Initial sample = [[3, 2, 3]]

100%|██████████| 2000/2000 [00:00<00:00, 17372.32it/s]

3

gradient= [-0.16633333 -0.028 0.19433333] w = [1. 1. 1.] w\_new= [0.99833667 0.99972 1.00194333]

gradient= [-0.16605611 -0.02795333 0.19400944] w = [0.99833667 0.99972 1.00194333] w\_new= [0.99667611 0.99944047 1.00388343]

gradient= [-0.16577935 -0.02790674 0.1936861 ] w = [0.99667611 0.99944047 1.00388343] w\_new= [0.99501831 0.9991614 1.00582029]

gradient= [-0.16550305 -0.02786023 0.19336329] w = [0.99501831 0.9991614 1.00582029] w\_new= [0.99336328 0.9988828 1.00775392]

gradient= [-0.16522721 -0.0278138 0.19304101] w = [0.99336328 0.9988828 1.00775392] w\_new= [0.99171101 0.99860466 1.00968433]

gradient= [-0.16495183 -0.02776744 0.19271928] w = [0.99171101 0.99860466 1.00968433] w\_new= [0.99006149 0.99832698 1.01161152]

gradient= [-0.16467692 -0.02772116 0.19239808] w = [0.99006149 0.99832698 1.01161152] w\_new= [0.98841472 0.99804977 1.01353551]

**Streaming output truncated to the last 5000 lines.**

gradient= [-0.00777473 -0.00170247 0.0094772 ] w = [0.01968005 0.82975785 2.1505621 ] w\_new= [0.0196023 0.82974083 2.15065687]

gradient= [-0.00776346 -0.00170039 0.00946385] w = [0.0196023 0.82974083 2.15065687] w\_new= [0.01952467 0.82972382 2.15075151]

gradient= [-0.00775221 -0.00169831 0.00945051] w = [0.01952467 0.82972382 2.15075151] w\_new= [0.01944715 0.82970684 2.15084602]

gradient= [-0.00774097 -0.00169623 0.0094372 ] w = [0.01944715 0.82970684 2.15084602] w\_new= [0.01936974 0.82968988 2.15094039]

gradient= [-0.00772975 -0.00169415 0.0094239 ] w = [0.01936974 0.82968988 2.15094039] w\_new= [0.01929244 0.82967294 2.15103463]

gradient= [-0.00771854 -0.00169208 0.00941062] w = [0.01929244 0.82967294 2.15103463] w\_new= [0.01921525 0.82965601 2.15112873]

gradient= [-0.00770736 -0.00169001 0.00939737] w = [0.01921525 0.82965601 2.15112873] w\_new= [0.01913818 0.82963911 2.15122271]

gradient= [-0.00769619 -0.00168794 0.00938413] w = [0.01913818 0.82963911 2.15122271] w\_new= [0.01906122 0.82962223 2.15131655]

gradient= [-0.00768503 -0.00168588 0.00937091] w = [0.01906122 0.82962223 2.15131655] w\_new= [0.01898437 0.82960538 2.15141026]

gradient= [-0.00767389 -0.00168381 0.00935771] w = [0.01898437 0.82960538 2.15141026] w\_new= [0.01890763 0.82958854 2.15150383]

gradient= [-0.00766277 -0.00168175 0.00934453] w = [0.01890763 0.82958854 2.15150383] w\_new= [0.018831 0.82957172 2.15159728]

gradient= [-0.00765167 -0.0016797 0.00933136] w = [0.018831 0.82957172 2.15159728] w\_new= [0.01875448 0.82955492 2.15169059]

gradient= [-0.00764058 -0.00167764 0.00931822] w = [0.01875448 0.82955492 2.15169059] w\_new= [0.01867808 0.82953815 2.15178378]

gradient= [-0.00762951 -0.00167559 0.0093051 ] w = [0.01867808 0.82953815 2.15178378] w\_new= [0.01860178 0.82952139 2.15187683]

gradient= [-0.00761845 -0.00167354 0.00929199] w = [0.01860178 0.82952139 2.15187683] w\_new= [0.0185256 0.82950466 2.15196975]

gradient= [-0.00760741 -0.00167149 0.00927891] w = [0.0185256 0.82950466 2.15196975] w\_new= [0.01844952 0.82948794 2.15206254]

gradient= [-0.00759639 -0.00166945 0.00926584] w = [0.01844952 0.82948794 2.15206254] w\_new= [0.01837356 0.82947125 2.15215519]

gradient= [-0.00758538 -0.00166741 0.00925279] w = [0.01837356 0.82947125 2.15215519] w\_new= [0.01829771 0.82945457 2.15224772]

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gradient= [-0.00755247 -0.0016613 0.00921376] w = [0.01814633 0.82942129 2.15243239] w\_new= [0.0180708 0.82940467 2.15252452]

gradient= [-0.00754152 -0.00165926 0.00920079] w = [0.0180708 0.82940467 2.15252452] w\_new= [0.01799539 0.82938808 2.15261653]

gradient= [-0.0075306 -0.00165723 0.00918783] w = [0.01799539 0.82938808 2.15261653] w\_new= [0.01792008 0.82937151 2.15270841]

gradient= [-0.00751969 -0.00165521 0.0091749 ] w = [0.01792008 0.82937151 2.15270841] w\_new= [0.01784489 0.82935496 2.15280016]

gradient= [-0.0075088 -0.00165318 0.00916198] w = [0.01784489 0.82935496 2.15280016] w\_new= [0.0177698 0.82933842 2.15289178]

gradient= [-0.00749792 -0.00165116 0.00914909] w = [0.0177698 0.82933842 2.15289178] w\_new= [0.01769482 0.82932191 2.15298327]

gradient= [-0.00748707 -0.00164914 0.00913621] w = [0.01769482 0.82932191 2.15298327] w\_new= [0.01761995 0.82930542 2.15307463]

gradient= [-0.00747622 -0.00164713 0.00912335] w = [0.01761995 0.82930542 2.15307463] w\_new= [0.01754519 0.82928895 2.15316587]

gradient= [-0.00746539 -0.00164511 0.00911051] w = [0.01754519 0.82928895 2.15316587] w\_new= [0.01747053 0.8292725 2.15325697]

gradient= [-0.00745458 -0.0016431 0.00909768] w = [0.01747053 0.8292725 2.15325697] w\_new= [0.01739599 0.82925607 2.15334795]

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gradient= [-0.00743301 -0.00163909 0.0090721 ] w = [0.01732155 0.82923966 2.1534388 ] w\_new= [0.01724722 0.82922327 2.15352952]

gradient= [-0.00742225 -0.00163708 0.00905933] w = [0.01724722 0.82922327 2.15352952] w\_new= [0.01717299 0.82920689 2.15362011]

gradient= [-0.0074115 -0.00163508 0.00904658] w = [0.01717299 0.82920689 2.15362011] w\_new= [0.01709888 0.82919054 2.15371058]

gradient= [-0.00740077 -0.00163308 0.00903385] w = [0.01709888 0.82919054 2.15371058] w\_new= [0.01702487 0.82917421 2.15380092]

gradient= [-0.00739005 -0.00163109 0.00902114] w = [0.01702487 0.82917421 2.15380092] w\_new= [0.01695097 0.8291579 2.15389113]

gradient= [-0.00737935 -0.00162909 0.00900845] w = [0.01695097 0.8291579 2.15389113] w\_new= [0.01687718 0.82914161 2.15398121]

gradient= [-0.00736867 -0.0016271 0.00899577] w = [0.01687718 0.82914161 2.15398121] w\_new= [0.01680349 0.82912534 2.15407117]

gradient= [-0.007358 -0.00162511 0.00898312] w = [0.01680349 0.82912534 2.15407117] w\_new= [0.01672991 0.82910909 2.154161 ]

gradient= [-0.00734735 -0.00162313 0.00897048] w = [0.01672991 0.82910909 2.154161 ] w\_new= [0.01665644 0.82909286 2.1542507 ]

gradient= [-0.00733672 -0.00162114 0.00895786] w = [0.01665644 0.82909286 2.1542507 ] w\_new= [0.01658307 0.82907665 2.15434028]

gradient= [-0.0073261 -0.00161916 0.00894526] w = [0.01658307 0.82907665 2.15434028] w\_new= [0.01650981 0.82906045 2.15442974]

gradient= [-0.00731549 -0.00161718 0.00893267] w = [0.01650981 0.82906045 2.15442974] w\_new= [0.01643665 0.82904428 2.15451906]

gradient= [-0.0073049 -0.00161521 0.00892011] w = [0.01643665 0.82904428 2.15451906] w\_new= [0.01636361 0.82902813 2.15460826]

gradient= [-0.00729433 -0.00161323 0.00890756] w = [0.01636361 0.82902813 2.15460826] w\_new= [0.01629066 0.829012 2.15469734]

gradient= [-0.00728377 -0.00161126 0.00889504] w = [0.01629066 0.829012 2.15469734] w\_new= [0.01621782 0.82899589 2.15478629]

gradient= [-0.00727323 -0.00160929 0.00888253] w = [0.01621782 0.82899589 2.15478629] w\_new= [0.01614509 0.82897979 2.15487511]

gradient= [-0.00726271 -0.00160733 0.00887003] w = [0.01614509 0.82897979 2.15487511] w\_new= [0.01607247 0.82896372 2.15496382]

gradient= [-0.0072522 -0.00160536 0.00885756] w = [0.01607247 0.82896372 2.15496382] w\_new= [0.01599994 0.82894767 2.15505239]

gradient= [-0.0072417 -0.0016034 0.0088451] w = [0.01599994 0.82894767 2.15505239] w\_new= [0.01592753 0.82893163 2.15514084]

gradient= [-0.00723122 -0.00160144 0.00883267] w = [0.01592753 0.82893163 2.15514084] w\_new= [0.01585521 0.82891562 2.15522917]

gradient= [-0.00722076 -0.00159948 0.00882025] w = [0.01585521 0.82891562 2.15522917] w\_new= [0.01578301 0.82889962 2.15531737]

gradient= [-0.00721031 -0.00159753 0.00880784] w = [0.01578301 0.82889962 2.15531737] w\_new= [0.0157109 0.82888365 2.15540545]

gradient= [-0.00719988 -0.00159558 0.00879546] w = [0.0157109 0.82888365 2.15540545] w\_new= [0.0156389 0.82886769 2.1554934 ]

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gradient= [-0.00717906 -0.00159168 0.00877075] w = [0.01556701 0.82885176 2.15558123] w\_new= [0.01549522 0.82883584 2.15566894]

gradient= [-0.00716868 -0.00158974 0.00875842] w = [0.01549522 0.82883584 2.15566894] w\_new= [0.01542353 0.82881994 2.15575653]

gradient= [-0.00715831 -0.0015878 0.0087461 ] w = [0.01542353 0.82881994 2.15575653] w\_new= [0.01535195 0.82880406 2.15584399]

gradient= [-0.00714795 -0.00158586 0.00873381] w = [0.01535195 0.82880406 2.15584399] w\_new= [0.01528047 0.8287882 2.15593133]

gradient= [-0.00713761 -0.00158392 0.00872153] w = [0.01528047 0.8287882 2.15593133] w\_new= [0.01520909 0.82877237 2.15601854]

gradient= [-0.00712729 -0.00158199 0.00870927] w = [0.01520909 0.82877237 2.15601854] w\_new= [0.01513782 0.82875655 2.15610563]

gradient= [-0.00711698 -0.00158005 0.00869703] w = [0.01513782 0.82875655 2.15610563] w\_new= [0.01506665 0.82874074 2.1561926 ]

gradient= [-0.00710668 -0.00157812 0.00868481] w = [0.01506665 0.82874074 2.1561926 ] w\_new= [0.01499558 0.82872496 2.15627945]

gradient= [-0.00709641 -0.0015762 0.0086726 ] w = [0.01499558 0.82872496 2.15627945] w\_new= [0.01492462 0.8287092 2.15636618]

gradient= [-0.00708614 -0.00157427 0.00866041] w = [0.01492462 0.8287092 2.15636618] w\_new= [0.01485376 0.82869346 2.15645278]

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gradient= [-0.00706566 -0.00157043 0.00863609] w = [0.014783 0.82867774 2.15653926] w\_new= [0.01471234 0.82866203 2.15662563]

gradient= [-0.00705544 -0.00156851 0.00862395] w = [0.01471234 0.82866203 2.15662563] w\_new= [0.01464179 0.82864635 2.15671187]

gradient= [-0.00704524 -0.0015666 0.00861184] w = [0.01464179 0.82864635 2.15671187] w\_new= [0.01457134 0.82863068 2.15679798]

gradient= [-0.00703505 -0.00156468 0.00859974] w = [0.01457134 0.82863068 2.15679798] w\_new= [0.01450099 0.82861503 2.15688398]

gradient= [-0.00702488 -0.00156277 0.00858765] w = [0.01450099 0.82861503 2.15688398] w\_new= [0.01443074 0.82859941 2.15696986]

gradient= [-0.00701472 -0.00156086 0.00857559] w = [0.01443074 0.82859941 2.15696986] w\_new= [0.01436059 0.8285838 2.15705561]

gradient= [-0.00700458 -0.00155896 0.00856354] w = [0.01436059 0.8285838 2.15705561] w\_new= [0.01429054 0.82856821 2.15714125]

gradient= [-0.00699446 -0.00155705 0.00855151] w = [0.01429054 0.82856821 2.15714125] w\_new= [0.0142206 0.82855264 2.15722676]

gradient= [-0.00698434 -0.00155515 0.0085395 ] w = [0.0142206 0.82855264 2.15722676] w\_new= [0.01415076 0.82853709 2.15731216]

gradient= [-0.00697425 -0.00155325 0.0085275 ] w = [0.01415076 0.82853709 2.15731216] w\_new= [0.01408101 0.82852155 2.15739743]

gradient= [-0.00696416 -0.00155136 0.00851552] w = [0.01408101 0.82852155 2.15739743] w\_new= [0.01401137 0.82850604 2.15748259]

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gradient= [-0.00694404 -0.00154757 0.00849162] w = [0.01394183 0.82849054 2.15756762] w\_new= [0.01387239 0.82847507 2.15765254]

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gradient= [-0.00692398 -0.0015438 0.00846778] w = [0.01380305 0.82845961 2.15773734] w\_new= [0.01373381 0.82844417 2.15782202]

gradient= [-0.00691398 -0.00154191 0.00845589] w = [0.01373381 0.82844417 2.15782202] w\_new= [0.01366467 0.82842875 2.15790657]

gradient= [-0.00690398 -0.00154003 0.00844401] w = [0.01366467 0.82842875 2.15790657] w\_new= [0.01359563 0.82841335 2.15799101]

gradient= [-0.00689401 -0.00153815 0.00843216] w = [0.01359563 0.82841335 2.15799101] w\_new= [0.01352669 0.82839797 2.15807534]

gradient= [-0.00688404 -0.00153627 0.00842032] w = [0.01352669 0.82839797 2.15807534] w\_new= [0.01345785 0.82838261 2.15815954]

gradient= [-0.00687409 -0.0015344 0.00840849] w = [0.01345785 0.82838261 2.15815954] w\_new= [0.01338911 0.82836727 2.15824362]

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gradient= [-0.00685424 -0.00153065 0.0083849 ] w = [0.01332047 0.82835194 2.15832759] w\_new= [0.01325193 0.82833663 2.15841144]

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gradient= [-0.00683445 -0.00152692 0.00836137] w = [0.01318348 0.82832135 2.15849517] w\_new= [0.01311514 0.82830608 2.15857878]

gradient= [-0.00682457 -0.00152506 0.00834963] w = [0.01311514 0.82830608 2.15857878] w\_new= [0.01304689 0.82829083 2.15866228]

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gradient= [-0.00680487 -0.00152134 0.0083262 ] w = [0.01297874 0.82827559 2.15874566] w\_new= [0.0129107 0.82826038 2.15882892]

gradient= [-0.00679504 -0.00151948 0.00831452] w = [0.0129107 0.82826038 2.15882892] w\_new= [0.01284275 0.82824519 2.15891207]

gradient= [-0.00678522 -0.00151763 0.00830285] w = [0.01284275 0.82824519 2.15891207] w\_new= [0.01277489 0.82823001 2.1589951 ]

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gradient= [-0.00676563 -0.00151393 0.00827955] w = [0.01270714 0.82821485 2.15907801] w\_new= [0.01263948 0.82819971 2.1591608 ]

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gradient= [-0.0067461 -0.00151023 0.00825633] w = [0.01257192 0.82818459 2.15924348] w\_new= [0.01250446 0.82816949 2.15932605]

gradient= [-0.00673635 -0.00150839 0.00824474] w = [0.01250446 0.82816949 2.15932605] w\_new= [0.0124371 0.82815441 2.15940849]

gradient= [-0.00672662 -0.00150655 0.00823317] w = [0.0124371 0.82815441 2.15940849] w\_new= [0.01236983 0.82813934 2.15949083]

gradient= [-0.00671691 -0.00150471 0.00822162] w = [0.01236983 0.82813934 2.15949083] w\_new= [0.01230266 0.82812429 2.15957304]

gradient= [-0.00670721 -0.00150288 0.00821008] w = [0.01230266 0.82812429 2.15957304] w\_new= [0.01223559 0.82810927 2.15965514]

gradient= [-0.00669752 -0.00150104 0.00819856] w = [0.01223559 0.82810927 2.15965514] w\_new= [0.01216862 0.82809425 2.15973713]

gradient= [-0.00668785 -0.00149921 0.00818706] w = [0.01216862 0.82809425 2.15973713] w\_new= [0.01210174 0.82807926 2.159819 ]

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gradient= [-0.00663011 -0.00148827 0.00811839] w = [0.01176879 0.82800458 2.16022663] w\_new= [0.01170249 0.82798969 2.16030782]

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gradient= [-0.00658239 -0.00147922 0.00806161] w = [0.01143824 0.82793034 2.16063141] w\_new= [0.01137242 0.82791555 2.16071203]

gradient= [-0.00657289 -0.00147742 0.0080503 ] w = [0.01137242 0.82791555 2.16071203] w\_new= [0.01130669 0.82790078 2.16079253]

gradient= [-0.0065634 -0.00147561 0.00803901] w = [0.01130669 0.82790078 2.16079253] w\_new= [0.01124106 0.82788602 2.16087292]

gradient= [-0.00655393 -0.00147381 0.00802774] w = [0.01124106 0.82788602 2.16087292] w\_new= [0.01117552 0.82787128 2.1609532 ]

gradient= [-0.00654447 -0.00147202 0.00801648] w = [0.01117552 0.82787128 2.1609532 ] w\_new= [0.01111007 0.82785656 2.16103337]

gradient= [-0.00653502 -0.00147022 0.00800524] w = [0.01111007 0.82785656 2.16103337] w\_new= [0.01104472 0.82784186 2.16111342]

gradient= [-0.00652559 -0.00146843 0.00799402] w = [0.01104472 0.82784186 2.16111342] w\_new= [0.01097947 0.82782718 2.16119336]

gradient= [-0.00651617 -0.00146664 0.00798281] w = [0.01097947 0.82782718 2.16119336] w\_new= [0.0109143 0.82781251 2.16127319]

gradient= [-0.00650677 -0.00146485 0.00797162] w = [0.0109143 0.82781251 2.16127319] w\_new= [0.01084924 0.82779786 2.1613529 ]

gradient= [-0.00649737 -0.00146306 0.00796044] w = [0.01084924 0.82779786 2.1613529 ] w\_new= [0.01078426 0.82778323 2.16143251]

gradient= [-0.006488 -0.00146128 0.00794928] w = [0.01078426 0.82778323 2.16143251] w\_new= [0.01071938 0.82776862 2.161512 ]

gradient= [-0.00647864 -0.0014595 0.00793813] w = [0.01071938 0.82776862 2.161512 ] w\_new= [0.0106546 0.82775402 2.16159138]

gradient= [-0.00646929 -0.00145772 0.00792701] w = [0.0106546 0.82775402 2.16159138] w\_new= [0.0105899 0.82773945 2.16167065]

gradient= [-0.00645995 -0.00145594 0.00791589] w = [0.0105899 0.82773945 2.16167065] w\_new= [0.0105253 0.82772489 2.16174981]

gradient= [-0.00645063 -0.00145417 0.0079048 ] w = [0.0105253 0.82772489 2.16174981] w\_new= [0.0104608 0.82771034 2.16182886]

gradient= [-0.00644132 -0.00145239 0.00789372] w = [0.0104608 0.82771034 2.16182886] w\_new= [0.01039638 0.82769582 2.16190779]

gradient= [-0.00643203 -0.00145062 0.00788265] w = [0.01039638 0.82769582 2.16190779] w\_new= [0.01033206 0.82768131 2.16198662]

gradient= [-0.00642275 -0.00144885 0.0078716 ] w = [0.01033206 0.82768131 2.16198662] w\_new= [0.01026784 0.82766683 2.16206534]

gradient= [-0.00641348 -0.00144709 0.00786057] w = [0.01026784 0.82766683 2.16206534] w\_new= [0.0102037 0.82765235 2.16214394]

gradient= [-0.00640423 -0.00144532 0.00784956] w = [0.0102037 0.82765235 2.16214394] w\_new= [0.01013966 0.8276379 2.16222244]

gradient= [-0.00639499 -0.00144356 0.00783855] w = [0.01013966 0.8276379 2.16222244] w\_new= [0.01007571 0.82762347 2.16230082]

gradient= [-0.00638577 -0.0014418 0.00782757] w = [0.01007571 0.82762347 2.16230082] w\_new= [0.01001185 0.82760905 2.1623791 ]

gradient= [-0.00637656 -0.00144005 0.0078166 ] w = [0.01001185 0.82760905 2.1623791 ] w\_new= [0.00994809 0.82759465 2.16245727]

gradient= [-0.00636736 -0.00143829 0.00780565] w = [0.00994809 0.82759465 2.16245727] w\_new= [0.00988441 0.82758026 2.16253532]

gradient= [-0.00635817 -0.00143654 0.00779471] w = [0.00988441 0.82758026 2.16253532] w\_new= [0.00982083 0.8275659 2.16261327]

gradient= [-0.006349 -0.00143479 0.00778379] w = [0.00982083 0.8275659 2.16261327] w\_new= [0.00975734 0.82755155 2.16269111]

gradient= [-0.00633984 -0.00143304 0.00777288] w = [0.00975734 0.82755155 2.16269111] w\_new= [0.00969394 0.82753722 2.16276884]

gradient= [-0.0063307 -0.00143129 0.00776199] w = [0.00969394 0.82753722 2.16276884] w\_new= [0.00963064 0.82752291 2.16284646]

gradient= [-0.00632157 -0.00142955 0.00775112] w = [0.00963064 0.82752291 2.16284646] w\_new= [0.00956742 0.82750861 2.16292397]

gradient= [-0.00631245 -0.0014278 0.00774026] w = [0.00956742 0.82750861 2.16292397] w\_new= [0.0095043 0.82749433 2.16300137]

gradient= [-0.00630335 -0.00142606 0.00772941] w = [0.0095043 0.82749433 2.16300137] w\_new= [0.00944126 0.82748007 2.16307866]

gradient= [-0.00629426 -0.00142433 0.00771859] w = [0.00944126 0.82748007 2.16307866] w\_new= [0.00937832 0.82746583 2.16315585]

gradient= [-0.00628518 -0.00142259 0.00770777] w = [0.00937832 0.82746583 2.16315585] w\_new= [0.00931547 0.8274516 2.16323293]

gradient= [-0.00627612 -0.00142086 0.00769698] w = [0.00931547 0.8274516 2.16323293] w\_new= [0.00925271 0.8274374 2.1633099 ]

gradient= [-0.00626707 -0.00141912 0.00768619] w = [0.00925271 0.8274374 2.1633099 ] w\_new= [0.00919004 0.82742321 2.16338676]

gradient= [-0.00625803 -0.00141739 0.00767543] w = [0.00919004 0.82742321 2.16338676] w\_new= [0.00912746 0.82740903 2.16346351]

gradient= [-0.00624901 -0.00141567 0.00766468] w = [0.00912746 0.82740903 2.16346351] w\_new= [0.00906497 0.82739487 2.16354016]

gradient= [-0.00624 -0.00141394 0.00765394] w = [0.00906497 0.82739487 2.16354016] w\_new= [0.00900257 0.82738073 2.1636167 ]

gradient= [-0.006231 -0.00141222 0.00764322] w = [0.00900257 0.82738073 2.1636167 ] w\_new= [0.00894026 0.82736661 2.16369313]

gradient= [-0.00622202 -0.0014105 0.00763252] w = [0.00894026 0.82736661 2.16369313] w\_new= [0.00887803 0.82735251 2.16376946]

gradient= [-0.00621305 -0.00140878 0.00762183] w = [0.00887803 0.82735251 2.16376946] w\_new= [0.0088159 0.82733842 2.16384568]

gradient= [-0.00620409 -0.00140706 0.00761116] w = [0.0088159 0.82733842 2.16384568] w\_new= [0.00875386 0.82732435 2.16392179]

gradient= [-0.00619515 -0.00140535 0.0076005 ] w = [0.00875386 0.82732435 2.16392179] w\_new= [0.00869191 0.8273103 2.16399779]

gradient= [-0.00618622 -0.00140364 0.00758986] w = [0.00869191 0.8273103 2.16399779] w\_new= [0.00863005 0.82729626 2.16407369]

gradient= [-0.0061773 -0.00140193 0.00757923] w = [0.00863005 0.82729626 2.16407369] w\_new= [0.00856828 0.82728224 2.16414948]

gradient= [-0.0061684 -0.00140022 0.00756862] w = [0.00856828 0.82728224 2.16414948] w\_new= [0.00850659 0.82726824 2.16422517]

gradient= [-0.00615951 -0.00139851 0.00755802] w = [0.00850659 0.82726824 2.16422517] w\_new= [0.008445 0.82725425 2.16430075]

gradient= [-0.00615063 -0.00139681 0.00754744] w = [0.008445 0.82725425 2.16430075] w\_new= [0.00838349 0.82724028 2.16437622]

gradient= [-0.00614177 -0.00139511 0.00753687] w = [0.00838349 0.82724028 2.16437622] w\_new= [0.00832207 0.82722633 2.16445159]

gradient= [-0.00613291 -0.00139341 0.00752632] w = [0.00832207 0.82722633 2.16445159] w\_new= [0.00826074 0.8272124 2.16452686]

gradient= [-0.00612408 -0.00139171 0.00751578] w = [0.00826074 0.8272124 2.16452686] w\_new= [0.0081995 0.82719848 2.16460201]

gradient= [-0.00611525 -0.00139001 0.00750526] w = [0.0081995 0.82719848 2.16460201] w\_new= [0.00813835 0.82718458 2.16467707]

gradient= [-0.00610644 -0.00138832 0.00749476] w = [0.00813835 0.82718458 2.16467707] w\_new= [0.00807729 0.8271707 2.16475201]

gradient= [-0.00609764 -0.00138663 0.00748427] w = [0.00807729 0.8271707 2.16475201] w\_new= [0.00801631 0.82715683 2.16482686]

gradient= [-0.00608885 -0.00138494 0.00747379] w = [0.00801631 0.82715683 2.16482686] w\_new= [0.00795542 0.82714298 2.16490159]

gradient= [-0.00608008 -0.00138325 0.00746333] w = [0.00795542 0.82714298 2.16490159] w\_new= [0.00789462 0.82712915 2.16497623]

gradient= [-0.00607132 -0.00138157 0.00745288] w = [0.00789462 0.82712915 2.16497623] w\_new= [0.00783391 0.82711534 2.16505076]

gradient= [-0.00606257 -0.00137989 0.00744245] w = [0.00783391 0.82711534 2.16505076] w\_new= [0.00777328 0.82710154 2.16512518]

gradient= [-0.00605383 -0.0013782 0.00743204] w = [0.00777328 0.82710154 2.16512518] w\_new= [0.00771274 0.82708775 2.1651995 ]

gradient= [-0.00604511 -0.00137653 0.00742164] w = [0.00771274 0.82708775 2.1651995 ] w\_new= [0.00765229 0.82707399 2.16527372]

gradient= [-0.0060364 -0.00137485 0.00741125] w = [0.00765229 0.82707399 2.16527372] w\_new= [0.00759193 0.82706024 2.16534783]

gradient= [-0.00602771 -0.00137317 0.00740088] w = [0.00759193 0.82706024 2.16534783] w\_new= [0.00753165 0.82704651 2.16542184]

gradient= [-0.00601902 -0.0013715 0.00739052] w = [0.00753165 0.82704651 2.16542184] w\_new= [0.00747146 0.82703279 2.16549574]

gradient= [-0.00601035 -0.00136983 0.00738018] w = [0.00747146 0.82703279 2.16549574] w\_new= [0.00741136 0.8270191 2.16556955]

gradient= [-0.00600169 -0.00136816 0.00736986] w = [0.00741136 0.8270191 2.16556955] w\_new= [0.00735134 0.82700541 2.16564324]

gradient= [-0.00599305 -0.0013665 0.00735955] w = [0.00735134 0.82700541 2.16564324] w\_new= [0.00729141 0.82699175 2.16571684]

gradient= [-0.00598442 -0.00136483 0.00734925] w = [0.00729141 0.82699175 2.16571684] w\_new= [0.00723157 0.8269781 2.16579033]

gradient= [-0.0059758 -0.00136317 0.00733897] w = [0.00723157 0.8269781 2.16579033] w\_new= [0.00717181 0.82696447 2.16586372]

gradient= [-0.00596719 -0.00136151 0.0073287 ] w = [0.00717181 0.82696447 2.16586372] w\_new= [0.00711214 0.82695085 2.16593701]

gradient= [-0.00595859 -0.00135985 0.00731845] w = [0.00711214 0.82695085 2.16593701] w\_new= [0.00705255 0.82693726 2.16601019]

gradient= [-0.00595001 -0.0013582 0.00730821] w = [0.00705255 0.82693726 2.16601019] w\_new= [0.00699305 0.82692367 2.16608328]

gradient= [-0.00594144 -0.00135654 0.00729799] w = [0.00699305 0.82692367 2.16608328] w\_new= [0.00693364 0.82691011 2.16615626]

gradient= [-0.00593289 -0.00135489 0.00728778] w = [0.00693364 0.82691011 2.16615626] w\_new= [0.00687431 0.82689656 2.16622913]

gradient= [-0.00592434 -0.00135324 0.00727758] w = [0.00687431 0.82689656 2.16622913] w\_new= [0.00681506 0.82688303 2.16630191]

gradient= [-0.00591581 -0.00135159 0.0072674 ] w = [0.00681506 0.82688303 2.16630191] w\_new= [0.00675591 0.82686951 2.16637458]

gradient= [-0.00590729 -0.00134995 0.00725724] w = [0.00675591 0.82686951 2.16637458] w\_new= [0.00669683 0.82685601 2.16644716]

gradient= [-0.00589879 -0.0013483 0.00724709] w = [0.00669683 0.82685601 2.16644716] w\_new= [0.00663785 0.82684253 2.16651963]

gradient= [-0.00589029 -0.00134666 0.00723695] w = [0.00663785 0.82684253 2.16651963] w\_new= [0.00657894 0.82682906 2.166592 ]

gradient= [-0.00588181 -0.00134502 0.00722683] w = [0.00657894 0.82682906 2.166592 ] w\_new= [0.00652012 0.82681561 2.16666426]

gradient= [-0.00587334 -0.00134338 0.00721673] w = [0.00652012 0.82681561 2.16666426] w\_new= [0.00646139 0.82680218 2.16673643]

gradient= [-0.00586489 -0.00134175 0.00720663] w = [0.00646139 0.82680218 2.16673643] w\_new= [0.00640274 0.82678876 2.1668085 ]

gradient= [-0.00585644 -0.00134011 0.00719656] w = [0.00640274 0.82678876 2.1668085 ] w\_new= [0.00634418 0.82677536 2.16688046]

gradient= [-0.00584801 -0.00133848 0.00718649] w = [0.00634418 0.82677536 2.16688046] w\_new= [0.0062857 0.82676197 2.16695233]

gradient= [-0.00583959 -0.00133685 0.00717644] w = [0.0062857 0.82676197 2.16695233] w\_new= [0.0062273 0.82674861 2.16702409]

gradient= [-0.00583119 -0.00133522 0.00716641] w = [0.0062273 0.82674861 2.16702409] w\_new= [0.00616899 0.82673525 2.16709576]

gradient= [-0.00582279 -0.0013336 0.00715639] w = [0.00616899 0.82673525 2.16709576] w\_new= [0.00611076 0.82672192 2.16716732]

gradient= [-0.00581441 -0.00133198 0.00714638] w = [0.00611076 0.82672192 2.16716732] w\_new= [0.00605262 0.8267086 2.16723878]

gradient= [-0.00580604 -0.00133035 0.00713639] w = [0.00605262 0.8267086 2.16723878] w\_new= [0.00599456 0.82669529 2.16731015]

gradient= [-0.00579768 -0.00132873 0.00712642] w = [0.00599456 0.82669529 2.16731015] w\_new= [0.00593658 0.82668201 2.16738141]

gradient= [-0.00578934 -0.00132712 0.00711645] w = [0.00593658 0.82668201 2.16738141] w\_new= [0.00587869 0.82666874 2.16745258]

gradient= [-0.005781 -0.0013255 0.0071065] w = [0.00587869 0.82666874 2.16745258] w\_new= [0.00582088 0.82665548 2.16752364]

gradient= [-0.00577268 -0.00132389 0.00709657] w = [0.00582088 0.82665548 2.16752364] w\_new= [0.00576315 0.82664224 2.16759461]

gradient= [-0.00576438 -0.00132228 0.00708665] w = [0.00576315 0.82664224 2.16759461] w\_new= [0.00570551 0.82662902 2.16766547]

gradient= [-0.00575608 -0.00132067 0.00707675] w = [0.00570551 0.82662902 2.16766547] w\_new= [0.00564795 0.82661581 2.16773624]

gradient= [-0.0057478 -0.00131906 0.00706685] w = [0.00564795 0.82661581 2.16773624] w\_new= [0.00559047 0.82660262 2.16780691]

gradient= [-0.00573952 -0.00131745 0.00705698] w = [0.00559047 0.82660262 2.16780691] w\_new= [0.00553307 0.82658945 2.16787748]

gradient= [-0.00573126 -0.00131585 0.00704711] w = [0.00553307 0.82658945 2.16787748] w\_new= [0.00547576 0.82657629 2.16794795]

gradient= [-0.00572302 -0.00131425 0.00703726] w = [0.00547576 0.82657629 2.16794795] w\_new= [0.00541853 0.82656315 2.16801832]

gradient= [-0.00571478 -0.00131265 0.00702743] w = [0.00541853 0.82656315 2.16801832] w\_new= [0.00536138 0.82655002 2.1680886 ]

gradient= [-0.00570656 -0.00131105 0.00701761] w = [0.00536138 0.82655002 2.1680886 ] w\_new= [0.00530432 0.82653691 2.16815877]

gradient= [-0.00569835 -0.00130945 0.0070078 ] w = [0.00530432 0.82653691 2.16815877] w\_new= [0.00524733 0.82652381 2.16822885]

gradient= [-0.00569015 -0.00130786 0.00699801] w = [0.00524733 0.82652381 2.16822885] w\_new= [0.00519043 0.82651074 2.16829883]

gradient= [-0.00568196 -0.00130627 0.00698823] w = [0.00519043 0.82651074 2.16829883] w\_new= [0.00513361 0.82649767 2.16836872]

gradient= [-0.00567379 -0.00130468 0.00697846] w = [0.00513361 0.82649767 2.16836872] w\_new= [0.00507687 0.82648463 2.1684385 ]

gradient= [-0.00566562 -0.00130309 0.00696871] w = [0.00507687 0.82648463 2.1684385 ] w\_new= [0.00502022 0.8264716 2.16850819]

gradient= [-0.00565747 -0.0013015 0.00695898] w = [0.00502022 0.8264716 2.16850819] w\_new= [0.00496364 0.82645858 2.16857778]

gradient= [-0.00564933 -0.00129992 0.00694925] w = [0.00496364 0.82645858 2.16857778] w\_new= [0.00490715 0.82644558 2.16864727]

gradient= [-0.00564121 -0.00129834 0.00693954] w = [0.00490715 0.82644558 2.16864727] w\_new= [0.00485074 0.8264326 2.16871666]

gradient= [-0.00563309 -0.00129676 0.00692985] w = [0.00485074 0.8264326 2.16871666] w\_new= [0.00479441 0.82641963 2.16878596]

gradient= [-0.00562499 -0.00129518 0.00692017] w = [0.00479441 0.82641963 2.16878596] w\_new= [0.00473816 0.82640668 2.16885516]

gradient= [-0.0056169 -0.0012936 0.0069105] w = [0.00473816 0.82640668 2.16885516] w\_new= [0.00468199 0.82639374 2.16892427]

gradient= [-0.00560882 -0.00129203 0.00690085] w = [0.00468199 0.82639374 2.16892427] w\_new= [0.0046259 0.82638082 2.16899328]

gradient= [-0.00560075 -0.00129046 0.00689121] w = [0.0046259 0.82638082 2.16899328] w\_new= [0.00456989 0.82636792 2.16906219]

gradient= [-0.0055927 -0.00128888 0.00688158] w = [0.00456989 0.82636792 2.16906219] w\_new= [0.00451396 0.82635503 2.16913101]

gradient= [-0.00558465 -0.00128732 0.00687197] w = [0.00451396 0.82635503 2.16913101] w\_new= [0.00445812 0.82634216 2.16919973]

gradient= [-0.00557662 -0.00128575 0.00686237] w = [0.00445812 0.82634216 2.16919973] w\_new= [0.00440235 0.8263293 2.16926835]

gradient= [-0.0055686 -0.00128419 0.00685279] w = [0.00440235 0.8263293 2.16926835] w\_new= [0.00434667 0.82631646 2.16933688]

gradient= [-0.00556059 -0.00128262 0.00684321] w = [0.00434667 0.82631646 2.16933688] w\_new= [0.00429106 0.82630363 2.16940531]

gradient= [-0.0055526 -0.00128106 0.00683366] w = [0.00429106 0.82630363 2.16940531] w\_new= [0.00423553 0.82629082 2.16947365]

gradient= [-0.00554461 -0.0012795 0.00682411] w = [0.00423553 0.82629082 2.16947365] w\_new= [0.00418009 0.82627802 2.16954189]

gradient= [-0.00553664 -0.00127795 0.00681458] w = [0.00418009 0.82627802 2.16954189] w\_new= [0.00412472 0.82626525 2.16961003]

gradient= [-0.00552868 -0.00127639 0.00680507] w = [0.00412472 0.82626525 2.16961003] w\_new= [0.00406943 0.82625248 2.16967808]

gradient= [-0.00552073 -0.00127484 0.00679556] w = [0.00406943 0.82625248 2.16967808] w\_new= [0.00401423 0.82623973 2.16974604]

gradient= [-0.00551279 -0.00127329 0.00678607] w = [0.00401423 0.82623973 2.16974604] w\_new= [0.0039591 0.826227 2.1698139]

gradient= [-0.00550486 -0.00127174 0.0067766 ] w = [0.0039591 0.826227 2.1698139] w\_new= [0.00390405 0.82621428 2.16988167]

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gradient= [-0.00543405 -0.00125788 0.00669192] w = [0.0034665 0.8261131 2.1704204] w\_new= [0.00341216 0.82610052 2.17048732]

gradient= [-0.00542624 -0.00125635 0.00668258] w = [0.00341216 0.82610052 2.17048732] w\_new= [0.0033579 0.82608796 2.17055414]

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gradient= [-0.00540287 -0.00125177 0.00665464] w = [0.00324961 0.82606288 2.17068752] w\_new= [0.00319558 0.82605036 2.17075406]

gradient= [-0.00539511 -0.00125024 0.00664535] w = [0.00319558 0.82605036 2.17075406] w\_new= [0.00314163 0.82603786 2.17082052]

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gradient= [-0.00493525 -0.00115938 0.00609463] w = [-6.97210610e-06 8.25303278e-01 2.17470369e+00] w\_new= [-5.63245935e-05 8.25291684e-01 2.17476464e+00]

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gradient= [-0.00462004 -0.00109628 0.00571633] w = [-0.00220545 0.8247843 2.17742116] w\_new= [-0.00225165 0.82477333 2.17747832]

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gradient= [-0.00458704 -0.00108963 0.00567668] w = [-0.00243579 0.82472962 2.17770618] w\_new= [-0.00248167 0.82471872 2.17776295]

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gradient= [-0.00457391 -0.00108699 0.0056609 ] w = [-0.00252747 0.82470784 2.17781963] w\_new= [-0.00257321 0.82469697 2.17787624]

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gradient= [-0.00456081 -0.00108435 0.00564516] w = [-0.00261888 0.82468611 2.17793277] w\_new= [-0.00266449 0.82467527 2.17798922]

gradient= [-0.00455428 -0.00108303 0.00563731] w = [-0.00266449 0.82467527 2.17798922] w\_new= [-0.00271003 0.82466444 2.1780456 ]

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gradient= [-0.00454124 -0.0010804 0.00562164] w = [-0.00275551 0.82465362 2.17810189] w\_new= [-0.00280092 0.82464281 2.17815811]

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gradient= [-0.00452824 -0.00107777 0.00560601] w = [-0.00284627 0.82463202 2.17821425] w\_new= [-0.00289155 0.82462125 2.17827031]

gradient= [-0.00452176 -0.00107646 0.00559822] w = [-0.00289155 0.82462125 2.17827031] w\_new= [-0.00293677 0.82461048 2.17832629]

gradient= [-0.00451528 -0.00107515 0.00559043] w = [-0.00293677 0.82461048 2.17832629] w\_new= [-0.00298192 0.82459973 2.17838219]

gradient= [-0.00450881 -0.00107384 0.00558266] w = [-0.00298192 0.82459973 2.17838219] w\_new= [-0.00302701 0.82458899 2.17843802]

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gradient= [-0.00446381 -0.00106474 0.00552855] w = [-0.00329619 0.82452483 2.17877135] w\_new= [-0.00334083 0.82451419 2.17882664]

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gradient= [-0.0044383 -0.00105957 0.00549787] w = [-0.00347436 0.82448232 2.17899203] w\_new= [-0.00351874 0.82447173 2.17904701]

gradient= [-0.00443194 -0.00105828 0.00549023] w = [-0.00351874 0.82447173 2.17904701] w\_new= [-0.00356306 0.82446114 2.17910192]

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gradient= [-0.00440662 -0.00105315 0.00545976] w = [-0.00369564 0.82442947 2.17926617] w\_new= [-0.0037397 0.82441894 2.17932076]

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gradient= [-0.00438772 -0.00104931 0.00543703] w = [-0.00382765 0.82439792 2.17942973] w\_new= [-0.00387152 0.82438742 2.1794841 ]

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gradient= [-0.0043564 -0.00104295 0.00539936] w = [-0.00404641 0.82434558 2.17970083] w\_new= [-0.00408997 0.82433515 2.17975482]

gradient= [-0.00435017 -0.00104168 0.00539185] w = [-0.00408997 0.82433515 2.17975482] w\_new= [-0.00413347 0.82432473 2.17980874]

gradient= [-0.00434394 -0.00104042 0.00538436] w = [-0.00413347 0.82432473 2.17980874] w\_new= [-0.00417691 0.82431433 2.17986258]

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gradient= [-0.0042213 -0.00101541 0.00523672] w = [-0.00499055 0.82411903 2.18087152] w\_new= [-0.00503276 0.82410888 2.18092388]

gradient= [-0.00421527 -0.00101418 0.00522944] w = [-0.00503276 0.82410888 2.18092388] w\_new= [-0.00507492 0.82409874 2.18097618]

gradient= [-0.00420924 -0.00101295 0.00522218] w = [-0.00507492 0.82409874 2.18097618] w\_new= [-0.00511701 0.82408861 2.1810284 ]

gradient= [-0.00420321 -0.00101171 0.00521493] w = [-0.00511701 0.82408861 2.1810284 ] w\_new= [-0.00515904 0.82407849 2.18108055]

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gradient= [-0.00414348 -0.00099948 0.00514297] w = [-0.00553463 0.82398799 2.18154665] w\_new= [-0.00557607 0.82397799 2.18159808]

gradient= [-0.00413756 -0.00099827 0.00513583] w = [-0.00557607 0.82397799 2.18159808] w\_new= [-0.00561744 0.82396801 2.18164943]

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gradient= [-0.00412573 -0.00099584 0.00512158] w = [-0.00565876 0.82395804 2.18170072] w\_new= [-0.00570002 0.82394808 2.18175194]

gradient= [-0.00411983 -0.00099463 0.00511447] w = [-0.00570002 0.82394808 2.18175194] w\_new= [-0.00574122 0.82393814 2.18180308]

gradient= [-0.00411394 -0.00099342 0.00510737] w = [-0.00574122 0.82393814 2.18180308] w\_new= [-0.00578236 0.8239282 2.18185415]

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gradient= [-0.00410219 -0.00099101 0.00509319] w = [-0.00582344 0.82391828 2.18190516] w\_new= [-0.00586446 0.82390837 2.18195609]

gradient= [-0.00409632 -0.0009898 0.00508612] w = [-0.00586446 0.82390837 2.18195609] w\_new= [-0.00590542 0.82389847 2.18200695]

gradient= [-0.00409046 -0.0009886 0.00507906] w = [-0.00590542 0.82389847 2.18200695] w\_new= [-0.00594633 0.82388859 2.18205774]

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gradient= [-0.00406712 -0.0009838 0.00505092] w = [-0.00606869 0.823859 2.18220969] w\_new= [-0.00610936 0.82384916 2.1822602 ]

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gradient= [-0.00398079 -0.00096602 0.0049468 ] w = [-0.00667269 0.82371268 2.18296001] w\_new= [-0.0067125 0.82370302 2.18300948]

gradient= [-0.0039751 -0.00096484 0.00493994] w = [-0.0067125 0.82370302 2.18300948] w\_new= [-0.00675225 0.82369337 2.18305888]

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gradient= [-0.00391306 -0.00095202 0.00486508] w = [-0.00714665 0.82359753 2.18354912] w\_new= [-0.00718578 0.82358801 2.18359777]

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gradient= [-0.00385201 -0.00093936 0.00479137] w = [-0.00757402 0.82349344 2.18408058] w\_new= [-0.00761254 0.82348405 2.1841285 ]

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gradient= [-0.00339229 -0.00084295 0.00423524] w = [-0.01079564 0.8227006 2.18809504] w\_new= [-0.01082956 0.82269217 2.18813739]

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gradient= [-0.00336338 -0.00083682 0.0042002 ] w = [-0.01099845 0.82265017 2.18834828] w\_new= [-0.01103208 0.82264181 2.18839028]

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gradient= [-0.00041707 -0.00013495 0.00055202] w = [-0.03181852 0.81693526 2.21488326] w\_new= [-0.03182269 0.81693391 2.21488878]

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gradient= [-0.0004159 -0.00013461 0.00055051] w = [-0.03182686 0.81693257 2.21489429] w\_new= [-0.03183102 0.81693122 2.2148998 ]

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gradient= [-0.00041242 -0.0001336 0.00054602] w = [-0.03185173 0.81692452 2.21492721] w\_new= [-0.03185585 0.81692318 2.21493267]

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gradient= [-0.00040213 -0.00013061 0.00053274] w = [-0.03192508 0.81690072 2.21502436] w\_new= [-0.0319291 0.81689942 2.21502969]

gradient= [-0.00040157 -0.00013045 0.00053202] w = [-0.0319291 0.81689942 2.21502969] w\_new= [-0.03193312 0.81689811 2.21503501]

gradient= [-0.000401 -0.00013029 0.00053129] w = [-0.03193312 0.81689811 2.21503501] w\_new= [-0.03193713 0.81689681 2.21504032]

gradient= [-0.00040044 -0.00013012 0.00053056] w = [-0.03193713 0.81689681 2.21504032] w\_new= [-0.03194113 0.81689551 2.21504563]

gradient= [-0.00039988 -0.00012996 0.00052984] w = [-0.03194113 0.81689551 2.21504563] w\_new= [-0.03194513 0.81689421 2.21505092]

gradient= [-0.00039932 -0.0001298 0.00052912] w = [-0.03194513 0.81689421 2.21505092] w\_new= [-0.03194913 0.81689291 2.21505622]

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gradient= [-0.00032859 -0.00010897 0.00043756] w = [-0.03244978 0.81672858 2.21572121] w\_new= [-0.03245307 0.81672749 2.21572558]

gradient= [-0.00032813 -0.00010883 0.00043696] w = [-0.03245307 0.81672749 2.21572558] w\_new= [-0.03245635 0.8167264 2.21572995]

gradient= [-0.00032767 -0.00010869 0.00043637] w = [-0.03245635 0.8167264 2.21572995] w\_new= [-0.03245963 0.81672531 2.21573432]

gradient= [-0.00032721 -0.00010856 0.00043577] w = [-0.03245963 0.81672531 2.21573432] w\_new= [-0.0324629 0.81672423 2.21573867]

gradient= [-0.00032676 -0.00010842 0.00043518] w = [-0.0324629 0.81672423 2.21573867] w\_new= [-0.03246617 0.81672314 2.21574303]

gradient= [-0.0003263 -0.00010828 0.00043458] w = [-0.03246617 0.81672314 2.21574303] w\_new= [-0.03246943 0.81672206 2.21574737]

gradient= [-0.00032584 -0.00010815 0.00043399] w = [-0.03246943 0.81672206 2.21574737] w\_new= [-0.03247269 0.81672098 2.21575171]

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gradient= [-0.00032493 -0.00010788 0.0004328 ] w = [-0.03247594 0.8167199 2.21575605] w\_new= [-0.03247919 0.81671882 2.21576037]

gradient= [-0.00032447 -0.00010774 0.00043221] w = [-0.03247919 0.81671882 2.21576037] w\_new= [-0.03248244 0.81671774 2.2157647 ]

gradient= [-0.00032402 -0.0001076 0.00043162] w = [-0.03248244 0.81671774 2.2157647 ] w\_new= [-0.03248568 0.81671666 2.21576901]

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gradient= [-0.00032311 -0.00010733 0.00043044] w = [-0.03248891 0.81671559 2.21577332] w\_new= [-0.03249214 0.81671452 2.21577763]

gradient= [-0.00032266 -0.0001072 0.00042986] w = [-0.03249214 0.81671452 2.21577763] w\_new= [-0.03249537 0.81671344 2.21578193]

gradient= [-0.00032221 -0.00010706 0.00042927] w = [-0.03249537 0.81671344 2.21578193] w\_new= [-0.03249859 0.81671237 2.21578622]

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gradient= [-0.00031861 -0.00010599 0.0004246 ] w = [-0.03252102 0.81670492 2.2158161 ] w\_new= [-0.03252421 0.81670386 2.21582035]

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gradient= [-0.00031506 -0.00010492 0.00041999] w = [-0.03254638 0.81669648 2.21584991] w\_new= [-0.03254954 0.81669543 2.21585411]

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gradient= [-0.00029914 -0.00010014 0.00039928] w = [-0.03266007 0.81665852 2.21600154] w\_new= [-0.03266306 0.81665752 2.21600554]

gradient= [-0.00029872 -0.00010001 0.00039873] w = [-0.03266306 0.81665752 2.21600554] w\_new= [-0.03266604 0.81665652 2.21600952]

gradient= [-2.98302169e-04 -9.98860070e-05 3.98188176e-04] w = [-0.03266604 0.81665652 2.21600952] w\_new= [-0.03266903 0.81665552 2.21601351]

gradient= [-2.97884421e-04 -9.97600075e-05 3.97644428e-04] w = [-0.03266903 0.81665552 2.21601351] w\_new= [-0.03267201 0.81665452 2.21601748]

gradient= [-2.97467259e-04 -9.96341642e-05 3.97101423e-04] w = [-0.03267201 0.81665452 2.21601748] w\_new= [-0.03267498 0.81665353 2.21602145]

gradient= [-2.97050684e-04 -9.95084769e-05 3.96559161e-04] w = [-0.03267498 0.81665353 2.21602145] w\_new= [-0.03267795 0.81665253 2.21602542]

gradient= [-2.96634694e-04 -9.93829454e-05 3.96017640e-04] w = [-0.03267795 0.81665253 2.21602542] w\_new= [-0.03268092 0.81665154 2.21602938]

gradient= [-2.96219289e-04 -9.92575697e-05 3.95476859e-04] w = [-0.03268092 0.81665154 2.21602938] w\_new= [-0.03268388 0.81665055 2.21603333]

gradient= [-2.95804468e-04 -9.91323494e-05 3.94936817e-04] w = [-0.03268388 0.81665055 2.21603333] w\_new= [-0.03268684 0.81664955 2.21603728]

gradient= [-2.95390230e-04 -9.90072843e-05 3.94397514e-04] w = [-0.03268684 0.81664955 2.21603728] w\_new= [-0.03268979 0.81664856 2.21604123]

gradient= [-2.94976574e-04 -9.88823744e-05 3.93858948e-04] w = [-0.03268979 0.81664856 2.21604123] w\_new= [-0.03269274 0.81664758 2.21604517]

gradient= [-2.94563499e-04 -9.87576193e-05 3.93321118e-04] w = [-0.03269274 0.81664758 2.21604517] w\_new= [-0.03269569 0.81664659 2.2160491 ]

gradient= [-2.94151005e-04 -9.86330190e-05 3.92784024e-04] w = [-0.03269569 0.81664659 2.2160491 ] w\_new= [-0.03269863 0.8166456 2.21605303]

gradient= [-2.93739090e-04 -9.85085732e-05 3.92247664e-04] w = [-0.03269863 0.8166456 2.21605303] w\_new= [-0.03270157 0.81664462 2.21605695]

gradient= [-2.93327755e-04 -9.83842817e-05 3.91712037e-04] w = [-0.03270157 0.81664462 2.21605695] w\_new= [-0.0327045 0.81664363 2.21606087]

gradient= [-2.92916997e-04 -9.82601444e-05 3.91177142e-04] w = [-0.0327045 0.81664363 2.21606087] w\_new= [-0.03270743 0.81664265 2.21606478]

gradient= [-2.92506817e-04 -9.81361611e-05 3.90642978e-04] w = [-0.03270743 0.81664265 2.21606478] w\_new= [-0.03271035 0.81664167 2.21606868]

gradient= [-2.92097214e-04 -9.80123315e-05 3.90109545e-04] w = [-0.03271035 0.81664167 2.21606868] w\_new= [-0.03271327 0.81664069 2.21607259]

gradient= [-2.91688186e-04 -9.78886555e-05 3.89576841e-04] w = [-0.03271327 0.81664069 2.21607259] w\_new= [-0.03271619 0.81663971 2.21607648]

gradient= [-2.91279733e-04 -9.77651329e-05 3.89044866e-04] w = [-0.03271619 0.81663971 2.21607648] w\_new= [-0.0327191 0.81663873 2.21608037]

gradient= [-2.90871853e-04 -9.76417635e-05 3.88513617e-04] w = [-0.0327191 0.81663873 2.21608037] w\_new= [-0.03272201 0.81663776 2.21608426]

gradient= [-2.90464548e-04 -9.75185472e-05 3.87983095e-04] w = [-0.03272201 0.81663776 2.21608426] w\_new= [-0.03272492 0.81663678 2.21608814]

gradient= [-2.90057814e-04 -9.73954837e-05 3.87453298e-04] w = [-0.03272492 0.81663678 2.21608814] w\_new= [-0.03272782 0.81663581 2.21609201]

gradient= [-2.89651652e-04 -9.72725729e-05 3.86924225e-04] w = [-0.03272782 0.81663581 2.21609201] w\_new= [-0.03273071 0.81663483 2.21609588]

gradient= [-2.89246061e-04 -9.71498145e-05 3.86395875e-04] w = [-0.03273071 0.81663483 2.21609588] w\_new= [-0.03273361 0.81663386 2.21609974]

gradient= [-2.88841040e-04 -9.70272084e-05 3.85868248e-04] w = [-0.03273361 0.81663386 2.21609974] w\_new= [-0.0327365 0.81663289 2.2161036 ]

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gradient= [-2.87629388e-04 -9.66603021e-05 3.84289690e-04] w = [-0.03274226 0.81663096 2.21611131] w\_new= [-0.03274514 0.81662999 2.21611515]

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gradient= [-2.86824456e-04 -9.64164559e-05 3.83240912e-04] w = [-0.03274801 0.81662902 2.21611899] w\_new= [-0.03275088 0.81662806 2.21612282]

gradient= [-2.86422838e-04 -9.62947597e-05 3.82717597e-04] w = [-0.03275088 0.81662806 2.21612282] w\_new= [-0.03275374 0.8166271 2.21612665]

gradient= [-2.86021784e-04 -9.61732145e-05 3.82194998e-04] w = [-0.03275374 0.8166271 2.21612665] w\_new= [-0.0327566 0.81662613 2.21613047]

gradient= [-2.85621294e-04 -9.60518201e-05 3.81673114e-04] w = [-0.0327566 0.81662613 2.21613047] w\_new= [-0.03275946 0.81662517 2.21613428]

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gradient= [-2.84423197e-04 -9.56885400e-05 3.80111736e-04] w = [-0.03276516 0.81662326 2.2161419 ] w\_new= [-0.032768 0.8166223 2.2161457]

gradient= [-2.84024953e-04 -9.55677470e-05 3.79592700e-04] w = [-0.032768 0.8166223 2.2161457] w\_new= [-0.03277084 0.81662134 2.2161495 ]

gradient= [-2.83627268e-04 -9.54471039e-05 3.79074372e-04] w = [-0.03277084 0.81662134 2.2161495 ] w\_new= [-0.03277368 0.81662039 2.21615329]

gradient= [-2.83230143e-04 -9.53266106e-05 3.78556754e-04] w = [-0.03277368 0.81662039 2.21615329] w\_new= [-0.03277651 0.81661944 2.21615708]

gradient= [-2.82833576e-04 -9.52062667e-05 3.78039842e-04] w = [-0.03277651 0.81661944 2.21615708] w\_new= [-0.03277934 0.81661848 2.21616086]

gradient= [-2.82437566e-04 -9.50860723e-05 3.77523638e-04] w = [-0.03277934 0.81661848 2.21616086] w\_new= [-0.03278216 0.81661753 2.21616463]

gradient= [-2.82042112e-04 -9.49660270e-05 3.77008139e-04] w = [-0.03278216 0.81661753 2.21616463] w\_new= [-0.03278498 0.81661658 2.2161684 ]

gradient= [-2.81647214e-04 -9.48461307e-05 3.76493345e-04] w = [-0.03278498 0.81661658 2.2161684 ] w\_new= [-0.0327878 0.81661564 2.21617217]

gradient= [-2.81252871e-04 -9.47263832e-05 3.75979254e-04] w = [-0.0327878 0.81661564 2.21617217] w\_new= [-0.03279061 0.81661469 2.21617593]

gradient= [-2.80859082e-04 -9.46067844e-05 3.75465866e-04] w = [-0.03279061 0.81661469 2.21617593] w\_new= [-0.03279342 0.81661374 2.21617968]

gradient= [-2.80465846e-04 -9.44873340e-05 3.74953180e-04] w = [-0.03279342 0.81661374 2.21617968] w\_new= [-0.03279623 0.8166128 2.21618343]

gradient= [-2.80073163e-04 -9.43680318e-05 3.74441195e-04] w = [-0.03279623 0.8166128 2.21618343] w\_new= [-0.03279903 0.81661185 2.21618717]

gradient= [-2.79681031e-04 -9.42488778e-05 3.73929909e-04] w = [-0.03279903 0.81661185 2.21618717] w\_new= [-0.03280182 0.81661091 2.21619091]

gradient= [-2.79289451e-04 -9.41298716e-05 3.73419323e-04] w = [-0.03280182 0.81661091 2.21619091] w\_new= [-0.03280462 0.81660997 2.21619465]

gradient= [-2.78898421e-04 -9.40110132e-05 3.72909434e-04] w = [-0.03280462 0.81660997 2.21619465] w\_new= [-0.03280741 0.81660903 2.21619838]

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gradient= [-2.77728623e-04 -9.36553226e-05 3.71383946e-04] w = [-0.03281297 0.81660715 2.21620582] w\_new= [-0.03281575 0.81660622 2.21620953]

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gradient= [-2.76951495e-04 -9.34189309e-05 3.70370426e-04] w = [-0.03281852 0.81660528 2.21621324] w\_new= [-0.03282129 0.81660435 2.21621695]

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gradient= [-2.75789893e-04 -9.30654427e-05 3.68855336e-04] w = [-0.03282682 0.81660248 2.21622434] w\_new= [-0.03282958 0.81660155 2.21622803]

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gradient= [-2.75018209e-04 -9.28305149e-05 3.67848724e-04] w = [-0.03283233 0.81660062 2.21623171] w\_new= [-0.03283508 0.81659969 2.21623539]

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gradient= [-2.72716133e-04 -9.21292241e-05 3.64845357e-04] w = [-0.03284878 0.81659507 2.21625371] w\_new= [-0.0328515 0.81659415 2.21625735]

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gradient= [-2.71192169e-04 -9.16645933e-05 3.62856762e-04] w = [-0.03285966 0.81659139 2.21626827] w\_new= [-0.03286237 0.81659047 2.2162719 ]

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gradient= [-2.70433395e-04 -9.14331427e-05 3.61866538e-04] w = [-0.03286508 0.81658956 2.21627552] w\_new= [-0.03286779 0.81658864 2.21627914]

gradient= [-2.70054807e-04 -9.13176329e-05 3.61372440e-04] w = [-0.03286779 0.81658864 2.21627914] w\_new= [-0.03287049 0.81658773 2.21628275]

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gradient= [-2.69299226e-04 -9.10870437e-05 3.60386270e-04] w = [-0.03287318 0.81658682 2.21628636] w\_new= [-0.03287588 0.81658591 2.21628997]

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gradient= [-2.67794423e-04 -9.06275813e-05 3.58422004e-04] w = [-0.03288393 0.81658318 2.21630075] w\_new= [-0.03288661 0.81658228 2.21630433]

gradient= [-2.67419542e-04 -9.05130723e-05 3.57932614e-04] w = [-0.03288661 0.81658228 2.21630433] w\_new= [-0.03288928 0.81658137 2.21630791]

gradient= [-2.67045188e-04 -9.03987055e-05 3.57443894e-04] w = [-0.03288928 0.81658137 2.21630791] w\_new= [-0.03289195 0.81658047 2.21631149]

gradient= [-2.66671360e-04 -9.02844808e-05 3.56955841e-04] w = [-0.03289195 0.81658047 2.21631149] w\_new= [-0.03289462 0.81657956 2.21631506]

gradient= [-2.66298057e-04 -9.01703979e-05 3.56468455e-04] w = [-0.03289462 0.81657956 2.21631506] w\_new= [-0.03289728 0.81657866 2.21631862]

gradient= [-2.65925279e-04 -9.00564569e-05 3.55981735e-04] w = [-0.03289728 0.81657866 2.21631862] w\_new= [-0.03289994 0.81657776 2.21632218]

gradient= [-2.65553024e-04 -8.99426574e-05 3.55495681e-04] w = [-0.03289994 0.81657776 2.21632218] w\_new= [-0.0329026 0.81657686 2.21632574]

gradient= [-2.65181292e-04 -8.98289993e-05 3.55010291e-04] w = [-0.0329026 0.81657686 2.21632574] w\_new= [-0.03290525 0.81657596 2.21632929]

gradient= [-2.64810082e-04 -8.97154824e-05 3.54525564e-04] w = [-0.03290525 0.81657596 2.21632929] w\_new= [-0.0329079 0.81657507 2.21633283]

gradient= [-2.64439394e-04 -8.96021066e-05 3.54041500e-04] w = [-0.0329079 0.81657507 2.21633283] w\_new= [-0.03291054 0.81657417 2.21633637]

gradient= [-2.64069226e-04 -8.94888717e-05 3.53558098e-04] w = [-0.03291054 0.81657417 2.21633637] w\_new= [-0.03291318 0.81657328 2.21633991]

gradient= [-2.63699578e-04 -8.93757775e-05 3.53075356e-04] w = [-0.03291318 0.81657328 2.21633991] w\_new= [-0.03291582 0.81657238 2.21634344]

gradient= [-2.63330450e-04 -8.92628238e-05 3.52593274e-04] w = [-0.03291582 0.81657238 2.21634344] w\_new= [-0.03291845 0.81657149 2.21634696]

gradient= [-2.62961840e-04 -8.91500105e-05 3.52111851e-04] w = [-0.03291845 0.81657149 2.21634696] w\_new= [-0.03292108 0.8165706 2.21635049]

gradient= [-2.62593748e-04 -8.90373374e-05 3.51631085e-04] w = [-0.03292108 0.8165706 2.21635049] w\_new= [-0.03292371 0.81656971 2.216354 ]

gradient= [-2.62226173e-04 -8.89248043e-05 3.51150977e-04] w = [-0.03292371 0.81656971 2.216354 ] w\_new= [-0.03292633 0.81656882 2.21635751]

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gradient= [-2.61492571e-04 -8.87001575e-05 3.50192728e-04] w = [-0.03292895 0.81656793 2.21636102] w\_new= [-0.03293157 0.81656704 2.21636452]

gradient= [-2.61126543e-04 -8.85880435e-05 3.49714586e-04] w = [-0.03293157 0.81656704 2.21636452] w\_new= [-0.03293418 0.81656616 2.21636802]

gradient= [-2.60761028e-04 -8.84760688e-05 3.49237097e-04] w = [-0.03293418 0.81656616 2.21636802] w\_new= [-0.03293678 0.81656527 2.21637151]

gradient= [-2.60396028e-04 -8.83642333e-05 3.48760261e-04] w = [-0.03293678 0.81656527 2.21637151] w\_new= [-0.03293939 0.81656439 2.216375 ]

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gradient= [-2.59667563e-04 -8.81409791e-05 3.47808543e-04] w = [-0.03294199 0.81656351 2.21637848] w\_new= [-0.03294459 0.81656263 2.21638196]

gradient= [-2.59304099e-04 -8.80295601e-05 3.47333659e-04] w = [-0.03294459 0.81656263 2.21638196] w\_new= [-0.03294718 0.81656175 2.21638543]

gradient= [-2.58941144e-04 -8.79182796e-05 3.46859424e-04] w = [-0.03294718 0.81656175 2.21638543] w\_new= [-0.03294977 0.81656087 2.2163889 ]

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gradient= [-2.58216764e-04 -8.76961335e-05 3.45912898e-04] w = [-0.03295235 0.81655999 2.21639237] w\_new= [-0.03295494 0.81655911 2.21639582]

gradient= [-2.57855337e-04 -8.75852675e-05 3.45440604e-04] w = [-0.03295494 0.81655911 2.21639582] w\_new= [-0.03295751 0.81655824 2.21639928]

gradient= [-2.57494417e-04 -8.74745393e-05 3.44968957e-04] w = [-0.03295751 0.81655824 2.21639928] w\_new= [-0.03296009 0.81655736 2.21640273]

gradient= [-2.57134005e-04 -8.73639488e-05 3.44497954e-04] w = [-0.03296009 0.81655736 2.21640273] w\_new= [-0.03296266 0.81655649 2.21640617]

gradient= [-2.56774098e-04 -8.72534958e-05 3.44027594e-04] w = [-0.03296266 0.81655649 2.21640617] w\_new= [-0.03296523 0.81655561 2.21640961]

gradient= [-2.56414697e-04 -8.71431801e-05 3.43557878e-04] w = [-0.03296523 0.81655561 2.21640961] w\_new= [-0.03296779 0.81655474 2.21641305]

gradient= [-2.56055801e-04 -8.70330015e-05 3.43088803e-04] w = [-0.03296779 0.81655474 2.21641305] w\_new= [-0.03297035 0.81655387 2.21641648]

gradient= [-2.55697409e-04 -8.69229600e-05 3.42620369e-04] w = [-0.03297035 0.81655387 2.21641648] w\_new= [-0.03297291 0.816553 2.21641991]

gradient= [-2.55339521e-04 -8.68130553e-05 3.42152576e-04] w = [-0.03297291 0.816553 2.21641991] w\_new= [-0.03297546 0.81655214 2.21642333]

gradient= [-2.54982135e-04 -8.67032872e-05 3.41685422e-04] w = [-0.03297546 0.81655214 2.21642333] w\_new= [-0.03297801 0.81655127 2.21642675]

gradient= [-2.54625251e-04 -8.65936556e-05 3.41218906e-04] w = [-0.03297801 0.81655127 2.21642675] w\_new= [-0.03298056 0.8165504 2.21643016]

gradient= [-2.54268868e-04 -8.64841604e-05 3.40753028e-04] w = [-0.03298056 0.8165504 2.21643016] w\_new= [-0.0329831 0.81654954 2.21643356]

gradient= [-2.53912985e-04 -8.63748013e-05 3.40287787e-04] w = [-0.0329831 0.81654954 2.21643356] w\_new= [-0.03298564 0.81654867 2.21643697]

gradient= [-2.53557603e-04 -8.62655782e-05 3.39823181e-04] w = [-0.03298564 0.81654867 2.21643697] w\_new= [-0.03298818 0.81654781 2.21644037]

gradient= [-2.53202719e-04 -8.61564909e-05 3.39359210e-04] w = [-0.03298818 0.81654781 2.21644037] w\_new= [-0.03299071 0.81654695 2.21644376]

gradient= [-2.52848334e-04 -8.60475393e-05 3.38895874e-04] w = [-0.03299071 0.81654695 2.21644376] w\_new= [-0.03299324 0.81654609 2.21644715]

gradient= [-2.52494447e-04 -8.59387231e-05 3.38433170e-04] w = [-0.03299324 0.81654609 2.21644715] w\_new= [-0.03299576 0.81654523 2.21645053]

gradient= [-2.52141057e-04 -8.58300423e-05 3.37971099e-04] w = [-0.03299576 0.81654523 2.21645053] w\_new= [-0.03299828 0.81654437 2.21645391]

gradient= [-2.51788163e-04 -8.57214967e-05 3.37509659e-04] w = [-0.03299828 0.81654437 2.21645391] w\_new= [-0.0330008 0.81654351 2.21645729]

gradient= [-2.51435764e-04 -8.56130861e-05 3.37048850e-04] w = [-0.0330008 0.81654351 2.21645729] w\_new= [-0.03300332 0.81654266 2.21646066]

gradient= [-2.51083861e-04 -8.55048103e-05 3.36588671e-04] w = [-0.03300332 0.81654266 2.21646066] w\_new= [-0.03300583 0.8165418 2.21646402]

gradient= [-2.50732451e-04 -8.53966692e-05 3.36129121e-04] w = [-0.03300583 0.8165418 2.21646402] w\_new= [-0.03300833 0.81654095 2.21646739]

gradient= [-2.50381536e-04 -8.52886626e-05 3.35670198e-04] w = [-0.03300833 0.81654095 2.21646739] w\_new= [-0.03301084 0.8165401 2.21647074]

gradient= [-2.50031113e-04 -8.51807903e-05 3.35211903e-04] w = [-0.03301084 0.8165401 2.21647074] w\_new= [-0.03301334 0.81653924 2.21647409]

gradient= [-2.49681182e-04 -8.50730522e-05 3.34754234e-04] w = [-0.03301334 0.81653924 2.21647409] w\_new= [-0.03301584 0.81653839 2.21647744]

gradient= [-2.49331742e-04 -8.49654482e-05 3.34297190e-04] w = [-0.03301584 0.81653839 2.21647744] w\_new= [-0.03301833 0.81653754 2.21648078]

gradient= [-2.48982794e-04 -8.48579780e-05 3.33840772e-04] w = [-0.03301833 0.81653754 2.21648078] w\_new= [-0.03302082 0.8165367 2.21648412]

gradient= [-2.48634335e-04 -8.47506414e-05 3.33384976e-04] w = [-0.03302082 0.8165367 2.21648412] w\_new= [-0.0330233 0.81653585 2.21648746]

gradient= [-2.48286366e-04 -8.46434385e-05 3.32929804e-04] w = [-0.0330233 0.81653585 2.21648746] w\_new= [-0.03302579 0.816535 2.21649079]

gradient= [-2.47938885e-04 -8.45363688e-05 3.32475254e-04] w = [-0.03302579 0.816535 2.21649079] w\_new= [-0.03302827 0.81653416 2.21649411]

gradient= [-2.47591892e-04 -8.44294324e-05 3.32021325e-04] w = [-0.03302827 0.81653416 2.21649411] w\_new= [-0.03303074 0.81653331 2.21649743]

gradient= [-2.47245387e-04 -8.43226290e-05 3.31568016e-04] w = [-0.03303074 0.81653331 2.21649743] w\_new= [-0.03303322 0.81653247 2.21650075]

gradient= [-2.46899368e-04 -8.42159585e-05 3.31115326e-04] w = [-0.03303322 0.81653247 2.21650075] w\_new= [-0.03303568 0.81653163 2.21650406]

gradient= [-2.46553835e-04 -8.41094207e-05 3.30663256e-04] w = [-0.03303568 0.81653163 2.21650406] w\_new= [-0.03303815 0.81653079 2.21650736]

gradient= [-2.46208787e-04 -8.40030155e-05 3.30211803e-04] w = [-0.03303815 0.81653079 2.21650736] w\_new= [-0.03304061 0.81652995 2.21651067]

gradient= [-2.45864224e-04 -8.38967427e-05 3.29760966e-04] w = [-0.03304061 0.81652995 2.21651067] w\_new= [-0.03304307 0.81652911 2.21651396]

gradient= [-2.45520144e-04 -8.37906021e-05 3.29310746e-04] w = [-0.03304307 0.81652911 2.21651396] w\_new= [-0.03304553 0.81652827 2.21651726]

gradient= [-2.45176548e-04 -8.36845935e-05 3.28861142e-04] w = [-0.03304553 0.81652827 2.21651726] w\_new= [-0.03304798 0.81652743 2.21652055]

gradient= [-2.44833434e-04 -8.35787169e-05 3.28412151e-04] w = [-0.03304798 0.81652743 2.21652055] w\_new= [-0.03305043 0.8165266 2.21652383]

gradient= [-2.44490803e-04 -8.34729720e-05 3.27963775e-04] w = [-0.03305043 0.8165266 2.21652383] w\_new= [-0.03305287 0.81652576 2.21652711]

gradient= [-2.44148652e-04 -8.33673588e-05 3.27516010e-04] w = [-0.03305287 0.81652576 2.21652711] w\_new= [-0.03305531 0.81652493 2.21653039]

gradient= [-2.43806981e-04 -8.32618769e-05 3.27068858e-04] w = [-0.03305531 0.81652493 2.21653039] w\_new= [-0.03305775 0.81652409 2.21653366]

gradient= [-2.43465791e-04 -8.31565263e-05 3.26622317e-04] w = [-0.03305775 0.81652409 2.21653366] w\_new= [-0.03306019 0.81652326 2.21653692]

gradient= [-2.43125079e-04 -8.30513068e-05 3.26176386e-04] w = [-0.03306019 0.81652326 2.21653692] w\_new= [-0.03306262 0.81652243 2.21654018]

gradient= [-2.42784846e-04 -8.29462183e-05 3.25731064e-04] w = [-0.03306262 0.81652243 2.21654018] w\_new= [-0.03306504 0.8165216 2.21654344]

gradient= [-2.42445091e-04 -8.28412605e-05 3.25286351e-04] w = [-0.03306504 0.8165216 2.21654344] w\_new= [-0.03306747 0.81652077 2.21654669]

gradient= [-2.42105813e-04 -8.27364334e-05 3.24842246e-04] w = [-0.03306747 0.81652077 2.21654669] w\_new= [-0.03306989 0.81651995 2.21654994]

gradient= [-2.41767011e-04 -8.26317368e-05 3.24398747e-04] w = [-0.03306989 0.81651995 2.21654994] w\_new= [-0.03307231 0.81651912 2.21655319]

gradient= [-2.41428685e-04 -8.25271704e-05 3.23955855e-04] w = [-0.03307231 0.81651912 2.21655319] w\_new= [-0.03307472 0.8165183 2.21655643]

gradient= [-2.41090833e-04 -8.24227342e-05 3.23513568e-04] w = [-0.03307472 0.8165183 2.21655643] w\_new= [-0.03307713 0.81651747 2.21655966]

gradient= [-2.40753457e-04 -8.23184281e-05 3.23071885e-04] w = [-0.03307713 0.81651747 2.21655966] w\_new= [-0.03307954 0.81651665 2.21656289]

gradient= [-2.40416554e-04 -8.22142517e-05 3.22630805e-04] w = [-0.03307954 0.81651665 2.21656289] w\_new= [-0.03308194 0.81651583 2.21656612]

gradient= [-2.40080124e-04 -8.21102050e-05 3.22190329e-04] w = [-0.03308194 0.81651583 2.21656612] w\_new= [-0.03308435 0.81651501 2.21656934]

gradient= [-2.39744166e-04 -8.20062879e-05 3.21750454e-04] w = [-0.03308435 0.81651501 2.21656934] w\_new= [-0.03308674 0.81651419 2.21657256]

gradient= [-2.3940868e-04 -8.1902500e-05 3.2131118e-04] w = [-0.03308674 0.81651419 2.21657256] w\_new= [-0.03308914 0.81651337 2.21657577]

gradient= [-2.39073665e-04 -8.17988414e-05 3.20872507e-04] w = [-0.03308914 0.81651337 2.21657577] w\_new= [-0.03309153 0.81651255 2.21657898]

gradient= [-2.38739121e-04 -8.16953119e-05 3.20434433e-04] w = [-0.03309153 0.81651255 2.21657898] w\_new= [-0.03309391 0.81651173 2.21658218]

gradient= [-2.38405046e-04 -8.15919112e-05 3.19996957e-04] w = [-0.03309391 0.81651173 2.21658218] w\_new= [-0.0330963 0.81651092 2.21658538]

gradient= [-2.38071440e-04 -8.14886393e-05 3.19560080e-04] w = [-0.0330963 0.81651092 2.21658538] w\_new= [-0.03309868 0.8165101 2.21658858]

gradient= [-2.37738303e-04 -8.13854959e-05 3.19123799e-04] w = [-0.03309868 0.8165101 2.21658858] w\_new= [-0.03310106 0.81650929 2.21659177]

gradient= [-2.37405634e-04 -8.12824810e-05 3.18688114e-04] w = [-0.03310106 0.81650929 2.21659177] w\_new= [-0.03310343 0.81650847 2.21659496]

gradient= [-2.37073431e-04 -8.11795943e-05 3.18253025e-04] w = [-0.03310343 0.81650847 2.21659496] w\_new= [-0.0331058 0.81650766 2.21659814]

gradient= [-2.36741695e-04 -8.10768357e-05 3.17818531e-04] w = [-0.0331058 0.81650766 2.21659814] w\_new= [-0.03310817 0.81650685 2.21660132]

gradient= [-2.36410425e-04 -8.09742051e-05 3.17384630e-04] w = [-0.03310817 0.81650685 2.21660132] w\_new= [-0.03311053 0.81650604 2.21660449]

gradient= [-2.36079619e-04 -8.08717022e-05 3.16951322e-04] w = [-0.03311053 0.81650604 2.21660449] w\_new= [-0.03311289 0.81650523 2.21660766]

gradient= [-2.35749279e-04 -8.07693270e-05 3.16518606e-04] w = [-0.03311289 0.81650523 2.21660766] w\_new= [-0.03311525 0.81650442 2.21661083]

gradient= [-2.35419402e-04 -8.06670793e-05 3.16086481e-04] w = [-0.03311525 0.81650442 2.21661083] w\_new= [-0.03311761 0.81650362 2.21661399]

gradient= [-2.35089988e-04 -8.05649589e-05 3.15654947e-04] w = [-0.03311761 0.81650362 2.21661399] w\_new= [-0.03311996 0.81650281 2.21661714]

gradient= [-2.34761036e-04 -8.04629656e-05 3.15224002e-04] w = [-0.03311996 0.81650281 2.21661714] w\_new= [-0.0331223 0.81650201 2.2166203 ]

gradient= [-2.34432547e-04 -8.03610994e-05 3.14793646e-04] w = [-0.0331223 0.81650201 2.2166203 ] w\_new= [-0.03312465 0.8165012 2.21662344]

gradient= [-2.34104518e-04 -8.02593600e-05 3.14363878e-04] w = [-0.03312465 0.8165012 2.21662344] w\_new= [-0.03312699 0.8165004 2.21662659]

gradient= [-2.33776951e-04 -8.01577474e-05 3.13934698e-04] w = [-0.03312699 0.8165004 2.21662659] w\_new= [-0.03312933 0.8164996 2.21662973]

gradient= [-2.33449843e-04 -8.00562613e-05 3.13506104e-04] w = [-0.03312933 0.8164996 2.21662973] w\_new= [-0.03313166 0.8164988 2.21663286]

gradient= [-2.33123194e-04 -7.99549015e-05 3.13078095e-04] w = [-0.03313166 0.8164988 2.21663286] w\_new= [-0.03313399 0.816498 2.21663599]

gradient= [-2.32797004e-04 -7.98536681e-05 3.12650672e-04] w = [-0.03313399 0.816498 2.21663599] w\_new= [-0.03313632 0.8164972 2.21663912]

gradient= [-2.32471271e-04 -7.97525607e-05 3.12223832e-04] w = [-0.03313632 0.8164972 2.21663912] w\_new= [-0.03313865 0.8164964 2.21664224]

gradient= [-2.32145997e-04 -7.96515792e-05 3.11797576e-04] w = [-0.03313865 0.8164964 2.21664224] w\_new= [-0.03314097 0.81649561 2.21664536]

gradient= [-2.31821178e-04 -7.95507235e-05 3.11371902e-04] w = [-0.03314097 0.81649561 2.21664536] w\_new= [-0.03314329 0.81649481 2.21664847]

gradient= [-2.31496816e-04 -7.94499935e-05 3.10946809e-04] w = [-0.03314329 0.81649481 2.21664847] w\_new= [-0.0331456 0.81649402 2.21665158]

gradient= [-2.31172909e-04 -7.93493889e-05 3.10522298e-04] w = [-0.0331456 0.81649402 2.21665158] w\_new= [-0.03314791 0.81649322 2.21665469]

gradient= [-2.30849457e-04 -7.92489096e-05 3.10098366e-04] w = [-0.03314791 0.81649322 2.21665469] w\_new= [-0.03315022 0.81649243 2.21665779]

gradient= [-2.30526459e-04 -7.91485555e-05 3.09675014e-04] w = [-0.03315022 0.81649243 2.21665779] w\_new= [-0.03315253 0.81649164 2.21666089]

gradient= [-2.30203914e-04 -7.90483264e-05 3.09252240e-04] w = [-0.03315253 0.81649164 2.21666089] w\_new= [-0.03315483 0.81649085 2.21666398]

gradient= [-2.29881822e-04 -7.89482222e-05 3.08830044e-04] w = [-0.03315483 0.81649085 2.21666398] w\_new= [-0.03315713 0.81649006 2.21666707]

gradient= [-2.29560182e-04 -7.88482427e-05 3.08408425e-04] w = [-0.03315713 0.81649006 2.21666707] w\_new= [-0.03315942 0.81648927 2.21667015]

gradient= [-2.29238994e-04 -7.87483877e-05 3.07987382e-04] w = [-0.03315942 0.81648927 2.21667015] w\_new= [-0.03316171 0.81648848 2.21667323]

gradient= [-2.28918257e-04 -7.86486572e-05 3.07566914e-04] w = [-0.03316171 0.81648848 2.21667323] w\_new= [-0.033164 0.8164877 2.21667631]

gradient= [-2.28597970e-04 -7.85490509e-05 3.07147021e-04] w = [-0.033164 0.8164877 2.21667631] w\_new= [-0.03316629 0.81648691 2.21667938]

gradient= [-2.28278132e-04 -7.84495687e-05 3.06727701e-04] w = [-0.03316629 0.81648691 2.21667938] w\_new= [-0.03316857 0.81648613 2.21668245]

gradient= [-2.27958744e-04 -7.83502104e-05 3.06308954e-04] w = [-0.03316857 0.81648613 2.21668245] w\_new= [-0.03317085 0.81648534 2.21668551]

gradient= [-2.27639804e-04 -7.82509760e-05 3.05890779e-04] w = [-0.03317085 0.81648534 2.21668551] w\_new= [-0.03317313 0.81648456 2.21668857]

gradient= [-2.27321311e-04 -7.81518652e-05 3.05473176e-04] w = [-0.03317313 0.81648456 2.21668857] w\_new= [-0.0331754 0.81648378 2.21669162]

gradient= [-2.27003266e-04 -7.80528779e-05 3.05056144e-04] w = [-0.0331754 0.81648378 2.21669162] w\_new= [-0.03317767 0.816483 2.21669467]

gradient= [-2.26685667e-04 -7.79540139e-05 3.04639681e-04] w = [-0.03317767 0.816483 2.21669467] w\_new= [-0.03317994 0.81648222 2.21669772]

gradient= [-2.26368514e-04 -7.78552731e-05 3.04223787e-04] w = [-0.03317994 0.81648222 2.21669772] w\_new= [-0.0331822 0.81648144 2.21670076]

gradient= [-2.26051806e-04 -7.77566554e-05 3.03808461e-04] w = [-0.0331822 0.81648144 2.21670076] w\_new= [-0.03318446 0.81648066 2.2167038 ]

gradient= [-2.25735542e-04 -7.76581606e-05 3.03393703e-04] w = [-0.03318446 0.81648066 2.2167038 ] w\_new= [-0.03318672 0.81647989 2.21670683]

gradient= [-2.25419723e-04 -7.75597885e-05 3.02979512e-04] w = [-0.03318672 0.81647989 2.21670683] w\_new= [-0.03318897 0.81647911 2.21670986]

gradient= [-2.25104347e-04 -7.74615390e-05 3.02565886e-04] w = [-0.03318897 0.81647911 2.21670986] w\_new= [-0.03319123 0.81647834 2.21671289]

gradient= [-2.24789414e-04 -7.73634119e-05 3.02152826e-04] w = [-0.03319123 0.81647834 2.21671289] w\_new= [-0.03319347 0.81647756 2.21671591]

gradient= [-2.24474922e-04 -7.72654072e-05 3.01740329e-04] w = [-0.03319347 0.81647756 2.21671591] w\_new= [-0.03319572 0.81647679 2.21671893]

gradient= [-2.24160872e-04 -7.71675246e-05 3.01328397e-04] w = [-0.03319572 0.81647679 2.21671893] w\_new= [-0.03319796 0.81647602 2.21672194]

gradient= [-2.23847263e-04 -7.70697640e-05 3.00917027e-04] w = [-0.03319796 0.81647602 2.21672194] w\_new= [-0.0332002 0.81647525 2.21672495]

gradient= [-2.23534094e-04 -7.69721252e-05 3.00506220e-04] w = [-0.0332002 0.81647525 2.21672495] w\_new= [-0.03320243 0.81647448 2.21672795]

gradient= [-2.23221365e-04 -7.68746081e-05 3.00095973e-04] w = [-0.03320243 0.81647448 2.21672795] w\_new= [-0.03320467 0.81647371 2.21673096]

gradient= [-2.22909075e-04 -7.67772126e-05 2.99686287e-04] w = [-0.03320467 0.81647371 2.21673096] w\_new= [-0.0332069 0.81647294 2.21673395]

gradient= [-2.22597223e-04 -7.66799385e-05 2.99277161e-04] w = [-0.0332069 0.81647294 2.21673395] w\_new= [-0.03320912 0.81647218 2.21673695]

gradient= [-2.22285808e-04 -7.65827856e-05 2.98868594e-04] w = [-0.03320912 0.81647218 2.21673695] w\_new= [-0.03321134 0.81647141 2.21673993]

gradient= [-2.21974831e-04 -7.64857539e-05 2.98460585e-04] w = [-0.03321134 0.81647141 2.21673993] w\_new= [-0.03321356 0.81647064 2.21674292]

gradient= [-2.21664291e-04 -7.63888431e-05 2.98053134e-04] w = [-0.03321356 0.81647064 2.21674292] w\_new= [-0.03321578 0.81646988 2.2167459 ]

gradient= [-2.21354186e-04 -7.62920531e-05 2.97646239e-04] w = [-0.03321578 0.81646988 2.2167459 ] w\_new= [-0.03321799 0.81646912 2.21674888]

gradient= [-2.21044516e-04 -7.61953837e-05 2.97239900e-04] w = [-0.03321799 0.81646912 2.21674888] w\_new= [-0.0332202 0.81646836 2.21675185]

gradient= [-2.20735281e-04 -7.60988349e-05 2.96834116e-04] w = [-0.0332202 0.81646836 2.21675185] w\_new= [-0.03322241 0.8164676 2.21675482]

gradient= [-2.20426480e-04 -7.60024065e-05 2.96428887e-04] w = [-0.03322241 0.8164676 2.21675482] w\_new= [-0.03322462 0.81646683 2.21675778]

gradient= [-2.20118113e-04 -7.59060982e-05 2.96024211e-04] w = [-0.03322462 0.81646683 2.21675778] w\_new= [-0.03322682 0.81646608 2.21676074]

gradient= [-2.19810178e-04 -7.58099101e-05 2.95620088e-04] w = [-0.03322682 0.81646608 2.21676074] w\_new= [-0.03322902 0.81646532 2.2167637 ]

gradient= [-2.19502676e-04 -7.57138419e-05 2.95216518e-04] w = [-0.03322902 0.81646532 2.2167637 ] w\_new= [-0.03323121 0.81646456 2.21676665]

gradient= [-2.19195605e-04 -7.56178934e-05 2.94813498e-04] w = [-0.03323121 0.81646456 2.21676665] w\_new= [-0.0332334 0.8164638 2.2167696]

gradient= [-2.18888965e-04 -7.55220646e-05 2.94411030e-04] w = [-0.0332334 0.8164638 2.2167696] w\_new= [-0.03323559 0.81646305 2.21677254]

gradient= [-2.18582756e-04 -7.54263553e-05 2.94009111e-04] w = [-0.03323559 0.81646305 2.21677254] w\_new= [-0.03323778 0.8164623 2.21677548]

gradient= [-2.18276976e-04 -7.53307653e-05 2.93607741e-04] w = [-0.03323778 0.8164623 2.21677548] w\_new= [-0.03323996 0.81646154 2.21677842]

gradient= [-2.17971625e-04 -7.52352945e-05 2.93206920e-04] w = [-0.03323996 0.81646154 2.21677842] w\_new= [-0.03324214 0.81646079 2.21678135]

gradient= [-2.17666703e-04 -7.51399427e-05 2.92806646e-04] w = [-0.03324214 0.81646079 2.21678135] w\_new= [-0.03324432 0.81646004 2.21678428]

gradient= [-2.17362209e-04 -7.50447099e-05 2.92406919e-04] w = [-0.03324432 0.81646004 2.21678428] w\_new= [-0.03324649 0.81645929 2.2167872 ]

gradient= [-2.17058142e-04 -7.49495958e-05 2.92007738e-04] w = [-0.03324649 0.81645929 2.2167872 ] w\_new= [-0.03324866 0.81645854 2.21679012]

gradient= [-2.16754502e-04 -7.48546004e-05 2.91609103e-04] w = [-0.03324866 0.81645854 2.21679012] w\_new= [-0.03325083 0.81645779 2.21679304]

gradient= [-2.16451289e-04 -7.47597234e-05 2.91211012e-04] w = [-0.03325083 0.81645779 2.21679304] w\_new= [-0.03325299 0.81645704 2.21679595]

gradient= [-2.16148500e-04 -7.46649647e-05 2.90813465e-04] w = [-0.03325299 0.81645704 2.21679595] w\_new= [-0.03325515 0.8164563 2.21679886]

gradient= [-2.15846137e-04 -7.45703242e-05 2.90416461e-04] w = [-0.03325515 0.8164563 2.21679886] w\_new= [-0.03325731 0.81645555 2.21680176]

gradient= [-2.15544198e-04 -7.44758018e-05 2.90020000e-04] w = [-0.03325731 0.81645555 2.21680176] w\_new= [-0.03325947 0.8164548 2.21680466]

gradient= [-2.15242683e-04 -7.43813972e-05 2.89624080e-04] w = [-0.03325947 0.8164548 2.21680466] w\_new= [-0.03326162 0.81645406 2.21680756]

gradient= [-2.14941591e-04 -7.42871104e-05 2.89228701e-04] w = [-0.03326162 0.81645406 2.21680756] w\_new= [-0.03326377 0.81645332 2.21681045]

gradient= [-2.14640921e-04 -7.41929412e-05 2.88833862e-04] w = [-0.03326377 0.81645332 2.21681045] w\_new= [-0.03326592 0.81645258 2.21681334]

gradient= [-2.14340673e-04 -7.40988894e-05 2.88439563e-04] w = [-0.03326592 0.81645258 2.21681334] w\_new= [-0.03326806 0.81645184 2.21681622]

gradient= [-2.14040847e-04 -7.40049550e-05 2.88045802e-04] w = [-0.03326806 0.81645184 2.21681622] w\_new= [-0.0332702 0.8164511 2.2168191]

gradient= [-2.13741442e-04 -7.39111377e-05 2.87652579e-04] w = [-0.0332702 0.8164511 2.2168191] w\_new= [-0.03327234 0.81645036 2.21682198]

gradient= [-2.13442456e-04 -7.38174375e-05 2.87259894e-04] w = [-0.03327234 0.81645036 2.21682198] w\_new= [-0.03327447 0.81644962 2.21682485]

gradient= [-2.13143891e-04 -7.37238541e-05 2.86867745e-04] w = [-0.03327447 0.81644962 2.21682485] w\_new= [-0.0332766 0.81644888 2.21682772]

gradient= [-2.12845744e-04 -7.36303875e-05 2.86476131e-04] w = [-0.0332766 0.81644888 2.21682772] w\_new= [-0.03327873 0.81644814 2.21683059]

gradient= [-2.12548016e-04 -7.35370375e-05 2.86085053e-04] w = [-0.03327873 0.81644814 2.21683059] w\_new= [-0.03328086 0.81644741 2.21683345]

gradient= [-2.12250705e-04 -7.34438040e-05 2.85694509e-04] w = [-0.03328086 0.81644741 2.21683345] w\_new= [-0.03328298 0.81644667 2.2168363 ]

gradient= [-2.11953812e-04 -7.33506867e-05 2.85304499e-04] w = [-0.03328298 0.81644667 2.2168363 ] w\_new= [-0.0332851 0.81644594 2.21683916]

gradient= [-2.11657335e-04 -7.32576857e-05 2.84915021e-04] w = [-0.0332851 0.81644594 2.21683916] w\_new= [-0.03328722 0.81644521 2.21684201]

gradient= [-2.11361275e-04 -7.31648007e-05 2.84526075e-04] w = [-0.03328722 0.81644521 2.21684201] w\_new= [-0.03328933 0.81644448 2.21684485]

gradient= [-2.11065630e-04 -7.30720315e-05 2.84137661e-04] w = [-0.03328933 0.81644448 2.21684485] w\_new= [-0.03329144 0.81644375 2.21684769]

gradient= [-2.10770399e-04 -7.29793781e-05 2.83749777e-04] w = [-0.03329144 0.81644375 2.21684769] w\_new= [-0.03329355 0.81644302 2.21685053]

gradient= [-2.10475583e-04 -7.28868404e-05 2.83362424e-04] w = [-0.03329355 0.81644302 2.21685053] w\_new= [-0.03329565 0.81644229 2.21685336]

gradient= [-2.10181181e-04 -7.27944180e-05 2.82975599e-04] w = [-0.03329565 0.81644229 2.21685336] w\_new= [-0.03329775 0.81644156 2.21685619]

gradient= [-2.09887192e-04 -7.27021110e-05 2.82589303e-04] w = [-0.03329775 0.81644156 2.21685619] w\_new= [-0.03329985 0.81644083 2.21685902]

gradient= [-2.09593615e-04 -7.26099192e-05 2.82203535e-04] w = [-0.03329985 0.81644083 2.21685902] w\_new= [-0.03330195 0.81644011 2.21686184]

gradient= [-2.09300451e-04 -7.25178425e-05 2.81818293e-04] w = [-0.03330195 0.81644011 2.21686184] w\_new= [-0.03330404 0.81643938 2.21686466]

gradient= [-2.09007698e-04 -7.24258806e-05 2.81433578e-04] w = [-0.03330404 0.81643938 2.21686466] w\_new= [-0.03330613 0.81643866 2.21686748]

gradient= [-2.08715355e-04 -7.23340335e-05 2.81049389e-04] w = [-0.03330613 0.81643866 2.21686748] w\_new= [-0.03330822 0.81643793 2.21687029]

gradient= [-2.08423423e-04 -7.22423010e-05 2.80665724e-04] w = [-0.03330822 0.81643793 2.21687029] w\_new= [-0.0333103 0.81643721 2.21687309]

gradient= [-2.08131900e-04 -7.21506830e-05 2.80282583e-04] w = [-0.0333103 0.81643721 2.21687309] w\_new= [-0.03331238 0.81643649 2.2168759 ]

gradient= [-2.07840787e-04 -7.20591793e-05 2.79899966e-04] w = [-0.03331238 0.81643649 2.2168759 ] w\_new= [-0.03331446 0.81643577 2.21687869]

gradient= [-2.07550082e-04 -7.19677898e-05 2.79517872e-04] w = [-0.03331446 0.81643577 2.21687869] w\_new= [-0.03331654 0.81643505 2.21688149]

gradient= [-2.07259785e-04 -7.18765144e-05 2.79136299e-04] w = [-0.03331654 0.81643505 2.21688149] w\_new= [-0.03331861 0.81643433 2.21688428]

gradient= [-2.06969895e-04 -7.17853530e-05 2.78755248e-04] w = [-0.03331861 0.81643433 2.21688428] w\_new= [-0.03332068 0.81643361 2.21688707]

gradient= [-2.06680412e-04 -7.16943052e-05 2.78374717e-04] w = [-0.03332068 0.81643361 2.21688707] w\_new= [-0.03332275 0.8164329 2.21688985]

gradient= [-2.06391335e-04 -7.16033712e-05 2.77994706e-04] w = [-0.03332275 0.8164329 2.21688985] w\_new= [-0.03332481 0.81643218 2.21689263]

gradient= [-2.06102664e-04 -7.15125506e-05 2.77615215e-04] w = [-0.03332481 0.81643218 2.21689263] w\_new= [-0.03332687 0.81643146 2.21689541]

gradient= [-2.05814398e-04 -7.14218434e-05 2.77236241e-04] w = [-0.03332687 0.81643146 2.21689541] w\_new= [-0.03332893 0.81643075 2.21689818]

gradient= [-2.05526536e-04 -7.13312495e-05 2.76857786e-04] w = [-0.03332893 0.81643075 2.21689818] w\_new= [-0.03333099 0.81643004 2.21690095]

gradient= [-2.05239079e-04 -7.12407686e-05 2.76479847e-04] w = [-0.03333099 0.81643004 2.21690095] w\_new= [-0.03333304 0.81642932 2.21690371]

gradient= [-2.04952024e-04 -7.11504006e-05 2.76102425e-04] w = [-0.03333304 0.81642932 2.21690371] w\_new= [-0.03333509 0.81642861 2.21690647]

gradient= [-2.04665373e-04 -7.10601455e-05 2.75725518e-04] w = [-0.03333509 0.81642861 2.21690647] w\_new= [-0.03333713 0.8164279 2.21690923]

gradient= [-2.04379123e-04 -7.09700031e-05 2.75349126e-04] w = [-0.03333713 0.8164279 2.21690923] w\_new= [-0.03333918 0.81642719 2.21691199]

gradient= [-2.04093275e-04 -7.08799732e-05 2.74973249e-04] w = [-0.03333918 0.81642719 2.21691199] w\_new= [-0.03334122 0.81642648 2.21691474]

gradient= [-2.03807829e-04 -7.07900556e-05 2.74597884e-04] w = [-0.03334122 0.81642648 2.21691474] w\_new= [-0.03334326 0.81642578 2.21691748]

gradient= [-2.03522783e-04 -7.07002504e-05 2.74223033e-04] w = [-0.03334326 0.81642578 2.21691748] w\_new= [-0.03334529 0.81642507 2.21692022]

gradient= [-2.03238136e-04 -7.06105573e-05 2.73848694e-04] w = [-0.03334529 0.81642507 2.21692022] w\_new= [-0.03334733 0.81642436 2.21692296]

gradient= [-2.02953889e-04 -7.05209761e-05 2.73474866e-04] w = [-0.03334733 0.81642436 2.21692296] w\_new= [-0.03334935 0.81642366 2.2169257 ]

gradient= [-2.02670041e-04 -7.04315068e-05 2.73101548e-04] w = [-0.03334935 0.81642366 2.2169257 ] w\_new= [-0.03335138 0.81642295 2.21692843]

gradient= [-2.02386592e-04 -7.03421492e-05 2.72728741e-04] w = [-0.03335138 0.81642295 2.21692843] w\_new= [-0.03335341 0.81642225 2.21693116]

gradient= [-2.02103540e-04 -7.02529032e-05 2.72356443e-04] w = [-0.03335341 0.81642225 2.21693116] w\_new= [-0.03335543 0.81642155 2.21693388]

gradient= [-2.01820885e-04 -7.01637686e-05 2.71984653e-04] w = [-0.03335543 0.81642155 2.21693388] w\_new= [-0.03335744 0.81642085 2.2169366 ]

gradient= [-2.01538626e-04 -7.00747453e-05 2.71613371e-04] w = [-0.03335744 0.81642085 2.2169366 ] w\_new= [-0.03335946 0.81642015 2.21693931]

gradient= [-2.01256764e-04 -6.99858332e-05 2.71242597e-04] w = [-0.03335946 0.81642015 2.21693931] w\_new= [-0.03336147 0.81641945 2.21694203]

gradient= [-2.00975297e-04 -6.98970322e-05 2.70872329e-04] w = [-0.03336147 0.81641945 2.21694203] w\_new= [-0.03336348 0.81641875 2.21694474]

gradient= [-2.00694225e-04 -6.98083420e-05 2.70502567e-04] w = [-0.03336348 0.81641875 2.21694474] w\_new= [-0.03336549 0.81641805 2.21694744]

gradient= [-2.00413547e-04 -6.97197625e-05 2.70133310e-04] w = [-0.03336549 0.81641805 2.21694744] w\_new= [-0.03336749 0.81641735 2.21695014]

gradient= [-2.00133263e-04 -6.96312937e-05 2.69764557e-04] w = [-0.03336749 0.81641735 2.21695014] w\_new= [-0.03336949 0.81641665 2.21695284]

gradient= [-1.99853373e-04 -6.95429354e-05 2.69396308e-04] w = [-0.03336949 0.81641665 2.21695284] w\_new= [-0.03337149 0.81641596 2.21695553]

gradient= [-1.99573875e-04 -6.94546874e-05 2.69028562e-04] w = [-0.03337149 0.81641596 2.21695553] w\_new= [-0.03337349 0.81641526 2.21695822]

gradient= [-1.99294769e-04 -6.93665497e-05 2.68661318e-04] w = [-0.03337349 0.81641526 2.21695822] w\_new= [-0.03337548 0.81641457 2.21696091]

gradient= [-1.99016054e-04 -6.92785220e-05 2.68294576e-04] w = [-0.03337548 0.81641457 2.21696091] w\_new= [-0.03337747 0.81641388 2.21696359]

gradient= [-1.98737731e-04 -6.91906043e-05 2.67928335e-04] w = [-0.03337747 0.81641388 2.21696359] w\_new= [-0.03337946 0.81641319 2.21696627]

gradient= [-1.98459798e-04 -6.91027964e-05 2.67562595e-04] w = [-0.03337946 0.81641319 2.21696627] w\_new= [-0.03338144 0.8164125 2.21696895]

gradient= [-1.98182256e-04 -6.90150981e-05 2.67197354e-04] w = [-0.03338144 0.8164125 2.21696895] w\_new= [-0.03338343 0.81641181 2.21697162]

gradient= [-1.97905102e-04 -6.89275094e-05 2.66832611e-04] w = [-0.03338343 0.81641181 2.21697162] w\_new= [-0.0333854 0.81641112 2.21697429]

gradient= [-1.97628337e-04 -6.88400302e-05 2.66468367e-04] w = [-0.0333854 0.81641112 2.21697429] w\_new= [-0.03338738 0.81641043 2.21697695]

gradient= [-1.97351961e-04 -6.87526601e-05 2.66104621e-04] w = [-0.03338738 0.81641043 2.21697695] w\_new= [-0.03338935 0.81640974 2.21697961]

gradient= [-1.97075972e-04 -6.86653993e-05 2.65741372e-04] w = [-0.03338935 0.81640974 2.21697961] w\_new= [-0.03339133 0.81640905 2.21698227]

gradient= [-1.96800371e-04 -6.85782474e-05 2.65378618e-04] w = [-0.03339133 0.81640905 2.21698227] w\_new= [-0.03339329 0.81640837 2.21698493]

gradient= [-1.96525156e-04 -6.84912044e-05 2.65016360e-04] w = [-0.03339329 0.81640837 2.21698493] w\_new= [-0.03339526 0.81640768 2.21698758]

gradient= [-1.96250327e-04 -6.84042702e-05 2.64654597e-04] w = [-0.03339526 0.81640768 2.21698758] w\_new= [-0.03339722 0.816407 2.21699022]

gradient= [-1.95975884e-04 -6.83174445e-05 2.64293329e-04] w = [-0.03339722 0.816407 2.21699022] w\_new= [-0.03339918 0.81640632 2.21699287]

gradient= [-1.95701826e-04 -6.82307274e-05 2.63932553e-04] w = [-0.03339918 0.81640632 2.21699287] w\_new= [-0.03340114 0.81640563 2.2169955 ]

gradient= [-1.95428152e-04 -6.81441186e-05 2.63572271e-04] w = [-0.03340114 0.81640563 2.2169955 ] w\_new= [-0.03340309 0.81640495 2.21699814]

gradient= [-1.95154862e-04 -6.80576180e-05 2.63212480e-04] w = [-0.03340309 0.81640495 2.21699814] w\_new= [-0.03340504 0.81640427 2.21700077]

gradient= [-1.94881956e-04 -6.79712254e-05 2.62853181e-04] w = [-0.03340504 0.81640427 2.21700077] w\_new= [-0.03340699 0.81640359 2.2170034 ]

gradient= [-1.94609432e-04 -6.78849408e-05 2.62494373e-04] w = [-0.03340699 0.81640359 2.2170034 ] w\_new= [-0.03340894 0.81640291 2.21700603]

gradient= [-1.94337291e-04 -6.77987640e-05 2.62136055e-04] w = [-0.03340894 0.81640291 2.21700603] w\_new= [-0.03341088 0.81640223 2.21700865]

gradient= [-1.94065531e-04 -6.77126950e-05 2.61778226e-04] w = [-0.03341088 0.81640223 2.21700865] w\_new= [-0.03341282 0.81640156 2.21701127]

gradient= [-1.93794153e-04 -6.76267334e-05 2.61420886e-04] w = [-0.03341282 0.81640156 2.21701127] w\_new= [-0.03341476 0.81640088 2.21701388]

gradient= [-1.93523155e-04 -6.75408793e-05 2.61064035e-04] w = [-0.03341476 0.81640088 2.21701388] w\_new= [-0.0334167 0.81640021 2.21701649]

gradient= [-1.93252538e-04 -6.74551324e-05 2.60707670e-04] w = [-0.0334167 0.81640021 2.21701649] w\_new= [-0.03341863 0.81639953 2.2170191 ]

gradient= [-1.92982300e-04 -6.73694927e-05 2.60351793e-04] w = [-0.03341863 0.81639953 2.2170191 ] w\_new= [-0.03342056 0.81639886 2.2170217 ]

gradient= [-1.92712441e-04 -6.72839600e-05 2.59996401e-04] w = [-0.03342056 0.81639886 2.2170217 ] w\_new= [-0.03342249 0.81639818 2.2170243 ]

gradient= [-1.92442961e-04 -6.71985343e-05 2.59641495e-04] w = [-0.03342249 0.81639818 2.2170243 ] w\_new= [-0.03342441 0.81639751 2.2170269 ]

gradient= [-1.92173859e-04 -6.71132152e-05 2.59287074e-04] w = [-0.03342441 0.81639751 2.2170269 ] w\_new= [-0.03342633 0.81639684 2.21702949]

gradient= [-1.91905134e-04 -6.70280028e-05 2.58933137e-04] w = [-0.03342633 0.81639684 2.21702949] w\_new= [-0.03342825 0.81639617 2.21703208]

gradient= [-1.91636786e-04 -6.69428970e-05 2.58579683e-04] w = [-0.03342825 0.81639617 2.21703208] w\_new= [-0.03343017 0.8163955 2.21703466]

gradient= [-1.91368815e-04 -6.68578974e-05 2.58226712e-04] w = [-0.03343017 0.8163955 2.21703466] w\_new= [-0.03343208 0.81639483 2.21703725]

gradient= [-1.91101220e-04 -6.67730041e-05 2.57874224e-04] w = [-0.03343208 0.81639483 2.21703725] w\_new= [-0.03343399 0.81639417 2.21703983]

gradient= [-1.90833999e-04 -6.66882170e-05 2.57522216e-04] w = [-0.03343399 0.81639417 2.21703983] w\_new= [-0.0334359 0.8163935 2.2170424]

gradient= [-1.90567154e-04 -6.66035358e-05 2.57170690e-04] w = [-0.0334359 0.8163935 2.2170424] w\_new= [-0.03343781 0.81639283 2.21704497]

gradient= [-1.90300683e-04 -6.65189604e-05 2.56819644e-04] w = [-0.03343781 0.81639283 2.21704497] w\_new= [-0.03343971 0.81639217 2.21704754]

gradient= [-1.90034586e-04 -6.64344908e-05 2.56469077e-04] w = [-0.03343971 0.81639217 2.21704754] w\_new= [-0.03344161 0.8163915 2.21705011]

gradient= [-1.89768862e-04 -6.63501267e-05 2.56118989e-04] w = [-0.03344161 0.8163915 2.21705011] w\_new= [-0.03344351 0.81639084 2.21705267]

gradient= [-1.89503511e-04 -6.62658681e-05 2.55769379e-04] w = [-0.03344351 0.81639084 2.21705267] w\_new= [-0.0334454 0.81639018 2.21705522]

gradient= [-1.89238532e-04 -6.61817149e-05 2.55420247e-04] w = [-0.0334454 0.81639018 2.21705522] w\_new= [-0.03344729 0.81638952 2.21705778]

gradient= [-1.88973924e-04 -6.60976668e-05 2.55071591e-04] w = [-0.03344729 0.81638952 2.21705778] w\_new= [-0.03344918 0.81638885 2.21706033]

gradient= [-1.88709688e-04 -6.60137238e-05 2.54723412e-04] w = [-0.03344918 0.81638885 2.21706033] w\_new= [-0.03345107 0.81638819 2.21706288]

gradient= [-1.88445823e-04 -6.59298858e-05 2.54375708e-04] w = [-0.03345107 0.81638819 2.21706288] w\_new= [-0.03345296 0.81638753 2.21706542]

gradient= [-1.88182327e-04 -6.58461525e-05 2.54028480e-04] w = [-0.03345296 0.81638753 2.21706542] w\_new= [-0.03345484 0.81638688 2.21706796]

gradient= [-1.87919201e-04 -6.57625240e-05 2.53681725e-04] w = [-0.03345484 0.81638688 2.21706796] w\_new= [-0.03345672 0.81638622 2.2170705 ]

gradient= [-1.87656445e-04 -6.56790000e-05 2.53335445e-04] w = [-0.03345672 0.81638622 2.2170705 ] w\_new= [-0.03345859 0.81638556 2.21707303]

gradient= [-1.87394056e-04 -6.55955804e-05 2.52989637e-04] w = [-0.03345859 0.81638556 2.21707303] w\_new= [-0.03346047 0.81638491 2.21707556]

gradient= [-1.87132036e-04 -6.55122652e-05 2.52644301e-04] w = [-0.03346047 0.81638491 2.21707556] w\_new= [-0.03346234 0.81638425 2.21707809]

gradient= [-1.86870383e-04 -6.54290541e-05 2.52299437e-04] w = [-0.03346234 0.81638425 2.21707809] w\_new= [-0.03346421 0.8163836 2.21708061]

gradient= [-1.86609098e-04 -6.53459471e-05 2.51955045e-04] w = [-0.03346421 0.8163836 2.21708061] w\_new= [-0.03346607 0.81638294 2.21708313]

gradient= [-1.86348178e-04 -6.52629439e-05 2.51611122e-04] w = [-0.03346607 0.81638294 2.21708313] w\_new= [-0.03346794 0.81638229 2.21708565]

gradient= [-1.86087625e-04 -6.51800446e-05 2.51267670e-04] w = [-0.03346794 0.81638229 2.21708565] w\_new= [-0.0334698 0.81638164 2.21708816]

gradient= [-1.85827437e-04 -6.50972490e-05 2.50924686e-04] w = [-0.0334698 0.81638164 2.21708816] w\_new= [-0.03347166 0.81638099 2.21709067]

gradient= [-1.85567614e-04 -6.50145568e-05 2.50582171e-04] w = [-0.03347166 0.81638099 2.21709067] w\_new= [-0.03347351 0.81638034 2.21709317]

gradient= [-1.85308156e-04 -6.49319681e-05 2.50240124e-04] w = [-0.03347351 0.81638034 2.21709317] w\_new= [-0.03347536 0.81637969 2.21709568]

gradient= [-1.85049061e-04 -6.48494827e-05 2.49898544e-04] w = [-0.03347536 0.81637969 2.21709568] w\_new= [-0.03347721 0.81637904 2.21709818]

gradient= [-1.84790330e-04 -6.47671004e-05 2.49557430e-04] w = [-0.03347721 0.81637904 2.21709818] w\_new= [-0.03347906 0.81637839 2.21710067]

gradient= [-1.84531961e-04 -6.46848211e-05 2.49216783e-04] w = [-0.03347906 0.81637839 2.21710067] w\_new= [-0.03348091 0.81637775 2.21710316]

gradient= [-1.84273955e-04 -6.46026448e-05 2.48876600e-04] w = [-0.03348091 0.81637775 2.21710316] w\_new= [-0.03348275 0.8163771 2.21710565]

gradient= [-1.84016311e-04 -6.45205712e-05 2.48536883e-04] w = [-0.03348275 0.8163771 2.21710565] w\_new= [-0.03348459 0.81637645 2.21710814]

gradient= [-1.83759029e-04 -6.44386003e-05 2.48197629e-04] w = [-0.03348459 0.81637645 2.21710814] w\_new= [-0.03348643 0.81637581 2.21711062]

gradient= [-1.83502107e-04 -6.43567319e-05 2.47858838e-04] w = [-0.03348643 0.81637581 2.21711062] w\_new= [-0.03348826 0.81637517 2.2171131 ]

gradient= [-1.83245545e-04 -6.42749659e-05 2.47520511e-04] w = [-0.03348826 0.81637517 2.2171131 ] w\_new= [-0.0334901 0.81637452 2.21711557]

gradient= [-1.82989343e-04 -6.41933022e-05 2.47182645e-04] w = [-0.0334901 0.81637452 2.21711557] w\_new= [-0.03349193 0.81637388 2.21711804]

gradient= [-1.82733501e-04 -6.41117406e-05 2.46845241e-04] w = [-0.03349193 0.81637388 2.21711804] w\_new= [-0.03349375 0.81637324 2.21712051]

gradient= [-1.82478017e-04 -6.40302811e-05 2.46508298e-04] w = [-0.03349375 0.81637324 2.21712051] w\_new= [-0.03349558 0.8163726 2.21712298]

gradient= [-1.82222892e-04 -6.39489234e-05 2.46171815e-04] w = [-0.03349558 0.8163726 2.21712298] w\_new= [-0.0334974 0.81637196 2.21712544]

gradient= [-1.81968124e-04 -6.38676676e-05 2.45835792e-04] w = [-0.0334974 0.81637196 2.21712544] w\_new= [-0.03349922 0.81637132 2.2171279 ]

gradient= [-1.81713714e-04 -6.37865133e-05 2.45500227e-04] w = [-0.03349922 0.81637132 2.2171279 ] w\_new= [-0.03350104 0.81637068 2.21713035]

gradient= [-1.81459660e-04 -6.37054606e-05 2.45165121e-04] w = [-0.03350104 0.81637068 2.21713035] w\_new= [-0.03350285 0.81637005 2.2171328 ]

gradient= [-1.81205963e-04 -6.36245093e-05 2.44830472e-04] w = [-0.03350285 0.81637005 2.2171328 ] w\_new= [-0.03350466 0.81636941 2.21713525]

gradient= [-1.80952622e-04 -6.35436593e-05 2.44496281e-04] w = [-0.03350466 0.81636941 2.21713525] w\_new= [-0.03350647 0.81636878 2.2171377 ]

gradient= [-1.80699636e-04 -6.34629104e-05 2.44162546e-04] w = [-0.03350647 0.81636878 2.2171377 ] w\_new= [-0.03350828 0.81636814 2.21714014]

gradient= [-1.80447004e-04 -6.33822626e-05 2.43829267e-04] w = [-0.03350828 0.81636814 2.21714014] w\_new= [-0.03351008 0.81636751 2.21714258]

gradient= [-1.80194727e-04 -6.33017156e-05 2.43496443e-04] w = [-0.03351008 0.81636751 2.21714258] w\_new= [-0.03351189 0.81636687 2.21714501]

gradient= [-1.79942804e-04 -6.32212694e-05 2.43164073e-04] w = [-0.03351189 0.81636687 2.21714501] w\_new= [-0.03351369 0.81636624 2.21714744]

gradient= [-1.79691234e-04 -6.31409239e-05 2.42832158e-04] w = [-0.03351369 0.81636624 2.21714744] w\_new= [-0.03351548 0.81636561 2.21714987]

gradient= [-1.79440017e-04 -6.30606789e-05 2.42500696e-04] w = [-0.03351548 0.81636561 2.21714987] w\_new= [-0.03351728 0.81636498 2.2171523 ]

gradient= [-1.79189152e-04 -6.29805344e-05 2.42169686e-04] w = [-0.03351728 0.81636498 2.2171523 ] w\_new= [-0.03351907 0.81636435 2.21715472]

gradient= [-1.78938639e-04 -6.29004901e-05 2.41839129e-04] w = [-0.03351907 0.81636435 2.21715472] w\_new= [-0.03352086 0.81636372 2.21715714]

gradient= [-1.78688477e-04 -6.28205459e-05 2.41509023e-04] w = [-0.03352086 0.81636372 2.21715714] w\_new= [-0.03352265 0.81636309 2.21715955]

gradient= [-1.78438666e-04 -6.27407018e-05 2.41179368e-04] w = [-0.03352265 0.81636309 2.21715955] w\_new= [-0.03352443 0.81636246 2.21716196]

gradient= [-1.78189205e-04 -6.26609577e-05 2.40850163e-04] w = [-0.03352443 0.81636246 2.21716196] w\_new= [-0.03352621 0.81636184 2.21716437]

gradient= [-1.77940095e-04 -6.25813133e-05 2.40521408e-04] w = [-0.03352621 0.81636184 2.21716437] w\_new= [-0.03352799 0.81636121 2.21716678]

gradient= [-1.77691333e-04 -6.25017686e-05 2.40193102e-04] w = [-0.03352799 0.81636121 2.21716678] w\_new= [-0.03352977 0.81636059 2.21716918]

gradient= [-1.77442921e-04 -6.24223234e-05 2.39865244e-04] w = [-0.03352977 0.81636059 2.21716918] w\_new= [-0.03353154 0.81635996 2.21717158]

gradient= [-1.77194856e-04 -6.23429777e-05 2.39537834e-04] w = [-0.03353154 0.81635996 2.21717158] w\_new= [-0.03353331 0.81635934 2.21717397]

gradient= [-1.76947140e-04 -6.22637312e-05 2.39210871e-04] w = [-0.03353331 0.81635934 2.21717397] w\_new= [-0.03353508 0.81635872 2.21717637]

gradient= [-1.76699771e-04 -6.21845840e-05 2.38884355e-04] w = [-0.03353508 0.81635872 2.21717637] w\_new= [-0.03353685 0.8163581 2.21717876]

gradient= [-1.76452749e-04 -6.21055358e-05 2.38558284e-04] w = [-0.03353685 0.8163581 2.21717876] w\_new= [-0.03353862 0.81635747 2.21718114]

gradient= [-1.76206073e-04 -6.20265866e-05 2.38232659e-04] w = [-0.03353862 0.81635747 2.21718114] w\_new= [-0.03354038 0.81635685 2.21718352]

gradient= [-1.75959743e-04 -6.19477361e-05 2.37907479e-04] w = [-0.03354038 0.81635685 2.21718352] w\_new= [-0.03354214 0.81635623 2.2171859 ]

gradient= [-1.75713758e-04 -6.18689844e-05 2.37582743e-04] w = [-0.03354214 0.81635623 2.2171859 ] w\_new= [-0.03354389 0.81635562 2.21718828]

gradient= [-1.75468119e-04 -6.17903312e-05 2.37258450e-04] w = [-0.03354389 0.81635562 2.21718828] w\_new= [-0.03354565 0.816355 2.21719065]

gradient= [-1.75222824e-04 -6.17117765e-05 2.36934600e-04] w = [-0.03354565 0.816355 2.21719065] w\_new= [-0.0335474 0.81635438 2.21719302]

gradient= [-1.74977873e-04 -6.16333202e-05 2.36611193e-04] w = [-0.0335474 0.81635438 2.21719302] w\_new= [-0.03354915 0.81635376 2.21719539]

gradient= [-1.74733265e-04 -6.15549620e-05 2.36288227e-04] w = [-0.03354915 0.81635376 2.21719539] w\_new= [-0.0335509 0.81635315 2.21719775]

gradient= [-1.74489000e-04 -6.14767019e-05 2.35965702e-04] w = [-0.0335509 0.81635315 2.21719775] w\_new= [-0.03355264 0.81635253 2.21720011]

gradient= [-1.74245078e-04 -6.13985398e-05 2.35643618e-04] w = [-0.03355264 0.81635253 2.21720011] w\_new= [-0.03355439 0.81635192 2.21720247]

gradient= [-1.74001498e-04 -6.13204756e-05 2.35321974e-04] w = [-0.03355439 0.81635192 2.21720247] w\_new= [-0.03355613 0.81635131 2.21720482]

gradient= [-1.73758259e-04 -6.12425091e-05 2.35000768e-04] w = [-0.03355613 0.81635131 2.21720482] w\_new= [-0.03355786 0.81635069 2.21720717]

gradient= [-1.73515362e-04 -6.11646402e-05 2.34680002e-04] w = [-0.03355786 0.81635069 2.21720717] w\_new= [-0.0335596 0.81635008 2.21720952]

gradient= [-1.73272805e-04 -6.10868688e-05 2.34359674e-04] w = [-0.0335596 0.81635008 2.21720952] w\_new= [-0.03356133 0.81634947 2.21721186]

gradient= [-1.73030588e-04 -6.10091948e-05 2.34039783e-04] w = [-0.03356133 0.81634947 2.21721186] w\_new= [-0.03356306 0.81634886 2.2172142 ]

gradient= [-1.72788711e-04 -6.09316180e-05 2.33720329e-04] w = [-0.03356306 0.81634886 2.2172142 ] w\_new= [-0.03356479 0.81634825 2.21721654]

gradient= [-1.72547173e-04 -6.08541383e-05 2.33401311e-04] w = [-0.03356479 0.81634825 2.21721654] w\_new= [-0.03356651 0.81634764 2.21721887]

gradient= [-1.72305973e-04 -6.07767557e-05 2.33082729e-04] w = [-0.03356651 0.81634764 2.21721887] w\_new= [-0.03356824 0.81634704 2.2172212 ]

gradient= [-1.72065112e-04 -6.06994700e-05 2.32764582e-04] w = [-0.03356824 0.81634704 2.2172212 ] w\_new= [-0.03356996 0.81634643 2.21722353]

gradient= [-1.71824589e-04 -6.06222810e-05 2.32446870e-04] w = [-0.03356996 0.81634643 2.21722353] w\_new= [-0.03357168 0.81634582 2.21722585]

gradient= [-1.71584402e-04 -6.05451887e-05 2.32129591e-04] w = [-0.03357168 0.81634582 2.21722585] w\_new= [-0.03357339 0.81634522 2.21722817]

gradient= [-1.71344553e-04 -6.04681929e-05 2.31812746e-04] w = [-0.03357339 0.81634522 2.21722817] w\_new= [-0.03357511 0.81634461 2.21723049]

gradient= [-1.71105040e-04 -6.03912936e-05 2.31496333e-04] w = [-0.03357511 0.81634461 2.21723049] w\_new= [-0.03357682 0.81634401 2.21723281]

gradient= [-1.70865862e-04 -6.03144905e-05 2.31180353e-04] w = [-0.03357682 0.81634401 2.21723281] w\_new= [-0.03357853 0.81634341 2.21723512]

gradient= [-1.70627020e-04 -6.02377837e-05 2.30864804e-04] w = [-0.03357853 0.81634341 2.21723512] w\_new= [-0.03358023 0.8163428 2.21723743]

gradient= [-1.70388513e-04 -6.01611729e-05 2.30549686e-04] w = [-0.03358023 0.8163428 2.21723743] w\_new= [-0.03358194 0.8163422 2.21723973]

gradient= [-1.70150340e-04 -6.00846580e-05 2.30234998e-04] w = [-0.03358194 0.8163422 2.21723973] w\_new= [-0.03358364 0.8163416 2.21724204]

gradient= [-1.69912502e-04 -6.00082390e-05 2.29920741e-04] w = [-0.03358364 0.8163416 2.21724204] w\_new= [-0.03358534 0.816341 2.21724434]

gradient= [-1.69674996e-04 -5.99319157e-05 2.29606912e-04] w = [-0.03358534 0.816341 2.21724434] w\_new= [-0.03358703 0.8163404 2.21724663]

gradient= [-1.69437824e-04 -5.98556879e-05 2.29293512e-04] w = [-0.03358703 0.8163404 2.21724663] w\_new= [-0.03358873 0.8163398 2.21724892]

gradient= [-1.69200984e-04 -5.97795557e-05 2.28980540e-04] w = [-0.03358873 0.8163398 2.21724892] w\_new= [-0.03359042 0.81633921 2.21725121]

gradient= [-1.68964476e-04 -5.97035188e-05 2.28667995e-04] w = [-0.03359042 0.81633921 2.21725121] w\_new= [-0.03359211 0.81633861 2.2172535 ]

gradient= [-1.68728300e-04 -5.96275772e-05 2.28355877e-04] w = [-0.03359211 0.81633861 2.2172535 ] w\_new= [-0.0335938 0.81633801 2.21725578]

gradient= [-1.68492455e-04 -5.95517307e-05 2.28044186e-04] w = [-0.0335938 0.81633801 2.21725578] w\_new= [-0.03359548 0.81633742 2.21725806]

gradient= [-1.68256941e-04 -5.94759791e-05 2.27732920e-04] w = [-0.03359548 0.81633742 2.21725806] w\_new= [-0.03359716 0.81633682 2.21726034]

gradient= [-1.68021757e-04 -5.94003225e-05 2.27422079e-04] w = [-0.03359716 0.81633682 2.21726034] w\_new= [-0.03359884 0.81633623 2.21726262]

gradient= [-1.67786902e-04 -5.93247607e-05 2.27111663e-04] w = [-0.03359884 0.81633623 2.21726262] w\_new= [-0.03360052 0.81633563 2.21726489]

gradient= [-1.67552377e-04 -5.92492935e-05 2.26801670e-04] w = [-0.03360052 0.81633563 2.21726489] w\_new= [-0.0336022 0.81633504 2.21726716]

gradient= [-1.67318180e-04 -5.91739209e-05 2.26492101e-04] w = [-0.0336022 0.81633504 2.21726716] w\_new= [-0.03360387 0.81633445 2.21726942]

gradient= [-1.67084312e-04 -5.90986426e-05 2.26182955e-04] w = [-0.03360387 0.81633445 2.21726942] w\_new= [-0.03360554 0.81633386 2.21727168]

gradient= [-1.66850772e-04 -5.90234587e-05 2.25874231e-04] w = [-0.03360554 0.81633386 2.21727168] w\_new= [-0.03360721 0.81633327 2.21727394]

gradient= [-1.66617559e-04 -5.89483690e-05 2.25565928e-04] w = [-0.03360721 0.81633327 2.21727394] w\_new= [-0.03360888 0.81633268 2.2172762 ]

gradient= [-1.66384674e-04 -5.88733734e-05 2.25258047e-04] w = [-0.03360888 0.81633268 2.2172762 ] w\_new= [-0.03361054 0.81633209 2.21727845]

gradient= [-1.66152114e-04 -5.87984717e-05 2.24950586e-04] w = [-0.03361054 0.81633209 2.21727845] w\_new= [-0.0336122 0.8163315 2.2172807]

gradient= [-1.65919881e-04 -5.87236639e-05 2.24643545e-04] w = [-0.0336122 0.8163315 2.2172807] w\_new= [-0.03361386 0.81633092 2.21728295]

gradient= [-1.65687973e-04 -5.86489498e-05 2.24336923e-04] w = [-0.03361386 0.81633092 2.21728295] w\_new= [-0.03361552 0.81633033 2.21728519]

gradient= [-1.65456391e-04 -5.85743293e-05 2.24030720e-04] w = [-0.03361552 0.81633033 2.21728519] w\_new= [-0.03361717 0.81632974 2.21728743]

gradient= [-1.65225133e-04 -5.84998023e-05 2.23724935e-04] w = [-0.03361717 0.81632974 2.21728743] w\_new= [-0.03361882 0.81632916 2.21728967]

gradient= [-1.64994199e-04 -5.84253687e-05 2.23419568e-04] w = [-0.03361882 0.81632916 2.21728967] w\_new= [-0.03362047 0.81632857 2.2172919 ]

gradient= [-1.64763589e-04 -5.83510284e-05 2.23114617e-04] w = [-0.03362047 0.81632857 2.2172919 ] w\_new= [-0.03362212 0.81632799 2.21729413]

gradient= [-1.64533302e-04 -5.82767812e-05 2.22810083e-04] w = [-0.03362212 0.81632799 2.21729413] w\_new= [-0.03362377 0.81632741 2.21729636]

gradient= [-1.64303338e-04 -5.82026271e-05 2.22505965e-04] w = [-0.03362377 0.81632741 2.21729636] w\_new= [-0.03362541 0.81632683 2.21729858]

gradient= [-1.64073697e-04 -5.81285659e-05 2.22202263e-04] w = [-0.03362541 0.81632683 2.21729858] w\_new= [-0.03362705 0.81632624 2.21730081]

gradient= [-1.63844377e-04 -5.80545975e-05 2.21898975e-04] w = [-0.03362705 0.81632624 2.21730081] w\_new= [-0.03362869 0.81632566 2.21730303]

gradient= [-1.63615379e-04 -5.79807218e-05 2.21596101e-04] w = [-0.03362869 0.81632566 2.21730303] w\_new= [-0.03363033 0.81632508 2.21730524]

gradient= [-1.63386702e-04 -5.79069388e-05 2.21293641e-04] w = [-0.03363033 0.81632508 2.21730524] w\_new= [-0.03363196 0.81632451 2.21730745]

gradient= [-1.63158346e-04 -5.78332481e-05 2.20991594e-04] w = [-0.03363196 0.81632451 2.21730745] w\_new= [-0.03363359 0.81632393 2.21730966]

gradient= [-1.62930309e-04 -5.77596499e-05 2.20689959e-04] w = [-0.03363359 0.81632393 2.21730966] w\_new= [-0.03363522 0.81632335 2.21731187]

gradient= [-1.62702593e-04 -5.76861438e-05 2.20388736e-04] w = [-0.03363522 0.81632335 2.21731187] w\_new= [-0.03363685 0.81632277 2.21731408]

gradient= [-1.62475195e-04 -5.76127300e-05 2.20087925e-04] w = [-0.03363685 0.81632277 2.21731408] w\_new= [-0.03363847 0.8163222 2.21731628]

gradient= [-1.62248116e-04 -5.75394081e-05 2.19787524e-04] w = [-0.03363847 0.8163222 2.21731628] w\_new= [-0.0336401 0.81632162 2.21731847]

gradient= [-1.62021356e-04 -5.74661781e-05 2.19487534e-04] w = [-0.0336401 0.81632162 2.21731847] w\_new= [-0.03364172 0.81632105 2.21732067]

gradient= [-1.61794913e-04 -5.73930399e-05 2.19187953e-04] w = [-0.03364172 0.81632105 2.21732067] w\_new= [-0.03364333 0.81632047 2.21732286]

gradient= [-1.61568788e-04 -5.73199934e-05 2.18888782e-04] w = [-0.03364333 0.81632047 2.21732286] w\_new= [-0.03364495 0.8163199 2.21732505]

gradient= [-1.61342980e-04 -5.72470385e-05 2.18590019e-04] w = [-0.03364495 0.8163199 2.21732505] w\_new= [-0.03364656 0.81631933 2.21732724]

gradient= [-1.61117489e-04 -5.71741750e-05 2.18291664e-04] w = [-0.03364656 0.81631933 2.21732724] w\_new= [-0.03364817 0.81631875 2.21732942]

gradient= [-1.60892313e-04 -5.71014029e-05 2.17993716e-04] w = [-0.03364817 0.81631875 2.21732942] w\_new= [-0.03364978 0.81631818 2.2173316 ]

gradient= [-1.60667453e-04 -5.70287220e-05 2.17696175e-04] w = [-0.03364978 0.81631818 2.2173316 ] w\_new= [-0.03365139 0.81631761 2.21733378]

gradient= [-1.60442909e-04 -5.69561322e-05 2.17399041e-04] w = [-0.03365139 0.81631761 2.21733378] w\_new= [-0.03365299 0.81631704 2.21733595]

gradient= [-1.60218679e-04 -5.68836334e-05 2.17102312e-04] w = [-0.03365299 0.81631704 2.21733595] w\_new= [-0.0336546 0.81631648 2.21733812]

gradient= [-1.59994763e-04 -5.68112255e-05 2.16805989e-04] w = [-0.0336546 0.81631648 2.21733812] w\_new= [-0.0336562 0.81631591 2.21734029]

gradient= [-1.59771161e-04 -5.67389084e-05 2.16510070e-04] w = [-0.0336562 0.81631591 2.21734029] w\_new= [-0.03365779 0.81631534 2.21734245]

gradient= [-1.59547873e-04 -5.66666820e-05 2.16214555e-04] w = [-0.03365779 0.81631534 2.21734245] w\_new= [-0.03365939 0.81631477 2.21734462]

gradient= [-1.59324898e-04 -5.65945461e-05 2.15919444e-04] w = [-0.03365939 0.81631477 2.21734462] w\_new= [-0.03366098 0.81631421 2.21734678]

gradient= [-1.59102235e-04 -5.65225007e-05 2.15624736e-04] w = [-0.03366098 0.81631421 2.21734678] w\_new= [-0.03366257 0.81631364 2.21734893]

gradient= [-1.58879884e-04 -5.64505456e-05 2.15330430e-04] w = [-0.03366257 0.81631364 2.21734893] w\_new= [-0.03366416 0.81631308 2.21735108]

gradient= [-1.58657845e-04 -5.63786807e-05 2.15036526e-04] w = [-0.03366416 0.81631308 2.21735108] w\_new= [-0.03366575 0.81631251 2.21735323]

gradient= [-1.58436118e-04 -5.63069059e-05 2.14743023e-04] w = [-0.03366575 0.81631251 2.21735323] w\_new= [-0.03366733 0.81631195 2.21735538]

gradient= [-1.58214701e-04 -5.62352212e-05 2.14449922e-04] w = [-0.03366733 0.81631195 2.21735538] w\_new= [-0.03366891 0.81631139 2.21735753]

gradient= [-1.57993594e-04 -5.61636263e-05 2.14157220e-04] w = [-0.03366891 0.81631139 2.21735753] w\_new= [-0.03367049 0.81631083 2.21735967]

gradient= [-1.57772797e-04 -5.60921212e-05 2.13864918e-04] w = [-0.03367049 0.81631083 2.21735967] w\_new= [-0.03367207 0.81631027 2.21736181]

gradient= [-1.57552310e-04 -5.60207058e-05 2.13573016e-04] w = [-0.03367207 0.81631027 2.21736181] w\_new= [-0.03367365 0.81630971 2.21736394]

gradient= [-1.57332132e-04 -5.59493799e-05 2.13281512e-04] w = [-0.03367365 0.81630971 2.21736394] w\_new= [-0.03367522 0.81630915 2.21736608]

gradient= [-1.57112262e-04 -5.58781435e-05 2.12990406e-04] w = [-0.03367522 0.81630915 2.21736608] w\_new= [-0.03367679 0.81630859 2.21736821]

gradient= [-1.56892701e-04 -5.58069965e-05 2.12699697e-04] w = [-0.03367679 0.81630859 2.21736821] w\_new= [-0.03367836 0.81630803 2.21737033]

gradient= [-1.56673447e-04 -5.57359386e-05 2.12409386e-04] w = [-0.03367836 0.81630803 2.21737033] w\_new= [-0.03367993 0.81630747 2.21737246]

gradient= [-1.56454501e-04 -5.56649699e-05 2.12119471e-04] w = [-0.03367993 0.81630747 2.21737246] w\_new= [-0.03368149 0.81630691 2.21737458]

gradient= [-1.56235862e-04 -5.55940902e-05 2.11829952e-04] w = [-0.03368149 0.81630691 2.21737458] w\_new= [-0.03368306 0.81630636 2.2173767 ]

gradient= [-1.56017529e-04 -5.55232994e-05 2.11540828e-04] w = [-0.03368306 0.81630636 2.2173767 ] w\_new= [-0.03368462 0.8163058 2.21737881]

gradient= [-1.55799502e-04 -5.54525974e-05 2.11252099e-04] w = [-0.03368462 0.8163058 2.21737881] w\_new= [-0.03368617 0.81630525 2.21738092]

gradient= [-1.55581780e-04 -5.53819840e-05 2.10963764e-04] w = [-0.03368617 0.81630525 2.21738092] w\_new= [-0.03368773 0.8163047 2.21738303]

gradient= [-1.55364364e-04 -5.53114593e-05 2.10675823e-04] w = [-0.03368773 0.8163047 2.21738303] w\_new= [-0.03368928 0.81630414 2.21738514]

gradient= [-1.55147252e-04 -5.52410230e-05 2.10388275e-04] w = [-0.03368928 0.81630414 2.21738514] w\_new= [-0.03369083 0.81630359 2.21738724]

gradient= [-1.54930445e-04 -5.51706750e-05 2.10101120e-04] w = [-0.03369083 0.81630359 2.21738724] w\_new= [-0.03369238 0.81630304 2.21738935]

gradient= [-1.54713942e-04 -5.51004153e-05 2.09814357e-04] w = [-0.03369238 0.81630304 2.21738935] w\_new= [-0.03369393 0.81630249 2.21739144]

gradient= [-1.54497742e-04 -5.50302438e-05 2.09527986e-04] w = [-0.03369393 0.81630249 2.21739144] w\_new= [-0.03369548 0.81630194 2.21739354]

gradient= [-1.54281845e-04 -5.49601602e-05 2.09242005e-04] w = [-0.03369548 0.81630194 2.21739354] w\_new= [-0.03369702 0.81630139 2.21739563]

gradient= [-1.54066251e-04 -5.48901646e-05 2.08956415e-04] w = [-0.03369702 0.81630139 2.21739563] w\_new= [-0.03369856 0.81630084 2.21739772]

gradient= [-1.53850959e-04 -5.48202569e-05 2.08671215e-04] w = [-0.03369856 0.81630084 2.21739772] w\_new= [-0.0337001 0.81630029 2.21739981]

gradient= [-1.53635968e-04 -5.47504368e-05 2.08386405e-04] w = [-0.0337001 0.81630029 2.21739981] w\_new= [-0.03370163 0.81629974 2.21740189]

gradient= [-1.53421279e-04 -5.46807043e-05 2.08101983e-04] w = [-0.03370163 0.81629974 2.21740189] w\_new= [-0.03370317 0.8162992 2.21740397]

gradient= [-1.53206891e-04 -5.46110593e-05 2.07817950e-04] w = [-0.03370317 0.8162992 2.21740397] w\_new= [-0.0337047 0.81629865 2.21740605]

gradient= [-1.52992803e-04 -5.45415016e-05 2.07534305e-04] w = [-0.0337047 0.81629865 2.21740605] w\_new= [-0.03370623 0.8162981 2.21740813]

gradient= [-1.52779015e-04 -5.44720313e-05 2.07251047e-04] w = [-0.03370623 0.8162981 2.21740813] w\_new= [-0.03370776 0.81629756 2.2174102 ]

gradient= [-1.52565527e-04 -5.44026481e-05 2.06968176e-04] w = [-0.03370776 0.81629756 2.2174102 ] w\_new= [-0.03370928 0.81629702 2.21741227]

gradient= [-1.52352339e-04 -5.43333520e-05 2.06685691e-04] w = [-0.03370928 0.81629702 2.21741227] w\_new= [-0.03371081 0.81629647 2.21741433]

gradient= [-1.52139448e-04 -5.42641428e-05 2.06403591e-04] w = [-0.03371081 0.81629647 2.21741433] w\_new= [-0.03371233 0.81629593 2.2174164 ]

gradient= [-1.51926857e-04 -5.41950205e-05 2.06121877e-04] w = [-0.03371233 0.81629593 2.2174164 ] w\_new= [-0.03371385 0.81629539 2.21741846]

gradient= [-1.51714563e-04 -5.41259849e-05 2.05840548e-04] w = [-0.03371385 0.81629539 2.21741846] w\_new= [-0.03371537 0.81629485 2.21742052]

gradient= [-1.51502567e-04 -5.40570360e-05 2.05559603e-04] w = [-0.03371537 0.81629485 2.21742052] w\_new= [-0.03371688 0.81629431 2.21742257]

gradient= [-1.51290867e-04 -5.39881735e-05 2.05279041e-04] w = [-0.03371688 0.81629431 2.21742257] w\_new= [-0.03371839 0.81629377 2.21742463]

gradient= [-1.51079465e-04 -5.39193975e-05 2.04998862e-04] w = [-0.03371839 0.81629377 2.21742463] w\_new= [-0.0337199 0.81629323 2.21742668]

gradient= [-1.50868359e-04 -5.38507078e-05 2.04719067e-04] w = [-0.0337199 0.81629323 2.21742668] w\_new= [-0.03372141 0.81629269 2.21742872]

gradient= [-1.50657548e-04 -5.37821043e-05 2.04439653e-04] w = [-0.03372141 0.81629269 2.21742872] w\_new= [-0.03372292 0.81629215 2.21743077]

gradient= [-1.50447033e-04 -5.37135869e-05 2.04160620e-04] w = [-0.03372292 0.81629215 2.21743077] w\_new= [-0.03372442 0.81629161 2.21743281]

gradient= [-1.50236813e-04 -5.36451555e-05 2.03881969e-04] w = [-0.03372442 0.81629161 2.21743281] w\_new= [-0.03372593 0.81629108 2.21743485]

gradient= [-1.50026888e-04 -5.35768100e-05 2.03603698e-04] w = [-0.03372593 0.81629108 2.21743485] w\_new= [-0.03372743 0.81629054 2.21743689]

gradient= [-1.49817257e-04 -5.35085502e-05 2.03325807e-04] w = [-0.03372743 0.81629054 2.21743689] w\_new= [-0.03372892 0.81629001 2.21743892]

gradient= [-1.49607920e-04 -5.34403762e-05 2.03048296e-04] w = [-0.03372892 0.81629001 2.21743892] w\_new= [-0.03373042 0.81628947 2.21744095]

gradient= [-1.49398876e-04 -5.33722877e-05 2.02771163e-04] w = [-0.03373042 0.81628947 2.21744095] w\_new= [-0.03373191 0.81628894 2.21744298]

gradient= [-1.49190125e-04 -5.33042847e-05 2.02494409e-04] w = [-0.03373191 0.81628894 2.21744298] w\_new= [-0.03373341 0.8162884 2.217445 ]

gradient= [-1.48981666e-04 -5.32363670e-05 2.02218033e-04] w = [-0.03373341 0.8162884 2.217445 ] w\_new= [-0.0337349 0.81628787 2.21744702]

gradient= [-1.48773500e-04 -5.31685346e-05 2.01942034e-04] w = [-0.0337349 0.81628787 2.21744702] w\_new= [-0.03373638 0.81628734 2.21744904]

gradient= [-1.48565625e-04 -5.31007873e-05 2.01666412e-04] w = [-0.03373638 0.81628734 2.21744904] w\_new= [-0.03373787 0.81628681 2.21745106]

gradient= [-1.48358042e-04 -5.30331251e-05 2.01391167e-04] w = [-0.03373787 0.81628681 2.21745106] w\_new= [-0.03373935 0.81628628 2.21745307]

gradient= [-1.48150749e-04 -5.29655478e-05 2.01116297e-04] w = [-0.03373935 0.81628628 2.21745307] w\_new= [-0.03374083 0.81628575 2.21745508]

gradient= [-1.47943747e-04 -5.28980554e-05 2.00841803e-04] w = [-0.03374083 0.81628575 2.21745508] w\_new= [-0.03374231 0.81628522 2.21745709]

gradient= [-1.47737035e-04 -5.28306477e-05 2.00567683e-04] w = [-0.03374231 0.81628522 2.21745709] w\_new= [-0.03374379 0.81628469 2.2174591 ]

gradient= [-1.47530613e-04 -5.27633246e-05 2.00293938e-04] w = [-0.03374379 0.81628469 2.2174591 ] w\_new= [-0.03374527 0.81628416 2.2174611 ]

gradient= [-1.47324480e-04 -5.26960860e-05 2.00020566e-04] w = [-0.03374527 0.81628416 2.2174611 ] w\_new= [-0.03374674 0.81628364 2.2174631 ]

gradient= [-1.47118636e-04 -5.26289319e-05 1.99747568e-04] w = [-0.03374674 0.81628364 2.2174631 ] w\_new= [-0.03374821 0.81628311 2.2174651 ]

gradient= [-1.46913080e-04 -5.25618620e-05 1.99474942e-04] w = [-0.03374821 0.81628311 2.2174651 ] w\_new= [-0.03374968 0.81628259 2.21746709]

gradient= [-1.46707813e-04 -5.24948764e-05 1.99202689e-04] w = [-0.03374968 0.81628259 2.21746709] w\_new= [-0.03375115 0.81628206 2.21746909]

gradient= [-1.46502833e-04 -5.24279749e-05 1.98930807e-04] w = [-0.03375115 0.81628206 2.21746909] w\_new= [-0.03375261 0.81628154 2.21747108]

gradient= [-1.46298140e-04 -5.23611574e-05 1.98659297e-04] w = [-0.03375261 0.81628154 2.21747108] w\_new= [-0.03375408 0.81628101 2.21747306]

gradient= [-1.46093734e-04 -5.22944237e-05 1.98388158e-04] w = [-0.03375408 0.81628101 2.21747306] w\_new= [-0.03375554 0.81628049 2.21747505]

gradient= [-1.45889614e-04 -5.22277739e-05 1.98117388e-04] w = [-0.03375554 0.81628049 2.21747505] w\_new= [-0.033757 0.81627997 2.21747703]

gradient= [-1.45685781e-04 -5.21612078e-05 1.97846989e-04] w = [-0.033757 0.81627997 2.21747703] w\_new= [-0.03375845 0.81627945 2.21747901]

gradient= [-1.45482233e-04 -5.20947252e-05 1.97576958e-04] w = [-0.03375845 0.81627945 2.21747901] w\_new= [-0.03375991 0.81627893 2.21748098]

gradient= [-1.45278970e-04 -5.20283262e-05 1.97307297e-04] w = [-0.03375991 0.81627893 2.21748098] w\_new= [-0.03376136 0.81627841 2.21748295]

gradient= [-1.45075992e-04 -5.19620105e-05 1.97038003e-04] w = [-0.03376136 0.81627841 2.21748295] w\_new= [-0.03376281 0.81627789 2.21748492]

gradient= [-1.44873299e-04 -5.18957781e-05 1.96769077e-04] w = [-0.03376281 0.81627789 2.21748492] w\_new= [-0.03376426 0.81627737 2.21748689]

gradient= [-1.44670890e-04 -5.18296289e-05 1.96500519e-04] w = [-0.03376426 0.81627737 2.21748689] w\_new= [-0.03376571 0.81627685 2.21748886]

gradient= [-1.44468764e-04 -5.17635628e-05 1.96232327e-04] w = [-0.03376571 0.81627685 2.21748886] w\_new= [-0.03376715 0.81627633 2.21749082]

gradient= [-1.44266921e-04 -5.16975796e-05 1.95964501e-04] w = [-0.03376715 0.81627633 2.21749082] w\_new= [-0.03376859 0.81627581 2.21749278]

gradient= [-1.44065362e-04 -5.16316793e-05 1.95697041e-04] w = [-0.03376859 0.81627581 2.21749278] w\_new= [-0.03377003 0.8162753 2.21749474]

gradient= [-1.43864084e-04 -5.15658618e-05 1.95429946e-04] w = [-0.03377003 0.8162753 2.21749474] w\_new= [-0.03377147 0.81627478 2.21749669]

gradient= [-1.43663089e-04 -5.15001269e-05 1.95163216e-04] w = [-0.03377147 0.81627478 2.21749669] w\_new= [-0.03377291 0.81627427 2.21749864]

gradient= [-1.43462375e-04 -5.14344746e-05 1.94896850e-04] w = [-0.03377291 0.81627427 2.21749864] w\_new= [-0.03377434 0.81627375 2.21750059]

gradient= [-1.43261943e-04 -5.13689048e-05 1.94630848e-04] w = [-0.03377434 0.81627375 2.21750059] w\_new= [-0.03377578 0.81627324 2.21750254]

gradient= [-1.43061791e-04 -5.13034173e-05 1.94365209e-04] w = [-0.03377578 0.81627324 2.21750254] w\_new= [-0.03377721 0.81627273 2.21750448]

gradient= [-1.42861920e-04 -5.12380121e-05 1.94099932e-04] w = [-0.03377721 0.81627273 2.21750448] w\_new= [-0.03377864 0.81627221 2.21750642]

gradient= [-1.42662329e-04 -5.11726891e-05 1.93835018e-04] w = [-0.03377864 0.81627221 2.21750642] w\_new= [-0.03378006 0.8162717 2.21750836]

gradient= [-1.42463017e-04 -5.11074481e-05 1.93570466e-04] w = [-0.03378006 0.8162717 2.21750836] w\_new= [-0.03378149 0.81627119 2.2175103 ]

gradient= [-1.42263985e-04 -5.10422890e-05 1.93306274e-04] w = [-0.03378149 0.81627119 2.2175103 ] w\_new= [-0.03378291 0.81627068 2.21751223]

gradient= [-1.42065232e-04 -5.09772119e-05 1.93042444e-04] w = [-0.03378291 0.81627068 2.21751223] w\_new= [-0.03378433 0.81627017 2.21751416]

gradient= [-1.41866757e-04 -5.09122164e-05 1.92778974e-04] w = [-0.03378433 0.81627017 2.21751416] w\_new= [-0.03378575 0.81626966 2.21751609]

gradient= [-1.41668560e-04 -5.08473027e-05 1.92515863e-04] w = [-0.03378575 0.81626966 2.21751609] w\_new= [-0.03378717 0.81626915 2.21751801]

gradient= [-1.41470641e-04 -5.07824704e-05 1.92253112e-04] w = [-0.03378717 0.81626915 2.21751801] w\_new= [-0.03378858 0.81626864 2.21751994]

gradient= [-1.41272999e-04 -5.07177197e-05 1.91990719e-04] w = [-0.03378858 0.81626864 2.21751994] w\_new= [-0.03378999 0.81626814 2.21752186]

gradient= [-1.41075635e-04 -5.06530502e-05 1.91728685e-04] w = [-0.03378999 0.81626814 2.21752186] w\_new= [-0.0337914 0.81626763 2.21752377]

gradient= [-1.40878546e-04 -5.05884621e-05 1.91467008e-04] w = [-0.0337914 0.81626763 2.21752377] w\_new= [-0.03379281 0.81626713 2.21752569]

gradient= [-1.40681734e-04 -5.05239551e-05 1.91205689e-04] w = [-0.03379281 0.81626713 2.21752569] w\_new= [-0.03379422 0.81626662 2.2175276 ]

gradient= [-1.40485198e-04 -5.04595291e-05 1.90944727e-04] w = [-0.03379422 0.81626662 2.2175276 ] w\_new= [-0.03379562 0.81626612 2.21752951]

gradient= [-1.40288937e-04 -5.03951841e-05 1.90684121e-04] w = [-0.03379562 0.81626612 2.21752951] w\_new= [-0.03379703 0.81626561 2.21753142]

gradient= [-1.40092950e-04 -5.03309199e-05 1.90423870e-04] w = [-0.03379703 0.81626561 2.21753142] w\_new= [-0.03379843 0.81626511 2.21753332]

gradient= [-1.39897239e-04 -5.02667365e-05 1.90163975e-04] w = [-0.03379843 0.81626511 2.21753332] w\_new= [-0.03379983 0.81626461 2.21753522]

gradient= [-1.39701801e-04 -5.02026337e-05 1.89904435e-04] w = [-0.03379983 0.81626461 2.21753522] w\_new= [-0.03380122 0.8162641 2.21753712]

gradient= [-1.39506638e-04 -5.01386115e-05 1.89645249e-04] w = [-0.03380122 0.8162641 2.21753712] w\_new= [-0.03380262 0.8162636 2.21753902]

gradient= [-1.39311748e-04 -5.00746698e-05 1.89386418e-04] w = [-0.03380262 0.8162636 2.21753902] w\_new= [-0.03380401 0.8162631 2.21754091]

gradient= [-1.39117131e-04 -5.00108083e-05 1.89127939e-04] w = [-0.03380401 0.8162631 2.21754091] w\_new= [-0.0338054 0.8162626 2.2175428]

gradient= [-1.38922786e-04 -4.99470272e-05 1.88869814e-04] w = [-0.0338054 0.8162626 2.2175428] w\_new= [-0.03380679 0.8162621 2.21754469]

gradient= [-1.38728714e-04 -4.98833262e-05 1.88612040e-04] w = [-0.03380679 0.8162621 2.21754469] w\_new= [-0.03380818 0.8162616 2.21754658]

gradient= [-1.38534914e-04 -4.98197053e-05 1.88354619e-04] w = [-0.03380818 0.8162616 2.21754658] w\_new= [-0.03380957 0.8162611 2.21754846]

gradient= [-1.38341385e-04 -4.97561643e-05 1.88097550e-04] w = [-0.03380957 0.8162611 2.21754846] w\_new= [-0.03381095 0.81626061 2.21755034]

gradient= [-1.38148128e-04 -4.96927032e-05 1.87840831e-04] w = [-0.03381095 0.81626061 2.21755034] w\_new= [-0.03381233 0.81626011 2.21755222]

gradient= [-1.37955141e-04 -4.96293218e-05 1.87584463e-04] w = [-0.03381233 0.81626011 2.21755222] w\_new= [-0.03381371 0.81625961 2.2175541 ]

gradient= [-1.37762424e-04 -4.95660201e-05 1.87328445e-04] w = [-0.03381371 0.81625961 2.2175541 ] w\_new= [-0.03381509 0.81625912 2.21755597]

gradient= [-1.37569978e-04 -4.95027980e-05 1.87072776e-04] w = [-0.03381509 0.81625912 2.21755597] w\_new= [-0.03381646 0.81625862 2.21755784]

gradient= [-1.37377801e-04 -4.94396553e-05 1.86817456e-04] w = [-0.03381646 0.81625862 2.21755784] w\_new= [-0.03381784 0.81625813 2.21755971]

gradient= [-1.37185893e-04 -4.93765920e-05 1.86562485e-04] w = [-0.03381784 0.81625813 2.21755971] w\_new= [-0.03381921 0.81625764 2.21756157]

gradient= [-1.36994255e-04 -4.93136080e-05 1.86307863e-04] w = [-0.03381921 0.81625764 2.21756157] w\_new= [-0.03382058 0.81625714 2.21756344]

gradient= [-1.36802884e-04 -4.92507031e-05 1.86053587e-04] w = [-0.03382058 0.81625714 2.21756344] w\_new= [-0.03382195 0.81625665 2.2175653 ]

gradient= [-1.36611782e-04 -4.91878773e-05 1.85799659e-04] w = [-0.03382195 0.81625665 2.2175653 ] w\_new= [-0.03382331 0.81625616 2.21756716]

gradient= [-1.36420948e-04 -4.91251305e-05 1.85546078e-04] w = [-0.03382331 0.81625616 2.21756716] w\_new= [-0.03382468 0.81625567 2.21756901]

gradient= [-1.36230380e-04 -4.90624626e-05 1.85292843e-04] w = [-0.03382468 0.81625567 2.21756901] w\_new= [-0.03382604 0.81625518 2.21757086]

gradient= [-1.36040080e-04 -4.89998735e-05 1.85039954e-04] w = [-0.03382604 0.81625518 2.21757086] w\_new= [-0.0338274 0.81625469 2.21757271]

gradient= [-1.35850047e-04 -4.89373630e-05 1.84787410e-04] w = [-0.0338274 0.81625469 2.21757271] w\_new= [-0.03382876 0.8162542 2.21757456]

gradient= [-1.35660279e-04 -4.88749311e-05 1.84535210e-04] w = [-0.03382876 0.8162542 2.21757456] w\_new= [-0.03383011 0.81625371 2.21757641]

gradient= [-1.35470778e-04 -4.88125778e-05 1.84283355e-04] w = [-0.03383011 0.81625371 2.21757641] w\_new= [-0.03383147 0.81625322 2.21757825]

gradient= [-1.35281542e-04 -4.87503028e-05 1.84031844e-04] w = [-0.03383147 0.81625322 2.21757825] w\_new= [-0.03383282 0.81625273 2.21758009]

gradient= [-1.35092571e-04 -4.86881061e-05 1.83780677e-04] w = [-0.03383282 0.81625273 2.21758009] w\_new= [-0.03383417 0.81625225 2.21758193]

gradient= [-1.34903864e-04 -4.86259876e-05 1.83529852e-04] w = [-0.03383417 0.81625225 2.21758193] w\_new= [-0.03383552 0.81625176 2.21758376]

gradient= [-1.34715422e-04 -4.85639472e-05 1.83279370e-04] w = [-0.03383552 0.81625176 2.21758376] w\_new= [-0.03383687 0.81625127 2.2175856 ]

gradient= [-1.34527244e-04 -4.85019848e-05 1.83029229e-04] w = [-0.03383687 0.81625127 2.2175856 ] w\_new= [-0.03383821 0.81625079 2.21758743]

gradient= [-1.34339330e-04 -4.84401004e-05 1.82779430e-04] w = [-0.03383821 0.81625079 2.21758743] w\_new= [-0.03383956 0.8162503 2.21758925]

gradient= [-1.34151679e-04 -4.83782937e-05 1.82529973e-04] w = [-0.03383956 0.8162503 2.21758925] w\_new= [-0.0338409 0.81624982 2.21759108]

gradient= [-1.33964291e-04 -4.83165648e-05 1.82280856e-04] w = [-0.0338409 0.81624982 2.21759108] w\_new= [-0.03384224 0.81624934 2.2175929 ]

gradient= [-1.33777165e-04 -4.82549135e-05 1.82032079e-04] w = [-0.03384224 0.81624934 2.2175929 ] w\_new= [-0.03384358 0.81624885 2.21759472]

gradient= [-1.33590301e-04 -4.81933397e-05 1.81783641e-04] w = [-0.03384358 0.81624885 2.21759472] w\_new= [-0.03384491 0.81624837 2.21759654]

gradient= [-1.33403700e-04 -4.81318434e-05 1.81535543e-04] w = [-0.03384491 0.81624837 2.21759654] w\_new= [-0.03384625 0.81624789 2.21759836]

gradient= [-1.33217359e-04 -4.80704244e-05 1.81287783e-04] w = [-0.03384625 0.81624789 2.21759836] w\_new= [-0.03384758 0.81624741 2.21760017]

gradient= [-1.33031280e-04 -4.80090826e-05 1.81040362e-04] w = [-0.03384758 0.81624741 2.21760017] w\_new= [-0.03384891 0.81624693 2.21760198]

gradient= [-1.32845461e-04 -4.79478180e-05 1.80793279e-04] w = [-0.03384891 0.81624693 2.21760198] w\_new= [-0.03385024 0.81624645 2.21760379]

gradient= [-1.32659902e-04 -4.78866304e-05 1.80546533e-04] w = [-0.03385024 0.81624645 2.21760379] w\_new= [-0.03385156 0.81624597 2.21760559]

gradient= [-1.32474604e-04 -4.78255198e-05 1.80300124e-04] w = [-0.03385156 0.81624597 2.21760559] w\_new= [-0.03385289 0.81624549 2.2176074 ]

gradient= [-1.32289565e-04 -4.77644860e-05 1.80054051e-04] w = [-0.03385289 0.81624549 2.2176074 ] w\_new= [-0.03385421 0.81624502 2.2176092 ]

gradient= [-1.32104785e-04 -4.77035290e-05 1.79808314e-04] w = [-0.03385421 0.81624502 2.2176092 ] w\_new= [-0.03385553 0.81624454 2.21761099]

gradient= [-1.31920264e-04 -4.76426487e-05 1.79562913e-04] w = [-0.03385553 0.81624454 2.21761099] w\_new= [-0.03385685 0.81624406 2.21761279]

gradient= [-1.31736002e-04 -4.75818449e-05 1.79317846e-04] w = [-0.03385685 0.81624406 2.21761279] w\_new= [-0.03385817 0.81624359 2.21761458]

gradient= [-1.31551997e-04 -4.75211177e-05 1.79073115e-04] w = [-0.03385817 0.81624359 2.21761458] w\_new= [-0.03385949 0.81624311 2.21761637]

gradient= [-1.31368250e-04 -4.74604668e-05 1.78828717e-04] w = [-0.03385949 0.81624311 2.21761637] w\_new= [-0.0338608 0.81624264 2.21761816]

gradient= [-1.31184761e-04 -4.73998922e-05 1.78584653e-04] w = [-0.0338608 0.81624264 2.21761816] w\_new= [-0.03386211 0.81624216 2.21761995]

gradient= [-1.31001529e-04 -4.73393938e-05 1.78340923e-04] w = [-0.03386211 0.81624216 2.21761995] w\_new= [-0.03386342 0.81624169 2.21762173]

gradient= [-1.30818553e-04 -4.72789715e-05 1.78097525e-04] w = [-0.03386342 0.81624169 2.21762173] w\_new= [-0.03386473 0.81624122 2.21762351]

gradient= [-1.30635834e-04 -4.72186252e-05 1.77854459e-04] w = [-0.03386473 0.81624122 2.21762351] w\_new= [-0.03386604 0.81624074 2.21762529]

gradient= [-1.30453370e-04 -4.71583549e-05 1.77611725e-04] w = [-0.03386604 0.81624074 2.21762529] w\_new= [-0.03386734 0.81624027 2.21762707]

gradient= [-1.30271163e-04 -4.70981603e-05 1.77369323e-04] w = [-0.03386734 0.81624027 2.21762707] w\_new= [-0.03386864 0.8162398 2.21762884]

gradient= [-1.30089210e-04 -4.70380415e-05 1.77127252e-04] w = [-0.03386864 0.8162398 2.21762884] w\_new= [-0.03386994 0.81623933 2.21763061]

gradient= [-1.29907512e-04 -4.69779983e-05 1.76885511e-04] w = [-0.03386994 0.81623933 2.21763061] w\_new= [-0.03387124 0.81623886 2.21763238]

gradient= [-1.29726069e-04 -4.69180307e-05 1.76644100e-04] w = [-0.03387124 0.81623886 2.21763238] w\_new= [-0.03387254 0.81623839 2.21763415]

gradient= [-1.29544880e-04 -4.68581385e-05 1.76403018e-04] w = [-0.03387254 0.81623839 2.21763415] w\_new= [-0.03387384 0.81623792 2.21763591]

gradient= [-1.29363945e-04 -4.67983217e-05 1.76162266e-04] w = [-0.03387384 0.81623792 2.21763591] w\_new= [-0.03387513 0.81623746 2.21763767]

gradient= [-1.29183263e-04 -4.67385801e-05 1.75921843e-04] w = [-0.03387513 0.81623746 2.21763767] w\_new= [-0.03387642 0.81623699 2.21763943]

gradient= [-1.29002834e-04 -4.66789137e-05 1.75681748e-04] w = [-0.03387642 0.81623699 2.21763943] w\_new= [-0.03387771 0.81623652 2.21764119]

gradient= [-1.28822658e-04 -4.66193224e-05 1.75441980e-04] w = [-0.03387771 0.81623652 2.21764119] w\_new= [-0.033879 0.81623606 2.21764294]

gradient= [-1.28642734e-04 -4.65598060e-05 1.75202540e-04] w = [-0.033879 0.81623606 2.21764294] w\_new= [-0.03388029 0.81623559 2.2176447 ]

gradient= [-1.28463062e-04 -4.65003646e-05 1.74963427e-04] w = [-0.03388029 0.81623559 2.2176447 ] w\_new= [-0.03388157 0.81623512 2.21764644]

gradient= [-1.28283642e-04 -4.64409979e-05 1.74724640e-04] w = [-0.03388157 0.81623512 2.21764644] w\_new= [-0.03388285 0.81623466 2.21764819]

gradient= [-1.28104473e-04 -4.63817060e-05 1.74486179e-04] w = [-0.03388285 0.81623466 2.21764819] w\_new= [-0.03388413 0.8162342 2.21764994]

gradient= [-1.27925555e-04 -4.63224887e-05 1.74248044e-04] w = [-0.03388413 0.8162342 2.21764994] w\_new= [-0.03388541 0.81623373 2.21765168]

gradient= [-1.27746888e-04 -4.62633459e-05 1.74010234e-04] w = [-0.03388541 0.81623373 2.21765168] w\_new= [-0.03388669 0.81623327 2.21765342]

gradient= [-1.27568471e-04 -4.62042775e-05 1.73772748e-04] w = [-0.03388669 0.81623327 2.21765342] w\_new= [-0.03388797 0.81623281 2.21765516]

gradient= [-1.27390304e-04 -4.61452834e-05 1.73535587e-04] w = [-0.03388797 0.81623281 2.21765516] w\_new= [-0.03388924 0.81623235 2.21765689]

gradient= [-1.27212386e-04 -4.60863636e-05 1.73298750e-04] w = [-0.03388924 0.81623235 2.21765689] w\_new= [-0.03389051 0.81623189 2.21765863]

gradient= [-1.27034718e-04 -4.60275180e-05 1.73062236e-04] w = [-0.03389051 0.81623189 2.21765863] w\_new= [-0.03389178 0.81623143 2.21766036]

gradient= [-1.26857298e-04 -4.59687464e-05 1.72826045e-04] w = [-0.03389178 0.81623143 2.21766036] w\_new= [-0.03389305 0.81623097 2.21766208]

gradient= [-1.26680127e-04 -4.59100488e-05 1.72590176e-04] w = [-0.03389305 0.81623097 2.21766208] w\_new= [-0.03389432 0.81623051 2.21766381]

gradient= [-1.26503204e-04 -4.58514251e-05 1.72354629e-04] w = [-0.03389432 0.81623051 2.21766381] w\_new= [-0.03389558 0.81623005 2.21766553]

gradient= [-1.26326529e-04 -4.57928751e-05 1.72119404e-04] w = [-0.03389558 0.81623005 2.21766553] w\_new= [-0.03389685 0.81622959 2.21766726]

gradient= [-1.26150101e-04 -4.57343989e-05 1.71884500e-04] w = [-0.03389685 0.81622959 2.21766726] w\_new= [-0.03389811 0.81622913 2.21766897]

gradient= [-1.25973920e-04 -4.56759962e-05 1.71649917e-04] w = [-0.03389811 0.81622913 2.21766897] w\_new= [-0.03389937 0.81622868 2.21767069]

gradient= [-1.25797986e-04 -4.56176671e-05 1.71415654e-04] w = [-0.03389937 0.81622868 2.21767069] w\_new= [-0.03390063 0.81622822 2.2176724 ]

gradient= [-1.25622299e-04 -4.55594114e-05 1.71181710e-04] w = [-0.03390063 0.81622822 2.2176724 ] w\_new= [-0.03390188 0.81622777 2.21767412]

gradient= [-1.25446857e-04 -4.55012290e-05 1.70948086e-04] w = [-0.03390188 0.81622777 2.21767412] w\_new= [-0.03390314 0.81622731 2.21767583]

gradient= [-1.25271662e-04 -4.54431199e-05 1.70714782e-04] w = [-0.03390314 0.81622731 2.21767583] w\_new= [-0.03390439 0.81622686 2.21767753]

gradient= [-1.25096711e-04 -4.53850839e-05 1.70481795e-04] w = [-0.03390439 0.81622686 2.21767753] w\_new= [-0.03390564 0.8162264 2.21767924]

gradient= [-1.24922006e-04 -4.53271210e-05 1.70249127e-04] w = [-0.03390564 0.8162264 2.21767924] w\_new= [-0.03390689 0.81622595 2.21768094]

gradient= [-1.24747545e-04 -4.52692311e-05 1.70016776e-04] w = [-0.03390689 0.81622595 2.21768094] w\_new= [-0.03390814 0.8162255 2.21768264]

gradient= [-1.24573329e-04 -4.52114140e-05 1.69784743e-04] w = [-0.03390814 0.8162255 2.21768264] w\_new= [-0.03390938 0.81622504 2.21768434]

gradient= [-1.24399356e-04 -4.51536697e-05 1.69553026e-04] w = [-0.03390938 0.81622504 2.21768434] w\_new= [-0.03391063 0.81622459 2.21768603]

gradient= [-1.24225628e-04 -4.50959981e-05 1.69321626e-04] w = [-0.03391063 0.81622459 2.21768603] w\_new= [-0.03391187 0.81622414 2.21768773]

gradient= [-1.24052142e-04 -4.50383992e-05 1.69090541e-04] w = [-0.03391187 0.81622414 2.21768773] w\_new= [-0.03391311 0.81622369 2.21768942]

gradient= [-1.23878899e-04 -4.49808727e-05 1.68859772e-04] w = [-0.03391311 0.81622369 2.21768942] w\_new= [-0.03391435 0.81622324 2.21769111]

gradient= [-1.23705900e-04 -4.49234187e-05 1.68629318e-04] w = [-0.03391435 0.81622324 2.21769111] w\_new= [-0.03391558 0.81622279 2.21769279]

gradient= [-1.23533142e-04 -4.48660371e-05 1.68399179e-04] w = [-0.03391558 0.81622279 2.21769279] w\_new= [-0.03391682 0.81622234 2.21769448]

gradient= [-1.23360626e-04 -4.48087277e-05 1.68169354e-04] w = [-0.03391682 0.81622234 2.21769448] w\_new= [-0.03391805 0.8162219 2.21769616]

gradient= [-1.23188352e-04 -4.47514904e-05 1.67939843e-04] w = [-0.03391805 0.8162219 2.21769616] w\_new= [-0.03391929 0.81622145 2.21769784]

gradient= [-1.23016319e-04 -4.46943252e-05 1.67710644e-04] w = [-0.03391929 0.81622145 2.21769784] w\_new= [-0.03392052 0.816221 2.21769952]

gradient= [-1.22844527e-04 -4.46372320e-05 1.67481759e-04] w = [-0.03392052 0.816221 2.21769952] w\_new= [-0.03392174 0.81622055 2.21770119]

gradient= [-1.22672976e-04 -4.45802107e-05 1.67253187e-04] w = [-0.03392174 0.81622055 2.21770119] w\_new= [-0.03392297 0.81622011 2.21770286]

gradient= [-1.22501665e-04 -4.45232613e-05 1.67024926e-04] w = [-0.03392297 0.81622011 2.21770286] w\_new= [-0.0339242 0.81621966 2.21770453]

gradient= [-1.22330594e-04 -4.44663835e-05 1.66796977e-04] w = [-0.0339242 0.81621966 2.21770453] w\_new= [-0.03392542 0.81621922 2.2177062 ]

gradient= [-1.22159762e-04 -4.44095773e-05 1.66569339e-04] w = [-0.03392542 0.81621922 2.2177062 ] w\_new= [-0.03392664 0.81621877 2.21770787]

gradient= [-1.21989169e-04 -4.43528427e-05 1.66342012e-04] w = [-0.03392664 0.81621877 2.21770787] w\_new= [-0.03392786 0.81621833 2.21770953]

gradient= [-1.21818816e-04 -4.42961796e-05 1.66114995e-04] w = [-0.03392786 0.81621833 2.21770953] w\_new= [-0.03392908 0.81621789 2.21771119]

gradient= [-1.21648701e-04 -4.42395878e-05 1.65888289e-04] w = [-0.03392908 0.81621789 2.21771119] w\_new= [-0.0339303 0.81621745 2.21771285]

gradient= [-1.21478824e-04 -4.41830673e-05 1.65661891e-04] w = [-0.0339303 0.81621745 2.21771285] w\_new= [-0.03393151 0.816217 2.21771451]

gradient= [-1.21309185e-04 -4.41266180e-05 1.65435803e-04] w = [-0.03393151 0.816217 2.21771451] w\_new= [-0.03393272 0.81621656 2.21771616]

gradient= [-1.21139784e-04 -4.40702398e-05 1.65210024e-04] w = [-0.03393272 0.81621656 2.21771616] w\_new= [-0.03393393 0.81621612 2.21771781]

gradient= [-1.20970620e-04 -4.40139325e-05 1.64984552e-04] w = [-0.03393393 0.81621612 2.21771781] w\_new= [-0.03393514 0.81621568 2.21771946]

gradient= [-1.20801692e-04 -4.39576963e-05 1.64759389e-04] w = [-0.03393514 0.81621568 2.21771946] w\_new= [-0.03393635 0.81621524 2.21772111]

gradient= [-1.20633002e-04 -4.39015308e-05 1.64534533e-04] w = [-0.03393635 0.81621524 2.21772111] w\_new= [-0.03393756 0.8162148 2.21772276]

gradient= [-1.20464547e-04 -4.38454361e-05 1.64309983e-04] w = [-0.03393756 0.8162148 2.21772276] w\_new= [-0.03393876 0.81621436 2.2177244 ]

gradient= [-1.20296329e-04 -4.37894121e-05 1.64085741e-04] w = [-0.03393876 0.81621436 2.2177244 ] w\_new= [-0.03393997 0.81621393 2.21772604]

gradient= [-1.20128346e-04 -4.37334586e-05 1.63861804e-04] w = [-0.03393997 0.81621393 2.21772604] w\_new= [-0.03394117 0.81621349 2.21772768]

gradient= [-1.19960598e-04 -4.36775756e-05 1.63638173e-04] w = [-0.03394117 0.81621349 2.21772768] w\_new= [-0.03394237 0.81621305 2.21772931]

gradient= [-1.19793085e-04 -4.36217630e-05 1.63414848e-04] w = [-0.03394237 0.81621305 2.21772931] w\_new= [-0.03394357 0.81621262 2.21773095]

gradient= [-1.19625806e-04 -4.35660208e-05 1.63191827e-04] w = [-0.03394357 0.81621262 2.21773095] w\_new= [-0.03394476 0.81621218 2.21773258]

gradient= [-1.19458762e-04 -4.35103487e-05 1.62969111e-04] w = [-0.03394476 0.81621218 2.21773258] w\_new= [-0.03394596 0.81621175 2.21773421]

gradient= [-1.19291952e-04 -4.34547468e-05 1.62746699e-04] w = [-0.03394596 0.81621175 2.21773421] w\_new= [-0.03394715 0.81621131 2.21773584]

gradient= [-1.19125375e-04 -4.33992150e-05 1.62524590e-04] w = [-0.03394715 0.81621131 2.21773584] w\_new= [-0.03394834 0.81621088 2.21773746]

gradient= [-1.18959032e-04 -4.33437531e-05 1.62302785e-04] w = [-0.03394834 0.81621088 2.21773746] w\_new= [-0.03394953 0.81621044 2.21773909]

gradient= [-1.18792922e-04 -4.32883610e-05 1.62081283e-04] w = [-0.03394953 0.81621044 2.21773909] w\_new= [-0.03395072 0.81621001 2.21774071]

gradient= [-1.18627044e-04 -4.32330388e-05 1.61860082e-04] w = [-0.03395072 0.81621001 2.21774071] w\_new= [-0.0339519 0.81620958 2.21774233]

gradient= [-1.18461398e-04 -4.31777863e-05 1.61639184e-04] w = [-0.0339519 0.81620958 2.21774233] w\_new= [-0.03395309 0.81620915 2.21774394]

gradient= [-1.18295984e-04 -4.31226034e-05 1.61418588e-04] w = [-0.03395309 0.81620915 2.21774394] w\_new= [-0.03395427 0.81620872 2.21774556]

gradient= [-1.18130802e-04 -4.30674900e-05 1.61198292e-04] w = [-0.03395427 0.81620872 2.21774556] w\_new= [-0.03395545 0.81620828 2.21774717]

gradient= [-1.17965851e-04 -4.30124461e-05 1.60978298e-04] w = [-0.03395545 0.81620828 2.21774717] w\_new= [-0.03395663 0.81620785 2.21774878]

gradient= [-1.17801132e-04 -4.29574716e-05 1.60758603e-04] w = [-0.03395663 0.81620785 2.21774878] w\_new= [-0.03395781 0.81620743 2.21775039]

gradient= [-1.17636642e-04 -4.29025663e-05 1.60539209e-04] w = [-0.03395781 0.81620743 2.21775039] w\_new= [-0.03395899 0.816207 2.21775199]

gradient= [-1.17472384e-04 -4.28477302e-05 1.60320114e-04] w = [-0.03395899 0.816207 2.21775199] w\_new= [-0.03396016 0.81620657 2.21775359]

gradient= [-1.17308355e-04 -4.27929632e-05 1.60101318e-04] w = [-0.03396016 0.81620657 2.21775359] w\_new= [-0.03396133 0.81620614 2.2177552 ]

gradient= [-1.17144556e-04 -4.27382652e-05 1.59882821e-04] w = [-0.03396133 0.81620614 2.2177552 ] w\_new= [-0.03396251 0.81620571 2.21775679]

gradient= [-1.16980986e-04 -4.26836362e-05 1.59664622e-04] w = [-0.03396251 0.81620571 2.21775679] w\_new= [-0.03396368 0.81620529 2.21775839]

gradient= [-1.16817645e-04 -4.26290760e-05 1.59446721e-04] w = [-0.03396368 0.81620529 2.21775839] w\_new= [-0.03396484 0.81620486 2.21775999]

gradient= [-1.16654533e-04 -4.25745845e-05 1.59229117e-04] w = [-0.03396484 0.81620486 2.21775999] w\_new= [-0.03396601 0.81620443 2.21776158]

gradient= [-1.16491649e-04 -4.25201618e-05 1.59011811e-04] w = [-0.03396601 0.81620443 2.21776158] w\_new= [-0.03396718 0.81620401 2.21776317]

gradient= [-1.16328993e-04 -4.24658076e-05 1.58794801e-04] w = [-0.03396718 0.81620401 2.21776317] w\_new= [-0.03396834 0.81620358 2.21776476]

gradient= [-1.16166565e-04 -4.24115220e-05 1.58578087e-04] w = [-0.03396834 0.81620358 2.21776476] w\_new= [-0.0339695 0.81620316 2.21776634]

gradient= [-1.16004365e-04 -4.23573047e-05 1.58361669e-04] w = [-0.0339695 0.81620316 2.21776634] w\_new= [-0.03397066 0.81620274 2.21776792]

gradient= [-1.15842391e-04 -4.23031558e-05 1.58145547e-04] w = [-0.03397066 0.81620274 2.21776792] w\_new= [-0.03397182 0.81620231 2.21776951]

gradient= [-1.15680645e-04 -4.22490752e-05 1.57929720e-04] w = [-0.03397182 0.81620231 2.21776951] w\_new= [-0.03397298 0.81620189 2.21777109]

gradient= [-1.15519124e-04 -4.21950627e-05 1.57714187e-04] w = [-0.03397298 0.81620189 2.21777109] w\_new= [-0.03397413 0.81620147 2.21777266]

gradient= [-1.15357830e-04 -4.21411183e-05 1.57498949e-04] w = [-0.03397413 0.81620147 2.21777266] w\_new= [-0.03397528 0.81620105 2.21777424]

gradient= [-1.15196762e-04 -4.20872419e-05 1.57284004e-04] w = [-0.03397528 0.81620105 2.21777424] w\_new= [-0.03397644 0.81620063 2.21777581]

gradient= [-1.15035919e-04 -4.20334335e-05 1.57069353e-04] w = [-0.03397644 0.81620063 2.21777581] w\_new= [-0.03397759 0.81620021 2.21777738]

gradient= [-1.14875302e-04 -4.19796928e-05 1.56854995e-04] w = [-0.03397759 0.81620021 2.21777738] w\_new= [-0.03397874 0.81619979 2.21777895]

gradient= [-1.14714909e-04 -4.19260199e-05 1.56640929e-04] w = [-0.03397874 0.81619979 2.21777895] w\_new= [-0.03397988 0.81619937 2.21778052]

gradient= [-1.14554741e-04 -4.18724147e-05 1.56427156e-04] w = [-0.03397988 0.81619937 2.21778052] w\_new= [-0.03398103 0.81619895 2.21778208]

gradient= [-1.14394797e-04 -4.18188770e-05 1.56213674e-04] w = [-0.03398103 0.81619895 2.21778208] w\_new= [-0.03398217 0.81619853 2.21778364]

gradient= [-1.14235077e-04 -4.17654069e-05 1.56000484e-04] w = [-0.03398217 0.81619853 2.21778364] w\_new= [-0.03398331 0.81619811 2.2177852 ]

gradient= [-1.14075581e-04 -4.17120041e-05 1.55787585e-04] w = [-0.03398331 0.81619811 2.2177852 ] w\_new= [-0.03398446 0.8161977 2.21778676]

gradient= [-1.13916308e-04 -4.16586687e-05 1.55574977e-04] w = [-0.03398446 0.8161977 2.21778676] w\_new= [-0.03398559 0.81619728 2.21778832]

gradient= [-1.13757258e-04 -4.16054005e-05 1.55362659e-04] w = [-0.03398559 0.81619728 2.21778832] w\_new= [-0.03398673 0.81619686 2.21778987]

gradient= [-1.13598431e-04 -4.15521995e-05 1.55150630e-04] w = [-0.03398673 0.81619686 2.21778987] w\_new= [-0.03398787 0.81619645 2.21779142]

gradient= [-1.13439826e-04 -4.14990656e-05 1.54938891e-04] w = [-0.03398787 0.81619645 2.21779142] w\_new= [-0.033989 0.81619603 2.21779297]

gradient= [-1.13281443e-04 -4.14459986e-05 1.54727441e-04] w = [-0.033989 0.81619603 2.21779297] w\_new= [-0.03399014 0.81619562 2.21779452]

gradient= [-1.13123282e-04 -4.13929986e-05 1.54516280e-04] w = [-0.03399014 0.81619562 2.21779452] w\_new= [-0.03399127 0.8161952 2.21779606]

gradient= [-1.12965342e-04 -4.13400654e-05 1.54305407e-04] w = [-0.03399127 0.8161952 2.21779606] w\_new= [-0.0339924 0.81619479 2.21779761]

gradient= [-1.12807623e-04 -4.12871990e-05 1.54094822e-04] w = [-0.0339924 0.81619479 2.21779761] w\_new= [-0.03399352 0.81619438 2.21779915]

gradient= [-1.12650125e-04 -4.12343992e-05 1.53884524e-04] w = [-0.03399352 0.81619438 2.21779915] w\_new= [-0.03399465 0.81619396 2.21780069]

gradient= [-1.12492848e-04 -4.11816660e-05 1.53674514e-04] w = [-0.03399465 0.81619396 2.21780069] w\_new= [-0.03399578 0.81619355 2.21780222]

gradient= [-1.12335791e-04 -4.11289993e-05 1.53464790e-04] w = [-0.03399578 0.81619355 2.21780222] w\_new= [-0.0339969 0.81619314 2.21780376]

gradient= [-1.12178953e-04 -4.10763990e-05 1.53255352e-04] w = [-0.0339969 0.81619314 2.21780376] w\_new= [-0.03399802 0.81619273 2.21780529]

gradient= [-1.12022336e-04 -4.10238651e-05 1.53046201e-04] w = [-0.03399802 0.81619273 2.21780529] w\_new= [-0.03399914 0.81619232 2.21780682]

gradient= [-1.11865937e-04 -4.09713974e-05 1.52837334e-04] w = [-0.03399914 0.81619232 2.21780682] w\_new= [-0.03400026 0.81619191 2.21780835]

gradient= [-1.11709758e-04 -4.09189959e-05 1.52628753e-04] w = [-0.03400026 0.81619191 2.21780835] w\_new= [-0.03400138 0.8161915 2.21780988]

gradient= [-1.11553797e-04 -4.08666604e-05 1.52420457e-04] w = [-0.03400138 0.8161915 2.21780988] w\_new= [-0.03400249 0.81619109 2.2178114 ]

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gradient= [-1.10932133e-04 -4.06579779e-05 1.51590111e-04] w = [-0.03400583 0.81618987 2.21781596] w\_new= [-0.03400694 0.81618946 2.21781748]

gradient= [-1.10777261e-04 -4.06059717e-05 1.51383233e-04] w = [-0.03400694 0.81618946 2.21781748] w\_new= [-0.03400805 0.81618906 2.21781899]

gradient= [-1.10622606e-04 -4.05540311e-05 1.51176637e-04] w = [-0.03400805 0.81618906 2.21781899] w\_new= [-0.03400915 0.81618865 2.2178205 ]

gradient= [-1.10468167e-04 -4.05021560e-05 1.50970323e-04] w = [-0.03400915 0.81618865 2.2178205 ] w\_new= [-0.03401026 0.81618825 2.21782201]

gradient= [-1.10313944e-04 -4.04503463e-05 1.50764290e-04] w = [-0.03401026 0.81618825 2.21782201] w\_new= [-0.03401136 0.81618784 2.21782352]

gradient= [-1.10159937e-04 -4.03986020e-05 1.50558539e-04] w = [-0.03401136 0.81618784 2.21782352] w\_new= [-0.03401246 0.81618744 2.21782502]

gradient= [-1.10006146e-04 -4.03469230e-05 1.50353069e-04] w = [-0.03401246 0.81618744 2.21782502] w\_new= [-0.03401356 0.81618704 2.21782653]

gradient= [-1.09852570e-04 -4.02953091e-05 1.50147879e-04] w = [-0.03401356 0.81618704 2.21782653] w\_new= [-0.03401466 0.81618663 2.21782803]

gradient= [-1.09699209e-04 -4.02437604e-05 1.49942969e-04] w = [-0.03401466 0.81618663 2.21782803] w\_new= [-0.03401576 0.81618623 2.21782953]

gradient= [-1.09546062e-04 -4.01922767e-05 1.49738339e-04] w = [-0.03401576 0.81618623 2.21782953] w\_new= [-0.03401685 0.81618583 2.21783103]

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gradient= [-1.08480024e-04 -3.98337050e-05 1.48313728e-04] w = [-0.03402339 0.81618343 2.21783997] w\_new= [-0.03402448 0.81618303 2.21784145]

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gradient= [-1.08177356e-04 -3.97318366e-05 1.47909193e-04] w = [-0.03402556 0.81618263 2.21784293] w\_new= [-0.03402664 0.81618223 2.21784441]

gradient= [-1.08026340e-04 -3.96809988e-05 1.47707339e-04] w = [-0.03402664 0.81618223 2.21784441] w\_new= [-0.03402772 0.81618184 2.21784589]

gradient= [-1.07875535e-04 -3.96302252e-05 1.47505761e-04] w = [-0.03402772 0.81618184 2.21784589] w\_new= [-0.0340288 0.81618144 2.21784736]

gradient= [-1.07724942e-04 -3.95795156e-05 1.47304457e-04] w = [-0.0340288 0.81618144 2.21784736] w\_new= [-0.03402988 0.81618104 2.21784884]

gradient= [-1.07574559e-04 -3.95288700e-05 1.47103429e-04] w = [-0.03402988 0.81618104 2.21784884] w\_new= [-0.03403096 0.81618065 2.21785031]

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gradient= [-1.07124673e-04 -3.93773164e-05 1.46501989e-04] w = [-0.0340331 0.81617986 2.21785324] w\_new= [-0.03403417 0.81617947 2.21785471]

gradient= [-1.06975130e-04 -3.93269260e-05 1.46302056e-04] w = [-0.03403417 0.81617947 2.21785471] w\_new= [-0.03403524 0.81617907 2.21785617]

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gradient= [-1.06230551e-04 -3.90759263e-05 1.45306478e-04] w = [-0.03403951 0.81617751 2.217862 ] w\_new= [-0.03404057 0.81617711 2.21786346]

gradient= [-1.06082260e-04 -3.90259163e-05 1.45108177e-04] w = [-0.03404057 0.81617711 2.21786346] w\_new= [-0.03404163 0.81617672 2.21786491]

gradient= [-1.05934177e-04 -3.89759694e-05 1.44910146e-04] w = [-0.03404163 0.81617672 2.21786491] w\_new= [-0.03404269 0.81617633 2.21786636]

gradient= [-1.05786301e-04 -3.89260856e-05 1.44712386e-04] w = [-0.03404269 0.81617633 2.21786636] w\_new= [-0.03404375 0.81617595 2.2178678 ]

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gradient= [-1.05196863e-04 -3.87271791e-05 1.43924042e-04] w = [-0.03404691 0.81617478 2.21787213] w\_new= [-0.03404797 0.81617439 2.21787357]

gradient= [-1.05050019e-04 -3.86776093e-05 1.43727628e-04] w = [-0.03404797 0.81617439 2.21787357] w\_new= [-0.03404902 0.81617401 2.21787501]

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gradient= [-1.04756946e-04 -3.85786574e-05 1.43335604e-04] w = [-0.03405006 0.81617362 2.21787644] w\_new= [-0.03405111 0.81617323 2.21787788]

gradient= [-1.04610718e-04 -3.85292751e-05 1.43139993e-04] w = [-0.03405111 0.81617323 2.21787788] w\_new= [-0.03405216 0.81617285 2.21787931]

gradient= [-1.04464694e-04 -3.84799552e-05 1.42944649e-04] w = [-0.03405216 0.81617285 2.21787931] w\_new= [-0.0340532 0.81617246 2.21788074]

gradient= [-1.04318875e-04 -3.84306975e-05 1.42749572e-04] w = [-0.0340532 0.81617246 2.21788074] w\_new= [-0.03405425 0.81617208 2.21788217]

gradient= [-1.04173259e-04 -3.83815021e-05 1.42554761e-04] w = [-0.03405425 0.81617208 2.21788217] w\_new= [-0.03405529 0.8161717 2.21788359]

gradient= [-1.04027848e-04 -3.83323687e-05 1.42360217e-04] w = [-0.03405529 0.8161717 2.21788359] w\_new= [-0.03405633 0.81617131 2.21788502]

gradient= [-1.03882640e-04 -3.82832974e-05 1.42165937e-04] w = [-0.03405633 0.81617131 2.21788502] w\_new= [-0.03405737 0.81617093 2.21788644]

gradient= [-1.03737635e-04 -3.82342880e-05 1.41971923e-04] w = [-0.03405737 0.81617093 2.21788644] w\_new= [-0.0340584 0.81617055 2.21788786]

gradient= [-1.03592833e-04 -3.81853405e-05 1.41778174e-04] w = [-0.0340584 0.81617055 2.21788786] w\_new= [-0.03405944 0.81617017 2.21788927]

gradient= [-1.03448234e-04 -3.81364548e-05 1.41584689e-04] w = [-0.03405944 0.81617017 2.21788927] w\_new= [-0.03406048 0.81616978 2.21789069]

gradient= [-1.03303837e-04 -3.80876309e-05 1.41391468e-04] w = [-0.03406048 0.81616978 2.21789069] w\_new= [-0.03406151 0.8161694 2.2178921 ]

gradient= [-1.03159643e-04 -3.80388686e-05 1.41198511e-04] w = [-0.03406151 0.8161694 2.2178921 ] w\_new= [-0.03406254 0.81616902 2.21789352]

gradient= [-1.03015650e-04 -3.79901679e-05 1.41005818e-04] w = [-0.03406254 0.81616902 2.21789352] w\_new= [-0.03406357 0.81616864 2.21789493]

gradient= [-1.02871858e-04 -3.79415287e-05 1.40813387e-04] w = [-0.03406357 0.81616864 2.21789493] w\_new= [-0.0340646 0.81616826 2.21789633]

gradient= [-1.02728268e-04 -3.78929509e-05 1.40621219e-04] w = [-0.0340646 0.81616826 2.21789633] w\_new= [-0.03406563 0.81616788 2.21789774]

gradient= [-1.02584879e-04 -3.78444344e-05 1.40429314e-04] w = [-0.03406563 0.81616788 2.21789774] w\_new= [-0.03406665 0.81616751 2.21789915]

gradient= [-1.02441691e-04 -3.77959792e-05 1.40237670e-04] w = [-0.03406665 0.81616751 2.21789915] w\_new= [-0.03406768 0.81616713 2.21790055]

gradient= [-1.02298703e-04 -3.77475853e-05 1.40046288e-04] w = [-0.03406768 0.81616713 2.21790055] w\_new= [-0.0340687 0.81616675 2.21790195]

gradient= [-1.02155915e-04 -3.76992524e-05 1.39855167e-04] w = [-0.0340687 0.81616675 2.21790195] w\_new= [-0.03406972 0.81616637 2.21790335]

gradient= [-1.02013326e-04 -3.76509806e-05 1.39664307e-04] w = [-0.03406972 0.81616637 2.21790335] w\_new= [-0.03407074 0.816166 2.21790474]

gradient= [-1.01870938e-04 -3.76027697e-05 1.39473708e-04] w = [-0.03407074 0.816166 2.21790474] w\_new= [-0.03407176 0.81616562 2.21790614]

gradient= [-1.01728749e-04 -3.75546198e-05 1.39283368e-04] w = [-0.03407176 0.81616562 2.21790614] w\_new= [-0.03407278 0.81616525 2.21790753]

gradient= [-1.01586758e-04 -3.75065306e-05 1.39093289e-04] w = [-0.03407278 0.81616525 2.21790753] w\_new= [-0.03407379 0.81616487 2.21790892]

gradient= [-1.01444967e-04 -3.74585022e-05 1.38903469e-04] w = [-0.03407379 0.81616487 2.21790892] w\_new= [-0.03407481 0.8161645 2.21791031]

gradient= [-1.01303374e-04 -3.74105345e-05 1.38713908e-04] w = [-0.03407481 0.8161645 2.21791031] w\_new= [-0.03407582 0.81616412 2.2179117 ]

gradient= [-1.01161979e-04 -3.73626273e-05 1.38524606e-04] w = [-0.03407582 0.81616412 2.2179117 ] w\_new= [-0.03407683 0.81616375 2.21791308]

gradient= [-1.01020781e-04 -3.73147807e-05 1.38335562e-04] w = [-0.03407683 0.81616375 2.21791308] w\_new= [-0.03407784 0.81616338 2.21791447]

gradient= [-1.00879782e-04 -3.72669945e-05 1.38146776e-04] w = [-0.03407784 0.81616338 2.21791447] w\_new= [-0.03407885 0.816163 2.21791585]

gradient= [-1.00738980e-04 -3.72192687e-05 1.37958248e-04] w = [-0.03407885 0.816163 2.21791585] w\_new= [-0.03407986 0.81616263 2.21791723]

gradient= [-1.00598375e-04 -3.71716031e-05 1.37769978e-04] w = [-0.03407986 0.81616263 2.21791723] w\_new= [-0.03408086 0.81616226 2.21791861]

gradient= [-1.00457966e-04 -3.71239978e-05 1.37581964e-04] w = [-0.03408086 0.81616226 2.21791861] w\_new= [-0.03408187 0.81616189 2.21791998]

gradient= [-1.00317754e-04 -3.70764526e-05 1.37394207e-04] w = [-0.03408187 0.81616189 2.21791998] w\_new= [-0.03408287 0.81616152 2.21792136]

gradient= [-1.00177739e-04 -3.70289675e-05 1.37206706e-04] w = [-0.03408287 0.81616152 2.21792136] w\_new= [-0.03408387 0.81616115 2.21792273]

gradient= [-1.00037919e-04 -3.69815424e-05 1.37019461e-04] w = [-0.03408387 0.81616115 2.21792273] w\_new= [-0.03408487 0.81616078 2.2179241 ]

gradient= [-9.98982948e-05 -3.69341772e-05 1.36832472e-04] w = [-0.03408487 0.81616078 2.2179241 ] w\_new= [-0.03408587 0.81616041 2.21792547]

gradient= [-9.97588662e-05 -3.68868718e-05 1.36645738e-04] w = [-0.03408587 0.81616041 2.21792547] w\_new= [-0.03408687 0.81616004 2.21792683]

gradient= [-9.96196326e-05 -3.68396262e-05 1.36459259e-04] w = [-0.03408687 0.81616004 2.21792683] w\_new= [-0.03408787 0.81615967 2.2179282 ]

gradient= [-9.94805939e-05 -3.67924403e-05 1.36273034e-04] w = [-0.03408787 0.81615967 2.2179282 ] w\_new= [-0.03408886 0.8161593 2.21792956]

gradient= [-9.93417498e-05 -3.67453140e-05 1.36087064e-04] w = [-0.03408886 0.8161593 2.21792956] w\_new= [-0.03408986 0.81615893 2.21793092]

gradient= [-9.92030999e-05 -3.66982473e-05 1.35901347e-04] w = [-0.03408986 0.81615893 2.21793092] w\_new= [-0.03409085 0.81615857 2.21793228]

gradient= [-9.90646441e-05 -3.66512400e-05 1.35715884e-04] w = [-0.03409085 0.81615857 2.21793228] w\_new= [-0.03409184 0.8161582 2.21793364]

gradient= [-9.89263821e-05 -3.66042922e-05 1.35530674e-04] w = [-0.03409184 0.8161582 2.21793364] w\_new= [-0.03409283 0.81615784 2.21793499]

gradient= [-9.87883135e-05 -3.65574036e-05 1.35345717e-04] w = [-0.03409283 0.81615784 2.21793499] w\_new= [-0.03409381 0.81615747 2.21793635]

gradient= [-9.86504381e-05 -3.65105743e-05 1.35161012e-04] w = [-0.03409381 0.81615747 2.21793635] w\_new= [-0.0340948 0.8161571 2.2179377]

gradient= [-9.85127557e-05 -3.64638042e-05 1.34976560e-04] w = [-0.0340948 0.8161571 2.2179377] w\_new= [-0.03409579 0.81615674 2.21793905]

gradient= [-9.83752659e-05 -3.64170932e-05 1.34792359e-04] w = [-0.03409579 0.81615674 2.21793905] w\_new= [-0.03409677 0.81615638 2.21794039]

gradient= [-9.82379686e-05 -3.63704412e-05 1.34608410e-04] w = [-0.03409677 0.81615638 2.21794039] w\_new= [-0.03409775 0.81615601 2.21794174]

gradient= [-9.81008633e-05 -3.63238482e-05 1.34424711e-04] w = [-0.03409775 0.81615601 2.21794174] w\_new= [-0.03409873 0.81615565 2.21794308]

gradient= [-9.79639499e-05 -3.62773140e-05 1.34241264e-04] w = [-0.03409873 0.81615565 2.21794308] w\_new= [-0.03409971 0.81615529 2.21794443]

gradient= [-9.78272281e-05 -3.62308387e-05 1.34058067e-04] w = [-0.03409971 0.81615529 2.21794443] w\_new= [-0.03410069 0.81615492 2.21794577]

gradient= [-9.76906976e-05 -3.61844221e-05 1.33875120e-04] w = [-0.03410069 0.81615492 2.21794577] w\_new= [-0.03410167 0.81615456 2.21794711]

gradient= [-9.75543582e-05 -3.61380642e-05 1.33692422e-04] w = [-0.03410167 0.81615456 2.21794711] w\_new= [-0.03410264 0.8161542 2.21794844]

gradient= [-9.74182096e-05 -3.60917648e-05 1.33509974e-04] w = [-0.03410264 0.8161542 2.21794844] w\_new= [-0.03410362 0.81615384 2.21794978]

gradient= [-9.72822514e-05 -3.60455240e-05 1.33327775e-04] w = [-0.03410362 0.81615384 2.21794978] w\_new= [-0.03410459 0.81615348 2.21795111]

gradient= [-9.71464835e-05 -3.59993416e-05 1.33145825e-04] w = [-0.03410459 0.81615348 2.21795111] w\_new= [-0.03410556 0.81615312 2.21795244]

gradient= [-9.70109056e-05 -3.59532176e-05 1.32964123e-04] w = [-0.03410556 0.81615312 2.21795244] w\_new= [-0.03410653 0.81615276 2.21795377]

gradient= [-9.68755174e-05 -3.59071519e-05 1.32782669e-04] w = [-0.03410653 0.81615276 2.21795377] w\_new= [-0.0341075 0.8161524 2.2179551]

gradient= [-9.67403187e-05 -3.58611444e-05 1.32601463e-04] w = [-0.0341075 0.8161524 2.2179551] w\_new= [-0.03410847 0.81615204 2.21795643]

gradient= [-9.66053091e-05 -3.58151951e-05 1.32420504e-04] w = [-0.03410847 0.81615204 2.21795643] w\_new= [-0.03410943 0.81615168 2.21795775]

gradient= [-9.64704884e-05 -3.57693039e-05 1.32239792e-04] w = [-0.03410943 0.81615168 2.21795775] w\_new= [-0.0341104 0.81615133 2.21795907]

gradient= [-9.63358564e-05 -3.57234706e-05 1.32059327e-04] w = [-0.0341104 0.81615133 2.21795907] w\_new= [-0.03411136 0.81615097 2.21796039]

gradient= [-9.62014128e-05 -3.56776954e-05 1.31879108e-04] w = [-0.03411136 0.81615097 2.21796039] w\_new= [-0.03411232 0.81615061 2.21796171]

gradient= [-9.60671573e-05 -3.56319779e-05 1.31699135e-04] w = [-0.03411232 0.81615061 2.21796171] w\_new= [-0.03411329 0.81615026 2.21796303]

gradient= [-9.59330896e-05 -3.55863183e-05 1.31519408e-04] w = [-0.03411329 0.81615026 2.21796303] w\_new= [-0.03411424 0.8161499 2.21796435]

gradient= [-9.57992096e-05 -3.55407164e-05 1.31339926e-04] w = [-0.03411424 0.8161499 2.21796435] w\_new= [-0.0341152 0.81614954 2.21796566]

gradient= [-9.56655169e-05 -3.54951722e-05 1.31160689e-04] w = [-0.0341152 0.81614954 2.21796566] w\_new= [-0.03411616 0.81614919 2.21796697]

gradient= [-9.55320112e-05 -3.54496855e-05 1.30981697e-04] w = [-0.03411616 0.81614919 2.21796697] w\_new= [-0.03411711 0.81614883 2.21796828]

gradient= [-9.53986923e-05 -3.54042563e-05 1.30802949e-04] w = [-0.03411711 0.81614883 2.21796828] w\_new= [-0.03411807 0.81614848 2.21796959]

gradient= [-9.52655600e-05 -3.53588846e-05 1.30624445e-04] w = [-0.03411807 0.81614848 2.21796959] w\_new= [-0.03411902 0.81614813 2.21797089]

gradient= [-9.51326140e-05 -3.53135703e-05 1.30446184e-04] w = [-0.03411902 0.81614813 2.21797089] w\_new= [-0.03411997 0.81614777 2.2179722 ]

gradient= [-9.49998539e-05 -3.52683132e-05 1.30268167e-04] w = [-0.03411997 0.81614777 2.2179722 ] w\_new= [-0.03412092 0.81614742 2.2179735 ]

gradient= [-9.48672797e-05 -3.52231134e-05 1.30090393e-04] w = [-0.03412092 0.81614742 2.2179735 ] w\_new= [-0.03412187 0.81614707 2.2179748 ]

gradient= [-9.47348909e-05 -3.51779707e-05 1.29912862e-04] w = [-0.03412187 0.81614707 2.2179748 ] w\_new= [-0.03412282 0.81614672 2.2179761 ]

gradient= [-9.46026874e-05 -3.51328851e-05 1.29735572e-04] w = [-0.03412282 0.81614672 2.2179761 ] w\_new= [-0.03412376 0.81614637 2.2179774 ]

gradient= [-9.44706688e-05 -3.50878565e-05 1.29558525e-04] w = [-0.03412376 0.81614637 2.2179774 ] w\_new= [-0.03412471 0.81614602 2.21797869]

gradient= [-9.43388350e-05 -3.50428848e-05 1.29381720e-04] w = [-0.03412471 0.81614602 2.21797869] w\_new= [-0.03412565 0.81614566 2.21797999]

gradient= [-9.42071856e-05 -3.49979700e-05 1.29205156e-04] w = [-0.03412565 0.81614566 2.21797999] w\_new= [-0.0341266 0.81614531 2.21798128]

gradient= [-9.40757204e-05 -3.49531120e-05 1.29028832e-04] w = [-0.0341266 0.81614531 2.21798128] w\_new= [-0.03412754 0.81614497 2.21798257]

gradient= [-9.39444392e-05 -3.49083108e-05 1.28852750e-04] w = [-0.03412754 0.81614497 2.21798257] w\_new= [-0.03412848 0.81614462 2.21798386]

gradient= [-9.38133416e-05 -3.48635662e-05 1.28676908e-04] w = [-0.03412848 0.81614462 2.21798386] w\_new= [-0.03412941 0.81614427 2.21798515]

gradient= [-9.36824275e-05 -3.48188781e-05 1.28501306e-04] w = [-0.03412941 0.81614427 2.21798515] w\_new= [-0.03413035 0.81614392 2.21798643]

gradient= [-9.35516965e-05 -3.47742466e-05 1.28325943e-04] w = [-0.03413035 0.81614392 2.21798643] w\_new= [-0.03413129 0.81614357 2.21798771]

gradient= [-9.34211484e-05 -3.47296716e-05 1.28150820e-04] w = [-0.03413129 0.81614357 2.21798771] w\_new= [-0.03413222 0.81614322 2.217989 ]

gradient= [-9.32907830e-05 -3.46851529e-05 1.27975936e-04] w = [-0.03413222 0.81614322 2.217989 ] w\_new= [-0.03413315 0.81614288 2.21799028]

gradient= [-9.31606000e-05 -3.46406905e-05 1.27801290e-04] w = [-0.03413315 0.81614288 2.21799028] w\_new= [-0.03413408 0.81614253 2.21799155]

gradient= [-9.30305991e-05 -3.45962844e-05 1.27626883e-04] w = [-0.03413408 0.81614253 2.21799155] w\_new= [-0.03413501 0.81614219 2.21799283]

gradient= [-9.29007801e-05 -3.45519344e-05 1.27452714e-04] w = [-0.03413501 0.81614219 2.21799283] w\_new= [-0.03413594 0.81614184 2.2179941 ]

gradient= [-9.27711427e-05 -3.45076405e-05 1.27278783e-04] w = [-0.03413594 0.81614184 2.2179941 ] w\_new= [-0.03413687 0.81614149 2.21799538]

gradient= [-9.26416867e-05 -3.44634027e-05 1.27105089e-04] w = [-0.03413687 0.81614149 2.21799538] w\_new= [-0.0341378 0.81614115 2.21799665]

gradient= [-9.25124118e-05 -3.44192208e-05 1.26931633e-04] w = [-0.0341378 0.81614115 2.21799665] w\_new= [-0.03413872 0.81614081 2.21799792]

gradient= [-9.23833178e-05 -3.43750948e-05 1.26758413e-04] w = [-0.03413872 0.81614081 2.21799792] w\_new= [-0.03413965 0.81614046 2.21799918]

gradient= [-9.22544044e-05 -3.43310246e-05 1.26585429e-04] w = [-0.03413965 0.81614046 2.21799918] w\_new= [-0.03414057 0.81614012 2.21800045]

gradient= [-9.21256714e-05 -3.42870101e-05 1.26412682e-04] w = [-0.03414057 0.81614012 2.21800045] w\_new= [-0.03414149 0.81613978 2.21800171]

gradient= [-9.19971185e-05 -3.42430513e-05 1.26240170e-04] w = [-0.03414149 0.81613978 2.21800171] w\_new= [-0.03414241 0.81613943 2.21800298]

gradient= [-9.18687454e-05 -3.41991482e-05 1.26067894e-04] w = [-0.03414241 0.81613943 2.21800298] w\_new= [-0.03414333 0.81613909 2.21800424]

gradient= [-9.17405519e-05 -3.41553006e-05 1.25895852e-04] w = [-0.03414333 0.81613909 2.21800424] w\_new= [-0.03414425 0.81613875 2.2180055 ]

gradient= [-9.16125377e-05 -3.41115084e-05 1.25724046e-04] w = [-0.03414425 0.81613875 2.2180055 ] w\_new= [-0.03414516 0.81613841 2.21800675]

gradient= [-9.14847027e-05 -3.40677717e-05 1.25552474e-04] w = [-0.03414516 0.81613841 2.21800675] w\_new= [-0.03414608 0.81613807 2.21800801]

gradient= [-9.13570465e-05 -3.40240903e-05 1.25381137e-04] w = [-0.03414608 0.81613807 2.21800801] w\_new= [-0.03414699 0.81613773 2.21800926]

gradient= [-9.12295689e-05 -3.39804641e-05 1.25210033e-04] w = [-0.03414699 0.81613773 2.21800926] w\_new= [-0.0341479 0.81613739 2.21801052]

gradient= [-9.11022696e-05 -3.39368932e-05 1.25039163e-04] w = [-0.0341479 0.81613739 2.21801052] w\_new= [-0.03414881 0.81613705 2.21801177]

gradient= [-9.09751485e-05 -3.38933773e-05 1.24868526e-04] w = [-0.03414881 0.81613705 2.21801177] w\_new= [-0.03414972 0.81613671 2.21801301]

gradient= [-9.08482051e-05 -3.38499166e-05 1.24698122e-04] w = [-0.03414972 0.81613671 2.21801301] w\_new= [-0.03415063 0.81613637 2.21801426]

gradient= [-9.07214394e-05 -3.38065108e-05 1.24527950e-04] w = [-0.03415063 0.81613637 2.21801426] w\_new= [-0.03415154 0.81613603 2.21801551]

gradient= [-9.05948510e-05 -3.37631599e-05 1.24358011e-04] w = [-0.03415154 0.81613603 2.21801551] w\_new= [-0.03415245 0.8161357 2.21801675]

gradient= [-9.04684397e-05 -3.37198639e-05 1.24188304e-04] w = [-0.03415245 0.8161357 2.21801675] w\_new= [-0.03415335 0.81613536 2.21801799]

gradient= [-9.03422053e-05 -3.36766227e-05 1.24018828e-04] w = [-0.03415335 0.81613536 2.21801799] w\_new= [-0.03415425 0.81613502 2.21801923]

gradient= [-9.02161474e-05 -3.36334362e-05 1.23849584e-04] w = [-0.03415425 0.81613502 2.21801923] w\_new= [-0.03415516 0.81613469 2.21802047]

gradient= [-9.00902659e-05 -3.35903043e-05 1.23680570e-04] w = [-0.03415516 0.81613469 2.21802047] w\_new= [-0.03415606 0.81613435 2.21802171]

gradient= [-8.99645605e-05 -3.35472271e-05 1.23511788e-04] w = [-0.03415606 0.81613435 2.21802171] w\_new= [-0.03415696 0.81613401 2.21802294]

gradient= [-8.98390310e-05 -3.35042043e-05 1.23343235e-04] w = [-0.03415696 0.81613401 2.21802294] w\_new= [-0.03415786 0.81613368 2.21802418]

gradient= [-8.97136770e-05 -3.34612360e-05 1.23174913e-04] w = [-0.03415786 0.81613368 2.21802418] w\_new= [-0.03415875 0.81613334 2.21802541]

gradient= [-8.95884984e-05 -3.34183221e-05 1.23006821e-04] w = [-0.03415875 0.81613334 2.21802541] w\_new= [-0.03415965 0.81613301 2.21802664]

gradient= [-8.94634950e-05 -3.33754624e-05 1.22838957e-04] w = [-0.03415965 0.81613301 2.21802664] w\_new= [-0.03416054 0.81613268 2.21802787]

gradient= [-8.93386664e-05 -3.33326570e-05 1.22671323e-04] w = [-0.03416054 0.81613268 2.21802787] w\_new= [-0.03416144 0.81613234 2.21802909]

gradient= [-8.92140124e-05 -3.32899058e-05 1.22503918e-04] w = [-0.03416144 0.81613234 2.21802909] w\_new= [-0.03416233 0.81613201 2.21803032]

gradient= [-8.90895329e-05 -3.32472087e-05 1.22336742e-04] w = [-0.03416233 0.81613201 2.21803032] w\_new= [-0.03416322 0.81613168 2.21803154]

gradient= [-8.89652274e-05 -3.32045657e-05 1.22169793e-04] w = [-0.03416322 0.81613168 2.21803154] w\_new= [-0.03416411 0.81613135 2.21803276]

gradient= [-8.88410959e-05 -3.31619766e-05 1.22003072e-04] w = [-0.03416411 0.81613135 2.21803276] w\_new= [-0.034165 0.81613101 2.21803398]

gradient= [-8.87171379e-05 -3.31194414e-05 1.21836579e-04] w = [-0.034165 0.81613101 2.21803398] w\_new= [-0.03416588 0.81613068 2.2180352 ]

gradient= [-8.85933534e-05 -3.30769600e-05 1.21670313e-04] w = [-0.03416588 0.81613068 2.2180352 ] w\_new= [-0.03416677 0.81613035 2.21803642]

gradient= [-8.84697421e-05 -3.30345324e-05 1.21504275e-04] w = [-0.03416677 0.81613035 2.21803642] w\_new= [-0.03416766 0.81613002 2.21803763]

gradient= [-8.83463037e-05 -3.29921586e-05 1.21338462e-04] w = [-0.03416766 0.81613002 2.21803763] w\_new= [-0.03416854 0.81612969 2.21803885]

gradient= [-8.82230379e-05 -3.29498383e-05 1.21172876e-04] w = [-0.03416854 0.81612969 2.21803885] w\_new= [-0.03416942 0.81612936 2.21804006]

gradient= [-8.80999446e-05 -3.29075717e-05 1.21007516e-04] w = [-0.03416942 0.81612936 2.21804006] w\_new= [-0.0341703 0.81612903 2.21804127]

gradient= [-8.79770235e-05 -3.28653585e-05 1.20842382e-04] w = [-0.0341703 0.81612903 2.21804127] w\_new= [-0.03417118 0.8161287 2.21804248]

gradient= [-8.78542743e-05 -3.28231988e-05 1.20677473e-04] w = [-0.03417118 0.8161287 2.21804248] w\_new= [-0.03417206 0.81612838 2.21804368]

gradient= [-8.77316968e-05 -3.27810924e-05 1.20512789e-04] w = [-0.03417206 0.81612838 2.21804368] w\_new= [-0.03417294 0.81612805 2.21804489]

gradient= [-8.76092908e-05 -3.27390394e-05 1.20348330e-04] w = [-0.03417294 0.81612805 2.21804489] w\_new= [-0.03417381 0.81612772 2.21804609]

gradient= [-8.74870560e-05 -3.26970396e-05 1.20184096e-04] w = [-0.03417381 0.81612772 2.21804609] w\_new= [-0.03417469 0.81612739 2.21804729]

gradient= [-8.73649922e-05 -3.26550929e-05 1.20020085e-04] w = [-0.03417469 0.81612739 2.21804729] w\_new= [-0.03417556 0.81612707 2.21804849]

gradient= [-8.72430991e-05 -3.26131994e-05 1.19856299e-04] w = [-0.03417556 0.81612707 2.21804849] w\_new= [-0.03417643 0.81612674 2.21804969]

gradient= [-8.71213766e-05 -3.25713589e-05 1.19692735e-04] w = [-0.03417643 0.81612674 2.21804969] w\_new= [-0.03417731 0.81612642 2.21805089]

gradient= [-8.69998243e-05 -3.25295714e-05 1.19529396e-04] w = [-0.03417731 0.81612642 2.21805089] w\_new= [-0.03417818 0.81612609 2.21805209]

gradient= [-8.68784421e-05 -3.24878367e-05 1.19366279e-04] w = [-0.03417818 0.81612609 2.21805209] w\_new= [-0.03417904 0.81612577 2.21805328]

gradient= [-8.67572296e-05 -3.24461550e-05 1.19203385e-04] w = [-0.03417904 0.81612577 2.21805328] w\_new= [-0.03417991 0.81612544 2.21805447]

gradient= [-8.66361867e-05 -3.24045260e-05 1.19040713e-04] w = [-0.03417991 0.81612544 2.21805447] w\_new= [-0.03418078 0.81612512 2.21805566]

gradient= [-8.65153131e-05 -3.23629497e-05 1.18878263e-04] w = [-0.03418078 0.81612512 2.21805566] w\_new= [-0.03418164 0.81612479 2.21805685]

gradient= [-8.63946086e-05 -3.23214260e-05 1.18716035e-04] w = [-0.03418164 0.81612479 2.21805685] w\_new= [-0.03418251 0.81612447 2.21805804]

gradient= [-8.62740729e-05 -3.22799550e-05 1.18554028e-04] w = [-0.03418251 0.81612447 2.21805804] w\_new= [-0.03418337 0.81612415 2.21805922]

gradient= [-8.61537058e-05 -3.22385364e-05 1.18392242e-04] w = [-0.03418337 0.81612415 2.21805922] w\_new= [-0.03418423 0.81612382 2.21806041]

gradient= [-8.60335071e-05 -3.21971703e-05 1.18230677e-04] w = [-0.03418423 0.81612382 2.21806041] w\_new= [-0.03418509 0.8161235 2.21806159]

gradient= [-8.59134765e-05 -3.21558566e-05 1.18069333e-04] w = [-0.03418509 0.8161235 2.21806159] w\_new= [-0.03418595 0.81612318 2.21806277]

gradient= [-8.57936138e-05 -3.21145952e-05 1.17908209e-04] w = [-0.03418595 0.81612318 2.21806277] w\_new= [-0.03418681 0.81612286 2.21806395]

gradient= [-8.56739187e-05 -3.20733861e-05 1.17747305e-04] w = [-0.03418681 0.81612286 2.21806395] w\_new= [-0.03418767 0.81612254 2.21806513]

gradient= [-8.55543911e-05 -3.20322291e-05 1.17586620e-04] w = [-0.03418767 0.81612254 2.21806513] w\_new= [-0.03418852 0.81612222 2.2180663 ]

gradient= [-8.54350307e-05 -3.19911242e-05 1.17426155e-04] w = [-0.03418852 0.81612222 2.2180663 ] w\_new= [-0.03418938 0.8161219 2.21806748]

gradient= [-8.53158372e-05 -3.19500715e-05 1.17265909e-04] w = [-0.03418938 0.8161219 2.21806748] w\_new= [-0.03419023 0.81612158 2.21806865]

gradient= [-8.51968104e-05 -3.19090707e-05 1.17105881e-04] w = [-0.03419023 0.81612158 2.21806865] w\_new= [-0.03419108 0.81612126 2.21806982]

gradient= [-8.50779501e-05 -3.18681218e-05 1.16946072e-04] w = [-0.03419108 0.81612126 2.21806982] w\_new= [-0.03419193 0.81612094 2.21807099]

gradient= [-8.49592561e-05 -3.18272248e-05 1.16786481e-04] w = [-0.03419193 0.81612094 2.21807099] w\_new= [-0.03419278 0.81612062 2.21807216]

gradient= [-8.48407281e-05 -3.17863796e-05 1.16627108e-04] w = [-0.03419278 0.81612062 2.21807216] w\_new= [-0.03419363 0.81612031 2.21807332]

gradient= [-8.47223659e-05 -3.17455861e-05 1.16467952e-04] w = [-0.03419363 0.81612031 2.21807332] w\_new= [-0.03419448 0.81611999 2.21807449]

gradient= [-8.46041692e-05 -3.17048443e-05 1.16309014e-04] w = [-0.03419448 0.81611999 2.21807449] w\_new= [-0.03419532 0.81611967 2.21807565]

gradient= [-8.44861378e-05 -3.16641542e-05 1.16150292e-04] w = [-0.03419532 0.81611967 2.21807565] w\_new= [-0.03419617 0.81611935 2.21807681]

gradient= [-8.43682716e-05 -3.16235155e-05 1.15991787e-04] w = [-0.03419617 0.81611935 2.21807681] w\_new= [-0.03419701 0.81611904 2.21807797]

gradient= [-8.42505701e-05 -3.15829283e-05 1.15833498e-04] w = [-0.03419701 0.81611904 2.21807797] w\_new= [-0.03419785 0.81611872 2.21807913]

gradient= [-8.41330334e-05 -3.15423926e-05 1.15675426e-04] w = [-0.03419785 0.81611872 2.21807913] w\_new= [-0.0341987 0.81611841 2.21808029]

gradient= [-8.40156610e-05 -3.15019082e-05 1.15517569e-04] w = [-0.0341987 0.81611841 2.21808029] w\_new= [-0.03419954 0.81611809 2.21808144]

gradient= [-8.38984527e-05 -3.14614750e-05 1.15359928e-04] w = [-0.03419954 0.81611809 2.21808144] w\_new= [-0.03420037 0.81611778 2.2180826 ]

gradient= [-8.37814084e-05 -3.14210931e-05 1.15202502e-04] w = [-0.03420037 0.81611778 2.2180826 ] w\_new= [-0.03420121 0.81611746 2.21808375]

gradient= [-8.36645278e-05 -3.13807624e-05 1.15045290e-04] w = [-0.03420121 0.81611746 2.21808375] w\_new= [-0.03420205 0.81611715 2.2180849 ]

gradient= [-8.35478107e-05 -3.13404827e-05 1.14888293e-04] w = [-0.03420205 0.81611715 2.2180849 ] w\_new= [-0.03420288 0.81611684 2.21808605]

gradient= [-8.34312568e-05 -3.13002541e-05 1.14731511e-04] w = [-0.03420288 0.81611684 2.21808605] w\_new= [-0.03420372 0.81611652 2.2180872 ]

gradient= [-8.33148660e-05 -3.12600764e-05 1.14574942e-04] w = [-0.03420372 0.81611652 2.2180872 ] w\_new= [-0.03420455 0.81611621 2.21808834]

gradient= [-8.31986379e-05 -3.12199497e-05 1.14418588e-04] w = [-0.03420455 0.81611621 2.21808834] w\_new= [-0.03420538 0.8161159 2.21808949]

gradient= [-8.30825724e-05 -3.11798737e-05 1.14262446e-04] w = [-0.03420538 0.8161159 2.21808949] w\_new= [-0.03420621 0.81611559 2.21809063]

gradient= [-8.29666692e-05 -3.11398486e-05 1.14106518e-04] w = [-0.03420621 0.81611559 2.21809063] w\_new= [-0.03420704 0.81611528 2.21809177]

gradient= [-8.28509281e-05 -3.10998742e-05 1.13950802e-04] w = [-0.03420704 0.81611528 2.21809177] w\_new= [-0.03420787 0.81611496 2.21809291]

gradient= [-8.27353489e-05 -3.10599504e-05 1.13795299e-04] w = [-0.03420787 0.81611496 2.21809291] w\_new= [-0.0342087 0.81611465 2.21809405]

gradient= [-8.26199313e-05 -3.10200772e-05 1.13640008e-04] w = [-0.0342087 0.81611465 2.21809405] w\_new= [-0.03420953 0.81611434 2.21809518]

gradient= [-8.25046752e-05 -3.09802545e-05 1.13484930e-04] w = [-0.03420953 0.81611434 2.21809518] w\_new= [-0.03421035 0.81611403 2.21809632]

gradient= [-8.23895802e-05 -3.09404823e-05 1.13330062e-04] w = [-0.03421035 0.81611403 2.21809632] w\_new= [-0.03421118 0.81611372 2.21809745]

gradient= [-8.22746462e-05 -3.09007605e-05 1.13175407e-04] w = [-0.03421118 0.81611372 2.21809745] w\_new= [-0.034212 0.81611342 2.21809858]

gradient= [-8.21598730e-05 -3.08610890e-05 1.13020962e-04] w = [-0.034212 0.81611342 2.21809858] w\_new= [-0.03421282 0.81611311 2.21809971]

gradient= [-8.20452602e-05 -3.08214678e-05 1.12866728e-04] w = [-0.03421282 0.81611311 2.21809971] w\_new= [-0.03421364 0.8161128 2.21810084]

gradient= [-8.19308078e-05 -3.07818968e-05 1.12712705e-04] w = [-0.03421364 0.8161128 2.21810084] w\_new= [-0.03421446 0.81611249 2.21810197]

gradient= [-8.18165154e-05 -3.07423759e-05 1.12558891e-04] w = [-0.03421446 0.81611249 2.21810197] w\_new= [-0.03421528 0.81611218 2.21810309]

gradient= [-8.17023829e-05 -3.07029052e-05 1.12405288e-04] w = [-0.03421528 0.81611218 2.21810309] w\_new= [-0.03421609 0.81611188 2.21810422]

gradient= [-8.15884100e-05 -3.06634844e-05 1.12251894e-04] w = [-0.03421609 0.81611188 2.21810422] w\_new= [-0.03421691 0.81611157 2.21810534]

gradient= [-8.14745965e-05 -3.06241136e-05 1.12098710e-04] w = [-0.03421691 0.81611157 2.21810534] w\_new= [-0.03421773 0.81611126 2.21810646]

gradient= [-8.13609421e-05 -3.05847927e-05 1.11945735e-04] w = [-0.03421773 0.81611126 2.21810646] w\_new= [-0.03421854 0.81611096 2.21810758]

gradient= [-8.12474467e-05 -3.05455217e-05 1.11792968e-04] w = [-0.03421854 0.81611096 2.21810758] w\_new= [-0.03421935 0.81611065 2.2181087 ]

gradient= [-8.11341101e-05 -3.05063004e-05 1.11640410e-04] w = [-0.03421935 0.81611065 2.2181087 ] w\_new= [-0.03422016 0.81611035 2.21810982]

gradient= [-8.10209319e-05 -3.04671288e-05 1.11488061e-04] w = [-0.03422016 0.81611035 2.21810982] w\_new= [-0.03422097 0.81611004 2.21811093]

gradient= [-8.09079120e-05 -3.04280069e-05 1.11335919e-04] w = [-0.03422097 0.81611004 2.21811093] w\_new= [-0.03422178 0.81610974 2.21811204]

gradient= [-8.07950502e-05 -3.03889345e-05 1.11183985e-04] w = [-0.03422178 0.81610974 2.21811204] w\_new= [-0.03422259 0.81610943 2.21811316]

gradient= [-8.06823462e-05 -3.03499117e-05 1.11032258e-04] w = [-0.03422259 0.81610943 2.21811316] w\_new= [-0.0342234 0.81610913 2.21811427]

gradient= [-8.05697998e-05 -3.03109384e-05 1.10880738e-04] w = [-0.0342234 0.81610913 2.21811427] w\_new= [-0.0342242 0.81610883 2.21811538]

gradient= [-8.04574108e-05 -3.02720144e-05 1.10729425e-04] w = [-0.0342242 0.81610883 2.21811538] w\_new= [-0.03422501 0.81610852 2.21811648]

gradient= [-8.03451790e-05 -3.02331398e-05 1.10578319e-04] w = [-0.03422501 0.81610852 2.21811648] w\_new= [-0.03422581 0.81610822 2.21811759]

gradient= [-8.02331041e-05 -3.01943145e-05 1.10427419e-04] w = [-0.03422581 0.81610822 2.21811759] w\_new= [-0.03422661 0.81610792 2.21811869]

gradient= [-8.01211860e-05 -3.01555384e-05 1.10276724e-04] w = [-0.03422661 0.81610792 2.21811869] w\_new= [-0.03422741 0.81610762 2.2181198 ]

gradient= [-8.00094243e-05 -3.01168114e-05 1.10126236e-04] w = [-0.03422741 0.81610762 2.2181198 ] w\_new= [-0.03422821 0.81610732 2.2181209 ]

gradient= [-7.98978190e-05 -3.00781335e-05 1.09975953e-04] w = [-0.03422821 0.81610732 2.2181209 ] w\_new= [-0.03422901 0.81610702 2.218122 ]

gradient= [-7.97863697e-05 -3.00395047e-05 1.09825874e-04] w = [-0.03422901 0.81610702 2.218122 ] w\_new= [-0.03422981 0.81610672 2.21812309]

gradient= [-7.96750763e-05 -3.00009248e-05 1.09676001e-04] w = [-0.03422981 0.81610672 2.21812309] w\_new= [-0.03423061 0.81610642 2.21812419]

gradient= [-7.95639386e-05 -2.99623939e-05 1.09526332e-04] w = [-0.03423061 0.81610642 2.21812419] w\_new= [-0.0342314 0.81610612 2.21812529]

gradient= [-7.94529562e-05 -2.99239118e-05 1.09376868e-04] w = [-0.0342314 0.81610612 2.21812529] w\_new= [-0.0342322 0.81610582 2.21812638]

gradient= [-7.93421290e-05 -2.98854785e-05 1.09227608e-04] w = [-0.0342322 0.81610582 2.21812638] w\_new= [-0.03423299 0.81610552 2.21812747]

gradient= [-7.92314569e-05 -2.98470939e-05 1.09078551e-04] w = [-0.03423299 0.81610552 2.21812747] w\_new= [-0.03423378 0.81610522 2.21812856]

gradient= [-7.91209395e-05 -2.98087580e-05 1.08929697e-04] w = [-0.03423378 0.81610522 2.21812856] w\_new= [-0.03423457 0.81610492 2.21812965]

gradient= [-7.90105766e-05 -2.97704706e-05 1.08781047e-04] w = [-0.03423457 0.81610492 2.21812965] w\_new= [-0.03423536 0.81610462 2.21813074]

gradient= [-7.89003681e-05 -2.97322319e-05 1.08632600e-04] w = [-0.03423536 0.81610462 2.21813074] w\_new= [-0.03423615 0.81610433 2.21813183]

gradient= [-7.87903136e-05 -2.96940416e-05 1.08484355e-04] w = [-0.03423615 0.81610433 2.21813183] w\_new= [-0.03423694 0.81610403 2.21813291]

gradient= [-7.86804131e-05 -2.96558997e-05 1.08336313e-04] w = [-0.03423694 0.81610403 2.21813291] w\_new= [-0.03423773 0.81610373 2.218134 ]

gradient= [-7.85706663e-05 -2.96178063e-05 1.08188473e-04] w = [-0.03423773 0.81610373 2.218134 ] w\_new= [-0.03423851 0.81610344 2.21813508]

gradient= [-7.84610729e-05 -2.95797611e-05 1.08040834e-04] w = [-0.03423851 0.81610344 2.21813508] w\_new= [-0.0342393 0.81610314 2.21813616]

gradient= [-7.83516328e-05 -2.95417641e-05 1.07893397e-04] w = [-0.0342393 0.81610314 2.21813616] w\_new= [-0.03424008 0.81610285 2.21813724]

gradient= [-7.82423457e-05 -2.95038154e-05 1.07746161e-04] w = [-0.03424008 0.81610285 2.21813724] w\_new= [-0.03424086 0.81610255 2.21813831]

gradient= [-7.81332114e-05 -2.94659147e-05 1.07599126e-04] w = [-0.03424086 0.81610255 2.21813831] w\_new= [-0.03424165 0.81610226 2.21813939]

gradient= [-7.80242298e-05 -2.94280622e-05 1.07452292e-04] w = [-0.03424165 0.81610226 2.21813939] w\_new= [-0.03424243 0.81610196 2.21814046]

gradient= [-7.79154005e-05 -2.93902576e-05 1.07305658e-04] w = [-0.03424243 0.81610196 2.21814046] w\_new= [-0.03424321 0.81610167 2.21814154]

gradient= [-7.78067234e-05 -2.93525010e-05 1.07159224e-04] w = [-0.03424321 0.81610167 2.21814154] w\_new= [-0.03424398 0.81610137 2.21814261]

gradient= [-7.76981983e-05 -2.93147922e-05 1.07012991e-04] w = [-0.03424398 0.81610137 2.21814261] w\_new= [-0.03424476 0.81610108 2.21814368]

gradient= [-7.75898249e-05 -2.92771313e-05 1.06866956e-04] w = [-0.03424476 0.81610108 2.21814368] w\_new= [-0.03424554 0.81610079 2.21814475]

gradient= [-7.74816031e-05 -2.92395182e-05 1.06721121e-04] w = [-0.03424554 0.81610079 2.21814475] w\_new= [-0.03424631 0.8161005 2.21814581]

gradient= [-7.73735326e-05 -2.92019527e-05 1.06575485e-04] w = [-0.03424631 0.8161005 2.21814581] w\_new= [-0.03424709 0.8161002 2.21814688]

gradient= [-7.72656132e-05 -2.91644349e-05 1.06430048e-04] w = [-0.03424709 0.8161002 2.21814688] w\_new= [-0.03424786 0.81609991 2.21814794]

gradient= [-7.71578447e-05 -2.91269647e-05 1.06284809e-04] w = [-0.03424786 0.81609991 2.21814794] w\_new= [-0.03424863 0.81609962 2.21814901]

gradient= [-7.70502269e-05 -2.90895420e-05 1.06139769e-04] w = [-0.03424863 0.81609962 2.21814901] w\_new= [-0.0342494 0.81609933 2.21815007]

gradient= [-7.69427596e-05 -2.90521668e-05 1.05994926e-04] w = [-0.0342494 0.81609933 2.21815007] w\_new= [-0.03425017 0.81609904 2.21815113]

gradient= [-7.68354426e-05 -2.90148390e-05 1.05850282e-04] w = [-0.03425017 0.81609904 2.21815113] w\_new= [-0.03425094 0.81609875 2.21815219]

gradient= [-7.67282756e-05 -2.89775585e-05 1.05705834e-04] w = [-0.03425094 0.81609875 2.21815219] w\_new= [-0.0342517 0.81609846 2.21815324]

gradient= [-7.66212584e-05 -2.89403253e-05 1.05561584e-04] w = [-0.0342517 0.81609846 2.21815324] w\_new= [-0.03425247 0.81609817 2.2181543 ]

gradient= [-7.65143909e-05 -2.89031394e-05 1.05417530e-04] w = [-0.03425247 0.81609817 2.2181543 ] w\_new= [-0.03425324 0.81609788 2.21815535]

gradient= [-7.64076729e-05 -2.88660006e-05 1.05273673e-04] w = [-0.03425324 0.81609788 2.21815535] w\_new= [-0.034254 0.81609759 2.21815641]

gradient= [-7.63011040e-05 -2.88289090e-05 1.05130013e-04] w = [-0.034254 0.81609759 2.21815641] w\_new= [-0.03425476 0.8160973 2.21815746]

gradient= [-7.61946842e-05 -2.87918644e-05 1.04986549e-04] w = [-0.03425476 0.8160973 2.21815746] w\_new= [-0.03425553 0.81609702 2.21815851]

gradient= [-7.60884131e-05 -2.87548667e-05 1.04843280e-04] w = [-0.03425553 0.81609702 2.21815851] w\_new= [-0.03425629 0.81609673 2.21815956]

gradient= [-7.59822906e-05 -2.87179161e-05 1.04700207e-04] w = [-0.03425629 0.81609673 2.21815956] w\_new= [-0.03425705 0.81609644 2.2181606 ]

gradient= [-7.58763166e-05 -2.86810123e-05 1.04557329e-04] w = [-0.03425705 0.81609644 2.2181606 ] w\_new= [-0.0342578 0.81609616 2.21816165]

gradient= [-7.57704907e-05 -2.86441553e-05 1.04414646e-04] w = [-0.0342578 0.81609616 2.21816165] w\_new= [-0.03425856 0.81609587 2.21816269]

gradient= [-7.56648127e-05 -2.86073451e-05 1.04272158e-04] w = [-0.03425856 0.81609587 2.21816269] w\_new= [-0.03425932 0.81609558 2.21816374]

gradient= [-7.55592826e-05 -2.85705816e-05 1.04129864e-04] w = [-0.03425932 0.81609558 2.21816374] w\_new= [-0.03426007 0.8160953 2.21816478]

gradient= [-7.54539000e-05 -2.85338647e-05 1.03987765e-04] w = [-0.03426007 0.8160953 2.21816478] w\_new= [-0.03426083 0.81609501 2.21816582]

gradient= [-7.53486647e-05 -2.84971944e-05 1.03845859e-04] w = [-0.03426083 0.81609501 2.21816582] w\_new= [-0.03426158 0.81609473 2.21816686]

gradient= [-7.52435765e-05 -2.84605707e-05 1.03704147e-04] w = [-0.03426158 0.81609473 2.21816686] w\_new= [-0.03426234 0.81609444 2.21816789]

gradient= [-7.51386353e-05 -2.84239934e-05 1.03562629e-04] w = [-0.03426234 0.81609444 2.21816789] w\_new= [-0.03426309 0.81609416 2.21816893]

gradient= [-7.50338409e-05 -2.83874625e-05 1.03421303e-04] w = [-0.03426309 0.81609416 2.21816893] w\_new= [-0.03426384 0.81609387 2.21816996]

gradient= [-7.49291929e-05 -2.83509780e-05 1.03280171e-04] w = [-0.03426384 0.81609387 2.21816996] w\_new= [-0.03426459 0.81609359 2.218171 ]

gradient= [-7.48246913e-05 -2.83145398e-05 1.03139231e-04] w = [-0.03426459 0.81609359 2.218171 ] w\_new= [-0.03426533 0.81609331 2.21817203]

gradient= [-7.47203357e-05 -2.82781478e-05 1.02998484e-04] w = [-0.03426533 0.81609331 2.21817203] w\_new= [-0.03426608 0.81609302 2.21817306]

gradient= [-7.46161261e-05 -2.82418020e-05 1.02857928e-04] w = [-0.03426608 0.81609302 2.21817306] w\_new= [-0.03426683 0.81609274 2.21817409]

gradient= [-7.45120622e-05 -2.82055023e-05 1.02717565e-04] w = [-0.03426683 0.81609274 2.21817409] w\_new= [-0.03426757 0.81609246 2.21817511]

gradient= [-7.44081437e-05 -2.81692487e-05 1.02577392e-04] w = [-0.03426757 0.81609246 2.21817511] w\_new= [-0.03426832 0.81609218 2.21817614]

gradient= [-7.43043706e-05 -2.81330411e-05 1.02437412e-04] w = [-0.03426832 0.81609218 2.21817614] w\_new= [-0.03426906 0.8160919 2.21817716]

gradient= [-7.42007426e-05 -2.80968795e-05 1.02297622e-04] w = [-0.03426906 0.8160919 2.21817716] w\_new= [-0.0342698 0.81609162 2.21817819]

gradient= [-7.40972594e-05 -2.80607637e-05 1.02158023e-04] w = [-0.0342698 0.81609162 2.21817819] w\_new= [-0.03427054 0.81609134 2.21817921]

gradient= [-7.39939209e-05 -2.80246938e-05 1.02018615e-04] w = [-0.03427054 0.81609134 2.21817921] w\_new= [-0.03427128 0.81609106 2.21818023]

gradient= [-7.38907269e-05 -2.79886696e-05 1.01879397e-04] w = [-0.03427128 0.81609106 2.21818023] w\_new= [-0.03427202 0.81609078 2.21818125]

gradient= [-7.37876772e-05 -2.79526912e-05 1.01740368e-04] w = [-0.03427202 0.81609078 2.21818125] w\_new= [-0.03427276 0.8160905 2.21818226]

gradient= [-7.36847715e-05 -2.79167585e-05 1.01601530e-04] w = [-0.03427276 0.8160905 2.21818226] w\_new= [-0.0342735 0.81609022 2.21818328]

gradient= [-7.35820097e-05 -2.78808713e-05 1.01462881e-04] w = [-0.0342735 0.81609022 2.21818328] w\_new= [-0.03427423 0.81608994 2.21818429]

gradient= [-7.34793916e-05 -2.78450297e-05 1.01324421e-04] w = [-0.03427423 0.81608994 2.21818429] w\_new= [-0.03427497 0.81608966 2.21818531]

gradient= [-7.33769170e-05 -2.78092336e-05 1.01186151e-04] w = [-0.03427497 0.81608966 2.21818531] w\_new= [-0.0342757 0.81608938 2.21818632]

gradient= [-7.32745856e-05 -2.77734829e-05 1.01048069e-04] w = [-0.0342757 0.81608938 2.21818632] w\_new= [-0.03427643 0.8160891 2.21818733]

gradient= [-7.31723973e-05 -2.77377776e-05 1.00910175e-04] w = [-0.03427643 0.8160891 2.21818733] w\_new= [-0.03427717 0.81608883 2.21818834]

gradient= [-7.30703518e-05 -2.77021177e-05 1.00772470e-04] w = [-0.03427717 0.81608883 2.21818834] w\_new= [-0.0342779 0.81608855 2.21818935]

gradient= [-7.29684491e-05 -2.76665030e-05 1.00634952e-04] w = [-0.0342779 0.81608855 2.21818935] w\_new= [-0.03427863 0.81608827 2.21819035]

gradient= [-7.28666888e-05 -2.76309335e-05 1.00497622e-04] w = [-0.03427863 0.81608827 2.21819035] w\_new= [-0.03427935 0.816088 2.21819136]

gradient= [-7.27650707e-05 -2.75954091e-05 1.00360480e-04] w = [-0.03427935 0.816088 2.21819136] w\_new= [-0.03428008 0.81608772 2.21819236]

gradient= [-7.26635947e-05 -2.75599299e-05 1.00223525e-04] w = [-0.03428008 0.81608772 2.21819236] w\_new= [-0.03428081 0.81608744 2.21819336]

gradient= [-7.25622606e-05 -2.75244957e-05 1.00086756e-04] w = [-0.03428081 0.81608744 2.21819336] w\_new= [-0.03428153 0.81608717 2.21819436]

gradient= [-7.24610682e-05 -2.74891065e-05 9.99501746e-05] w = [-0.03428153 0.81608717 2.21819436] w\_new= [-0.03428226 0.81608689 2.21819536]

gradient= [-7.23600172e-05 -2.74537622e-05 9.98137794e-05] w = [-0.03428226 0.81608689 2.21819536] w\_new= [-0.03428298 0.81608662 2.21819636]

gradient= [-7.22591075e-05 -2.74184628e-05 9.96775703e-05] w = [-0.03428298 0.81608662 2.21819636] w\_new= [-0.03428371 0.81608635 2.21819736]

gradient= [-7.21583389e-05 -2.73832082e-05 9.95415470e-05] w = [-0.03428371 0.81608635 2.21819736] w\_new= [-0.03428443 0.81608607 2.21819835]

gradient= [-7.20577111e-05 -2.73479983e-05 9.94057094e-05] w = [-0.03428443 0.81608607 2.21819835] w\_new= [-0.03428515 0.8160858 2.21819935]

gradient= [-7.19572240e-05 -2.73128332e-05 9.92700572e-05] w = [-0.03428515 0.8160858 2.21819935] w\_new= [-0.03428587 0.81608553 2.21820034]

gradient= [-7.18568774e-05 -2.72777127e-05 9.91345901e-05] w = [-0.03428587 0.81608553 2.21820034] w\_new= [-0.03428659 0.81608525 2.21820133]

gradient= [-7.17566711e-05 -2.72426368e-05 9.89993079e-05] w = [-0.03428659 0.81608525 2.21820133] w\_new= [-0.0342873 0.81608498 2.21820232]

gradient= [-7.16566049e-05 -2.72076055e-05 9.88642103e-05] w = [-0.0342873 0.81608498 2.21820232] w\_new= [-0.03428802 0.81608471 2.21820331]

gradient= [-7.15566785e-05 -2.71726186e-05 9.87292971e-05] w = [-0.03428802 0.81608471 2.21820331] w\_new= [-0.03428874 0.81608444 2.2182043 ]

gradient= [-7.14568919e-05 -2.71376761e-05 9.85945680e-05] w = [-0.03428874 0.81608444 2.2182043 ] w\_new= [-0.03428945 0.81608417 2.21820528]

gradient= [-7.13572447e-05 -2.71027781e-05 9.84600228e-05] w = [-0.03428945 0.81608417 2.21820528] w\_new= [-0.03429016 0.81608389 2.21820627]

gradient= [-7.12577369e-05 -2.70679243e-05 9.83256612e-05] w = [-0.03429016 0.81608389 2.21820627] w\_new= [-0.03429088 0.81608362 2.21820725]

gradient= [-7.11583682e-05 -2.70331148e-05 9.81914830e-05] w = [-0.03429088 0.81608362 2.21820725] w\_new= [-0.03429159 0.81608335 2.21820823]

gradient= [-7.10591383e-05 -2.69983495e-05 9.80574878e-05] w = [-0.03429159 0.81608335 2.21820823] w\_new= [-0.0342923 0.81608308 2.21820922]

gradient= [-7.09600472e-05 -2.69636283e-05 9.79236756e-05] w = [-0.0342923 0.81608308 2.21820922] w\_new= [-0.03429301 0.81608281 2.21821019]

gradient= [-7.08610947e-05 -2.69289513e-05 9.77900459e-05] w = [-0.03429301 0.81608281 2.21821019] w\_new= [-0.03429372 0.81608254 2.21821117]

gradient= [-7.07622804e-05 -2.68943183e-05 9.76565987e-05] w = [-0.03429372 0.81608254 2.21821117] w\_new= [-0.03429442 0.81608228 2.21821215]

gradient= [-7.06636043e-05 -2.68597292e-05 9.75233335e-05] w = [-0.03429442 0.81608228 2.21821215] w\_new= [-0.03429513 0.81608201 2.21821312]

gradient= [-7.05650661e-05 -2.68251841e-05 9.73902502e-05] w = [-0.03429513 0.81608201 2.21821312] w\_new= [-0.03429584 0.81608174 2.2182141 ]

gradient= [-7.04666657e-05 -2.67906829e-05 9.72573486e-05] w = [-0.03429584 0.81608174 2.2182141 ] w\_new= [-0.03429654 0.81608147 2.21821507]

gradient= [-7.03684028e-05 -2.67562255e-05 9.71246283e-05] w = [-0.03429654 0.81608147 2.21821507] w\_new= [-0.03429724 0.8160812 2.21821604]

gradient= [-7.02702773e-05 -2.67218118e-05 9.69920891e-05] w = [-0.03429724 0.8160812 2.21821604] w\_new= [-0.03429795 0.81608094 2.21821701]

gradient= [-7.01722890e-05 -2.66874419e-05 9.68597308e-05] w = [-0.03429795 0.81608094 2.21821701] w\_new= [-0.03429865 0.81608067 2.21821798]

gradient= [-7.00744376e-05 -2.66531156e-05 9.67275532e-05] w = [-0.03429865 0.81608067 2.21821798] w\_new= [-0.03429935 0.8160804 2.21821895]

gradient= [-6.99767230e-05 -2.66188329e-05 9.65955559e-05] w = [-0.03429935 0.8160804 2.21821895] w\_new= [-0.03430005 0.81608014 2.21821991]

gradient= [-6.98791450e-05 -2.65845938e-05 9.64637388e-05] w = [-0.03430005 0.81608014 2.21821991] w\_new= [-0.03430075 0.81607987 2.21822088]

gradient= [-6.97817034e-05 -2.65503981e-05 9.63321016e-05] w = [-0.03430075 0.81607987 2.21822088] w\_new= [-0.03430145 0.8160796 2.21822184]

gradient= [-6.96843981e-05 -2.65162459e-05 9.62006440e-05] w = [-0.03430145 0.8160796 2.21822184] w\_new= [-0.03430214 0.81607934 2.2182228 ]

gradient= [-6.95872287e-05 -2.64821371e-05 9.60693658e-05] w = [-0.03430214 0.81607934 2.2182228 ] w\_new= [-0.03430284 0.81607907 2.21822376]

gradient= [-6.94901952e-05 -2.64480716e-05 9.59382668e-05] w = [-0.03430284 0.81607907 2.21822376] w\_new= [-0.03430353 0.81607881 2.21822472]

gradient= [-6.93932973e-05 -2.64140494e-05 9.58073467e-05] w = [-0.03430353 0.81607881 2.21822472] w\_new= [-0.03430423 0.81607855 2.21822568]

gradient= [-6.92965349e-05 -2.63800704e-05 9.56766052e-05] w = [-0.03430423 0.81607855 2.21822568] w\_new= [-0.03430492 0.81607828 2.21822664]

gradient= [-6.91999077e-05 -2.63461345e-05 9.55460422e-05] w = [-0.03430492 0.81607828 2.21822664] w\_new= [-0.03430561 0.81607802 2.21822759]

gradient= [-6.91034156e-05 -2.63122418e-05 9.54156573e-05] w = [-0.03430561 0.81607802 2.21822759] w\_new= [-0.0343063 0.81607776 2.21822855]

gradient= [-6.90070583e-05 -2.62783921e-05 9.52854504e-05] w = [-0.0343063 0.81607776 2.21822855] w\_new= [-0.03430699 0.81607749 2.2182295 ]

gradient= [-6.89108358e-05 -2.62445854e-05 9.51554212e-05] w = [-0.03430699 0.81607749 2.2182295 ] w\_new= [-0.03430768 0.81607723 2.21823045]

gradient= [-6.88147477e-05 -2.62108217e-05 9.50255695e-05] w = [-0.03430768 0.81607723 2.21823045] w\_new= [-0.03430837 0.81607697 2.2182314 ]

gradient= [-6.87187940e-05 -2.61771009e-05 9.48958949e-05] w = [-0.03430837 0.81607697 2.2182314 ] w\_new= [-0.03430906 0.81607671 2.21823235]

gradient= [-6.86229744e-05 -2.61434229e-05 9.47663974e-05] w = [-0.03430906 0.81607671 2.21823235] w\_new= [-0.03430974 0.81607645 2.2182333 ]

gradient= [-6.85272888e-05 -2.61097877e-05 9.46370765e-05] w = [-0.03430974 0.81607645 2.2182333 ] w\_new= [-0.03431043 0.81607618 2.21823425]

gradient= [-6.84317368e-05 -2.60761953e-05 9.45079321e-05] w = [-0.03431043 0.81607618 2.21823425] w\_new= [-0.03431111 0.81607592 2.21823519]

gradient= [-6.83363185e-05 -2.60426455e-05 9.43789640e-05] w = [-0.03431111 0.81607592 2.21823519] w\_new= [-0.0343118 0.81607566 2.21823613]

gradient= [-6.82410335e-05 -2.60091384e-05 9.42501719e-05] w = [-0.0343118 0.81607566 2.21823613] w\_new= [-0.03431248 0.8160754 2.21823708]

gradient= [-6.81458817e-05 -2.59756738e-05 9.41215555e-05] w = [-0.03431248 0.8160754 2.21823708] w\_new= [-0.03431316 0.81607514 2.21823802]

gradient= [-6.80508629e-05 -2.59422518e-05 9.39931147e-05] w = [-0.03431316 0.81607514 2.21823802] w\_new= [-0.03431384 0.81607488 2.21823896]

gradient= [-6.79559769e-05 -2.59088722e-05 9.38648491e-05] w = [-0.03431384 0.81607488 2.21823896] w\_new= [-0.03431452 0.81607462 2.2182399 ]

gradient= [-6.78612236e-05 -2.58755351e-05 9.37367586e-05] w = [-0.03431452 0.81607462 2.2182399 ] w\_new= [-0.0343152 0.81607437 2.21824083]

gradient= [-6.77666027e-05 -2.58422403e-05 9.36088429e-05] w = [-0.0343152 0.81607437 2.21824083] w\_new= [-0.03431588 0.81607411 2.21824177]

gradient= [-6.76721140e-05 -2.58089878e-05 9.34811018e-05] w = [-0.03431588 0.81607411 2.21824177] w\_new= [-0.03431655 0.81607385 2.21824271]

gradient= [-6.75777574e-05 -2.57757776e-05 9.33535350e-05] w = [-0.03431655 0.81607385 2.21824271] w\_new= [-0.03431723 0.81607359 2.21824364]

gradient= [-6.74835327e-05 -2.57426096e-05 9.32261423e-05] w = [-0.03431723 0.81607359 2.21824364] w\_new= [-0.0343179 0.81607333 2.21824457]

gradient= [-6.73894397e-05 -2.57094837e-05 9.30989234e-05] w = [-0.0343179 0.81607333 2.21824457] w\_new= [-0.03431858 0.81607308 2.2182455 ]

gradient= [-6.72954783e-05 -2.56763999e-05 9.29718782e-05] w = [-0.03431858 0.81607308 2.2182455 ] w\_new= [-0.03431925 0.81607282 2.21824643]

gradient= [-6.72016481e-05 -2.56433582e-05 9.28450063e-05] w = [-0.03431925 0.81607282 2.21824643] w\_new= [-0.03431992 0.81607256 2.21824736]

gradient= [-6.71079491e-05 -2.56103585e-05 9.27183076e-05] w = [-0.03431992 0.81607256 2.21824736] w\_new= [-0.03432059 0.81607231 2.21824829]

gradient= [-6.70143811e-05 -2.55774007e-05 9.25917818e-05] w = [-0.03432059 0.81607231 2.21824829] w\_new= [-0.03432127 0.81607205 2.21824921]

gradient= [-6.69209438e-05 -2.55444848e-05 9.24654286e-05] w = [-0.03432127 0.81607205 2.21824921] w\_new= [-0.03432193 0.8160718 2.21825014]

gradient= [-6.68276372e-05 -2.55116107e-05 9.23392479e-05] w = [-0.03432193 0.8160718 2.21825014] w\_new= [-0.0343226 0.81607154 2.21825106]

gradient= [-6.67344609e-05 -2.54787785e-05 9.22132394e-05] w = [-0.0343226 0.81607154 2.21825106] w\_new= [-0.03432327 0.81607129 2.21825198]

gradient= [-6.66414149e-05 -2.54459879e-05 9.20874028e-05] w = [-0.03432327 0.81607129 2.21825198] w\_new= [-0.03432394 0.81607103 2.2182529 ]

gradient= [-6.65484989e-05 -2.54132391e-05 9.19617380e-05] w = [-0.03432394 0.81607103 2.2182529 ] w\_new= [-0.0343246 0.81607078 2.21825382]

gradient= [-6.64557128e-05 -2.53805318e-05 9.18362447e-05] w = [-0.0343246 0.81607078 2.21825382] w\_new= [-0.03432527 0.81607052 2.21825474]

gradient= [-6.63630564e-05 -2.53478662e-05 9.17109226e-05] w = [-0.03432527 0.81607052 2.21825474] w\_new= [-0.03432593 0.81607027 2.21825566]

gradient= [-6.62705295e-05 -2.53152420e-05 9.15857715e-05] w = [-0.03432593 0.81607027 2.21825566] w\_new= [-0.03432659 0.81607002 2.21825658]

gradient= [-6.61781319e-05 -2.52826594e-05 9.14607913e-05] w = [-0.03432659 0.81607002 2.21825658] w\_new= [-0.03432725 0.81606976 2.21825749]

gradient= [-6.60858635e-05 -2.52501181e-05 9.13359816e-05] w = [-0.03432725 0.81606976 2.21825749] w\_new= [-0.03432792 0.81606951 2.2182584 ]

gradient= [-6.59937240e-05 -2.52176182e-05 9.12113422e-05] w = [-0.03432792 0.81606951 2.2182584 ] w\_new= [-0.03432858 0.81606926 2.21825932]

gradient= [-6.59017133e-05 -2.51851597e-05 9.10868729e-05] w = [-0.03432858 0.81606926 2.21825932] w\_new= [-0.03432923 0.81606901 2.21826023]

gradient= [-6.58098311e-05 -2.51527424e-05 9.09625735e-05] w = [-0.03432923 0.81606901 2.21826023] w\_new= [-0.03432989 0.81606876 2.21826114]

gradient= [-6.57180774e-05 -2.51203663e-05 9.08384437e-05] w = [-0.03432989 0.81606876 2.21826114] w\_new= [-0.03433055 0.81606851 2.21826204]

gradient= [-6.56264520e-05 -2.50880314e-05 9.07144833e-05] w = [-0.03433055 0.81606851 2.21826204] w\_new= [-0.03433121 0.81606825 2.21826295]

gradient= [-6.55349546e-05 -2.50557375e-05 9.05906921e-05] w = [-0.03433121 0.81606825 2.21826295] w\_new= [-0.03433186 0.816068 2.21826386]

gradient= [-6.54435850e-05 -2.50234848e-05 9.04670698e-05] w = [-0.03433186 0.816068 2.21826386] w\_new= [-0.03433252 0.81606775 2.21826476]

gradient= [-6.53523432e-05 -2.49912730e-05 9.03436162e-05] w = [-0.03433252 0.81606775 2.21826476] w\_new= [-0.03433317 0.8160675 2.21826567]

gradient= [-6.52612289e-05 -2.49591022e-05 9.02203311e-05] w = [-0.03433317 0.8160675 2.21826567] w\_new= [-0.03433382 0.81606725 2.21826657]

gradient= [-6.51702419e-05 -2.49269723e-05 9.00972143e-05] w = [-0.03433382 0.81606725 2.21826657] w\_new= [-0.03433447 0.81606701 2.21826747]

gradient= [-6.50793821e-05 -2.48948833e-05 8.99742654e-05] w = [-0.03433447 0.81606701 2.21826747] w\_new= [-0.03433512 0.81606676 2.21826837]

gradient= [-6.49886493e-05 -2.48628351e-05 8.98514844e-05] w = [-0.03433512 0.81606676 2.21826837] w\_new= [-0.03433577 0.81606651 2.21826927]

gradient= [-6.48980433e-05 -2.48308276e-05 8.97288709e-05] w = [-0.03433577 0.81606651 2.21826927] w\_new= [-0.03433642 0.81606626 2.21827016]

gradient= [-6.48075639e-05 -2.47988608e-05 8.96064247e-05] w = [-0.03433642 0.81606626 2.21827016] w\_new= [-0.03433707 0.81606601 2.21827106]

gradient= [-6.47172110e-05 -2.47669347e-05 8.94841456e-05] w = [-0.03433707 0.81606601 2.21827106] w\_new= [-0.03433772 0.81606576 2.21827195]

gradient= [-6.46269843e-05 -2.47350491e-05 8.93620334e-05] w = [-0.03433772 0.81606576 2.21827195] w\_new= [-0.03433836 0.81606552 2.21827285]

gradient= [-6.45368837e-05 -2.47032041e-05 8.92400879e-05] w = [-0.03433836 0.81606552 2.21827285] w\_new= [-0.03433901 0.81606527 2.21827374]

gradient= [-6.44469091e-05 -2.46713996e-05 8.91183087e-05] w = [-0.03433901 0.81606527 2.21827374] w\_new= [-0.03433965 0.81606502 2.21827463]

gradient= [-6.43570602e-05 -2.46396356e-05 8.89966958e-05] w = [-0.03433965 0.81606502 2.21827463] w\_new= [-0.0343403 0.81606478 2.21827552]

gradient= [-6.42673369e-05 -2.46079119e-05 8.88752488e-05] w = [-0.0343403 0.81606478 2.21827552] w\_new= [-0.03434094 0.81606453 2.21827641]

gradient= [-6.41777389e-05 -2.45762286e-05 8.87539675e-05] w = [-0.03434094 0.81606453 2.21827641] w\_new= [-0.03434158 0.81606428 2.2182773 ]

gradient= [-6.40882662e-05 -2.45445856e-05 8.86328518e-05] w = [-0.03434158 0.81606428 2.2182773 ] w\_new= [-0.03434222 0.81606404 2.21827818]

gradient= [-6.39989185e-05 -2.45129828e-05 8.85119013e-05] w = [-0.03434222 0.81606404 2.21827818] w\_new= [-0.03434286 0.81606379 2.21827907]

gradient= [-6.39096957e-05 -2.44814202e-05 8.83911159e-05] w = [-0.03434286 0.81606379 2.21827907] w\_new= [-0.0343435 0.81606355 2.21827995]

gradient= [-6.38205975e-05 -2.44498978e-05 8.82704953e-05] w = [-0.0343435 0.81606355 2.21827995] w\_new= [-0.03434414 0.8160633 2.21828084]

gradient= [-6.37316239e-05 -2.44184155e-05 8.81500394e-05] w = [-0.03434414 0.8160633 2.21828084] w\_new= [-0.03434478 0.81606306 2.21828172]

gradient= [-6.36427747e-05 -2.43869731e-05 8.80297478e-05] w = [-0.03434478 0.81606306 2.21828172] w\_new= [-0.03434541 0.81606282 2.2182826 ]

gradient= [-6.35540495e-05 -2.43555708e-05 8.79096204e-05] w = [-0.03434541 0.81606282 2.2182826 ] w\_new= [-0.03434605 0.81606257 2.21828348]

gradient= [-6.34654484e-05 -2.43242085e-05 8.77896569e-05] w = [-0.03434605 0.81606257 2.21828348] w\_new= [-0.03434668 0.81606233 2.21828436]

gradient= [-6.33769711e-05 -2.42928860e-05 8.76698571e-05] w = [-0.03434668 0.81606233 2.21828436] w\_new= [-0.03434732 0.81606209 2.21828523]

gradient= [-6.32886175e-05 -2.42616033e-05 8.75502208e-05] w = [-0.03434732 0.81606209 2.21828523] w\_new= [-0.03434795 0.81606184 2.21828611]

gradient= [-6.32003873e-05 -2.42303605e-05 8.74307478e-05] w = [-0.03434795 0.81606184 2.21828611] w\_new= [-0.03434858 0.8160616 2.21828698]

gradient= [-6.31122804e-05 -2.41991574e-05 8.73114378e-05] w = [-0.03434858 0.8160616 2.21828698] w\_new= [-0.03434921 0.81606136 2.21828785]

gradient= [-6.30242967e-05 -2.41679940e-05 8.71922906e-05] w = [-0.03434921 0.81606136 2.21828785] w\_new= [-0.03434984 0.81606112 2.21828873]

gradient= [-6.29364358e-05 -2.41368702e-05 8.70733061e-05] w = [-0.03434984 0.81606112 2.21828873] w\_new= [-0.03435047 0.81606088 2.2182896 ]

gradient= [-6.28486978e-05 -2.41057861e-05 8.69544839e-05] w = [-0.03435047 0.81606088 2.2182896 ] w\_new= [-0.0343511 0.81606064 2.21829047]

gradient= [-6.27610824e-05 -2.40747414e-05 8.68358238e-05] w = [-0.0343511 0.81606064 2.21829047] w\_new= [-0.03435173 0.81606039 2.21829134]

gradient= [-6.26735894e-05 -2.40437363e-05 8.67173257e-05] w = [-0.03435173 0.81606039 2.21829134] w\_new= [-0.03435236 0.81606015 2.2182922 ]

gradient= [-6.25862187e-05 -2.40127706e-05 8.65989893e-05] w = [-0.03435236 0.81606015 2.2182922 ] w\_new= [-0.03435298 0.81605991 2.21829307]

gradient= [-6.24989701e-05 -2.39818443e-05 8.64808144e-05] w = [-0.03435298 0.81605991 2.21829307] w\_new= [-0.03435361 0.81605967 2.21829393]

gradient= [-6.24118434e-05 -2.39509574e-05 8.63628008e-05] w = [-0.03435361 0.81605967 2.21829393] w\_new= [-0.03435423 0.81605943 2.2182948 ]

gradient= [-6.23248385e-05 -2.39201097e-05 8.62449482e-05] w = [-0.03435423 0.81605943 2.2182948 ] w\_new= [-0.03435486 0.8160592 2.21829566]

gradient= [-6.22379551e-05 -2.38893013e-05 8.61272564e-05] w = [-0.03435486 0.8160592 2.21829566] w\_new= [-0.03435548 0.81605896 2.21829652]

gradient= [-6.21511932e-05 -2.38585321e-05 8.60097253e-05] w = [-0.03435548 0.81605896 2.21829652] w\_new= [-0.0343561 0.81605872 2.21829738]

gradient= [-6.20645525e-05 -2.38278020e-05 8.58923545e-05] w = [-0.0343561 0.81605872 2.21829738] w\_new= [-0.03435672 0.81605848 2.21829824]

gradient= [-6.19780328e-05 -2.37971111e-05 8.57751439e-05] w = [-0.03435672 0.81605848 2.21829824] w\_new= [-0.03435734 0.81605824 2.2182991 ]

gradient= [-6.18916341e-05 -2.37664592e-05 8.56580933e-05] w = [-0.03435734 0.81605824 2.2182991 ] w\_new= [-0.03435796 0.816058 2.21829995]

gradient= [-6.18053561e-05 -2.37358463e-05 8.55412023e-05] w = [-0.03435796 0.816058 2.21829995] w\_new= [-0.03435858 0.81605777 2.21830081]

gradient= [-6.17191986e-05 -2.37052723e-05 8.54244710e-05] w = [-0.03435858 0.81605777 2.21830081] w\_new= [-0.03435919 0.81605753 2.21830166]

gradient= [-6.16331616e-05 -2.36747373e-05 8.53078989e-05] w = [-0.03435919 0.81605753 2.21830166] w\_new= [-0.03435981 0.81605729 2.21830252]

gradient= [-6.15472448e-05 -2.36442411e-05 8.51914858e-05] w = [-0.03435981 0.81605729 2.21830252] w\_new= [-0.03436043 0.81605706 2.21830337]

gradient= [-6.14614480e-05 -2.36137837e-05 8.50752317e-05] w = [-0.03436043 0.81605706 2.21830337] w\_new= [-0.03436104 0.81605682 2.21830422]

gradient= [-6.13757711e-05 -2.35833651e-05 8.49591362e-05] w = [-0.03436104 0.81605682 2.21830422] w\_new= [-0.03436165 0.81605658 2.21830507]

gradient= [-6.12902140e-05 -2.35529851e-05 8.48431991e-05] w = [-0.03436165 0.81605658 2.21830507] w\_new= [-0.03436227 0.81605635 2.21830592]

gradient= [-6.12047764e-05 -2.35226439e-05 8.47274203e-05] w = [-0.03436227 0.81605635 2.21830592] w\_new= [-0.03436288 0.81605611 2.21830676]

gradient= [-6.11194582e-05 -2.34923412e-05 8.46117994e-05] w = [-0.03436288 0.81605611 2.21830676] w\_new= [-0.03436349 0.81605588 2.21830761]

gradient= [-6.10342592e-05 -2.34620772e-05 8.44963363e-05] w = [-0.03436349 0.81605588 2.21830761] w\_new= [-0.0343641 0.81605564 2.21830846]

gradient= [-6.09491792e-05 -2.34318516e-05 8.43810308e-05] w = [-0.0343641 0.81605564 2.21830846] w\_new= [-0.03436471 0.81605541 2.2183093 ]

gradient= [-6.08642182e-05 -2.34016645e-05 8.42658827e-05] w = [-0.03436471 0.81605541 2.2183093 ] w\_new= [-0.03436532 0.81605518 2.21831014]

gradient= [-6.07793758e-05 -2.33715158e-05 8.41508917e-05] w = [-0.03436532 0.81605518 2.21831014] w\_new= [-0.03436593 0.81605494 2.21831098]

gradient= [-6.06946520e-05 -2.33414055e-05 8.40360576e-05] w = [-0.03436593 0.81605494 2.21831098] w\_new= [-0.03436653 0.81605471 2.21831182]

gradient= [-6.06100466e-05 -2.33113336e-05 8.39213802e-05] w = [-0.03436653 0.81605471 2.21831182] w\_new= [-0.03436714 0.81605448 2.21831266]

gradient= [-6.05255594e-05 -2.32812999e-05 8.38068593e-05] w = [-0.03436714 0.81605448 2.21831266] w\_new= [-0.03436774 0.81605424 2.2183135 ]

gradient= [-6.04411903e-05 -2.32513044e-05 8.36924947e-05] w = [-0.03436774 0.81605424 2.2183135 ] w\_new= [-0.03436835 0.81605401 2.21831434]

gradient= [-6.03569390e-05 -2.32213471e-05 8.35782861e-05] w = [-0.03436835 0.81605401 2.21831434] w\_new= [-0.03436895 0.81605378 2.21831517]

gradient= [-6.02728055e-05 -2.31914279e-05 8.34642334e-05] w = [-0.03436895 0.81605378 2.21831517] w\_new= [-0.03436956 0.81605355 2.21831601]

gradient= [-6.01887895e-05 -2.31615468e-05 8.33503364e-05] w = [-0.03436956 0.81605355 2.21831601] w\_new= [-0.03437016 0.81605331 2.21831684]

gradient= [-6.01048910e-05 -2.31317038e-05 8.32365948e-05] w = [-0.03437016 0.81605331 2.21831684] w\_new= [-0.03437076 0.81605308 2.21831767]

gradient= [-6.00211096e-05 -2.31018987e-05 8.31230084e-05] w = [-0.03437076 0.81605308 2.21831767] w\_new= [-0.03437136 0.81605285 2.21831851]

gradient= [-5.99374453e-05 -2.30721316e-05 8.30095770e-05] w = [-0.03437136 0.81605285 2.21831851] w\_new= [-0.03437196 0.81605262 2.21831934]

gradient= [-5.98538980e-05 -2.30424024e-05 8.28963004e-05] w = [-0.03437196 0.81605262 2.21831934] w\_new= [-0.03437256 0.81605239 2.21832016]

gradient= [-5.97704673e-05 -2.30127110e-05 8.27831783e-05] w = [-0.03437256 0.81605239 2.21832016] w\_new= [-0.03437315 0.81605216 2.21832099]

gradient= [-5.96871532e-05 -2.29830574e-05 8.26702107e-05] w = [-0.03437315 0.81605216 2.21832099] w\_new= [-0.03437375 0.81605193 2.21832182]

gradient= [-5.96039556e-05 -2.29534416e-05 8.25573972e-05] w = [-0.03437375 0.81605193 2.21832182] w\_new= [-0.03437435 0.8160517 2.21832265]

gradient= [-5.95208742e-05 -2.29238635e-05 8.24447377e-05] w = [-0.03437435 0.8160517 2.21832265] w\_new= [-0.03437494 0.81605147 2.21832347]

gradient= [-5.94379088e-05 -2.28943230e-05 8.23322319e-05] w = [-0.03437494 0.81605147 2.21832347] w\_new= [-0.03437554 0.81605124 2.21832429]

gradient= [-5.93550594e-05 -2.28648202e-05 8.22198796e-05] w = [-0.03437554 0.81605124 2.21832429] w\_new= [-0.03437613 0.81605101 2.21832512]

gradient= [-5.92723258e-05 -2.28353549e-05 8.21076806e-05] w = [-0.03437613 0.81605101 2.21832512] w\_new= [-0.03437672 0.81605079 2.21832594]

gradient= [-5.91897077e-05 -2.28059271e-05 8.19956348e-05] w = [-0.03437672 0.81605079 2.21832594] w\_new= [-0.03437731 0.81605056 2.21832676]

gradient= [-5.91072051e-05 -2.27765368e-05 8.18837419e-05] w = [-0.03437731 0.81605056 2.21832676] w\_new= [-0.03437791 0.81605033 2.21832757]

gradient= [-5.90248177e-05 -2.27471839e-05 8.17720016e-05] w = [-0.03437791 0.81605033 2.21832757] w\_new= [-0.0343785 0.8160501 2.21832839]

gradient= [-5.89425455e-05 -2.27178684e-05 8.16604139e-05] w = [-0.0343785 0.8160501 2.21832839] w\_new= [-0.03437909 0.81604988 2.21832921]

gradient= [-5.88603882e-05 -2.26885902e-05 8.15489784e-05] w = [-0.03437909 0.81604988 2.21832921] w\_new= [-0.03437967 0.81604965 2.21833002]

gradient= [-5.87783457e-05 -2.26593493e-05 8.14376950e-05] w = [-0.03437967 0.81604965 2.21833002] w\_new= [-0.03438026 0.81604942 2.21833084]

gradient= [-5.86964178e-05 -2.26301456e-05 8.13265634e-05] w = [-0.03438026 0.81604942 2.21833084] w\_new= [-0.03438085 0.8160492 2.21833165]

gradient= [-5.86146044e-05 -2.26009791e-05 8.12155836e-05] w = [-0.03438085 0.8160492 2.21833165] w\_new= [-0.03438143 0.81604897 2.21833246]

gradient= [-5.85329053e-05 -2.25718498e-05 8.11047551e-05] w = [-0.03438143 0.81604897 2.21833246] w\_new= [-0.03438202 0.81604874 2.21833328]

gradient= [-5.84513204e-05 -2.25427575e-05 8.09940779e-05] w = [-0.03438202 0.81604874 2.21833328] w\_new= [-0.0343826 0.81604852 2.21833409]

gradient= [-5.83698494e-05 -2.25137023e-05 8.08835517e-05] w = [-0.0343826 0.81604852 2.21833409] w\_new= [-0.03438319 0.81604829 2.21833489]

gradient= [-5.82884923e-05 -2.24846841e-05 8.07731764e-05] w = [-0.03438319 0.81604829 2.21833489] w\_new= [-0.03438377 0.81604807 2.2183357 ]

gradient= [-5.82072488e-05 -2.24557028e-05 8.06629517e-05] w = [-0.03438377 0.81604807 2.2183357 ] w\_new= [-0.03438435 0.81604784 2.21833651]

gradient= [-5.81261189e-05 -2.24267585e-05 8.05528774e-05] w = [-0.03438435 0.81604784 2.21833651] w\_new= [-0.03438493 0.81604762 2.21833731]

gradient= [-5.80451023e-05 -2.23978510e-05 8.04429533e-05] w = [-0.03438493 0.81604762 2.21833731] w\_new= [-0.03438552 0.8160474 2.21833812]

gradient= [-5.79641988e-05 -2.23689804e-05 8.03331792e-05] w = [-0.03438552 0.8160474 2.21833812] w\_new= [-0.03438609 0.81604717 2.21833892]

gradient= [-5.78834084e-05 -2.23401465e-05 8.02235549e-05] w = [-0.03438609 0.81604717 2.21833892] w\_new= [-0.03438667 0.81604695 2.21833972]

gradient= [-5.78027309e-05 -2.23113493e-05 8.01140802e-05] w = [-0.03438667 0.81604695 2.21833972] w\_new= [-0.03438725 0.81604673 2.21834053]

gradient= [-5.77221661e-05 -2.22825888e-05 8.00047549e-05] w = [-0.03438725 0.81604673 2.21834053] w\_new= [-0.03438783 0.8160465 2.21834133]

gradient= [-5.76417139e-05 -2.22538649e-05 7.98955788e-05] w = [-0.03438783 0.8160465 2.21834133] w\_new= [-0.03438841 0.81604628 2.21834212]

gradient= [-5.75613741e-05 -2.22251776e-05 7.97865517e-05] w = [-0.03438841 0.81604628 2.21834212] w\_new= [-0.03438898 0.81604606 2.21834292]

gradient= [-5.74811465e-05 -2.21965269e-05 7.96776734e-05] w = [-0.03438898 0.81604606 2.21834292] w\_new= [-0.03438956 0.81604584 2.21834372]

gradient= [-5.74010309e-05 -2.21679126e-05 7.95689436e-05] w = [-0.03438956 0.81604584 2.21834372] w\_new= [-0.03439013 0.81604561 2.21834451]

gradient= [-5.73210274e-05 -2.21393348e-05 7.94603622e-05] w = [-0.03439013 0.81604561 2.21834451] w\_new= [-0.0343907 0.81604539 2.21834531]

gradient= [-5.72411355e-05 -2.21107934e-05 7.93519290e-05] w = [-0.0343907 0.81604539 2.21834531] w\_new= [-0.03439128 0.81604517 2.2183461 ]

gradient= [-5.71613553e-05 -2.20822884e-05 7.92436438e-05] w = [-0.03439128 0.81604517 2.2183461 ] w\_new= [-0.03439185 0.81604495 2.2183469 ]

gradient= [-5.70816866e-05 -2.20538197e-05 7.91355063e-05] w = [-0.03439185 0.81604495 2.2183469 ] w\_new= [-0.03439242 0.81604473 2.21834769]

gradient= [-5.70021292e-05 -2.20253872e-05 7.90275164e-05] w = [-0.03439242 0.81604473 2.21834769] w\_new= [-0.03439299 0.81604451 2.21834848]

gradient= [-5.69226829e-05 -2.19969910e-05 7.89196738e-05] w = [-0.03439299 0.81604451 2.21834848] w\_new= [-0.03439356 0.81604429 2.21834927]

gradient= [-5.68433476e-05 -2.19686309e-05 7.88119785e-05] w = [-0.03439356 0.81604429 2.21834927] w\_new= [-0.03439413 0.81604407 2.21835005]

gradient= [-5.67641231e-05 -2.19403069e-05 7.87044301e-05] w = [-0.03439413 0.81604407 2.21835005] w\_new= [-0.03439469 0.81604385 2.21835084]

gradient= [-5.66850093e-05 -2.19120191e-05 7.85970284e-05] w = [-0.03439469 0.81604385 2.21835084] w\_new= [-0.03439526 0.81604363 2.21835163]

gradient= [-5.66060061e-05 -2.18837673e-05 7.84897733e-05] w = [-0.03439526 0.81604363 2.21835163] w\_new= [-0.03439583 0.81604341 2.21835241]

gradient= [-5.65271132e-05 -2.18555514e-05 7.83826646e-05] w = [-0.03439583 0.81604341 2.21835241] w\_new= [-0.03439639 0.8160432 2.2183532 ]

gradient= [-5.64483305e-05 -2.18273716e-05 7.82757021e-05] w = [-0.03439639 0.8160432 2.2183532 ] w\_new= [-0.03439696 0.81604298 2.21835398]

gradient= [-5.63696579e-05 -2.17992276e-05 7.81688855e-05] w = [-0.03439696 0.81604298 2.21835398] w\_new= [-0.03439752 0.81604276 2.21835476]

gradient= [-5.62910952e-05 -2.17711195e-05 7.80622146e-05] w = [-0.03439752 0.81604276 2.21835476] w\_new= [-0.03439808 0.81604254 2.21835554]

gradient= [-5.62126422e-05 -2.17430471e-05 7.79556894e-05] w = [-0.03439808 0.81604254 2.21835554] w\_new= [-0.03439864 0.81604232 2.21835632]

gradient= [-5.61342989e-05 -2.17150106e-05 7.78493095e-05] w = [-0.03439864 0.81604232 2.21835632] w\_new= [-0.03439921 0.81604211 2.2183571 ]

gradient= [-5.60560650e-05 -2.16870098e-05 7.77430747e-05] w = [-0.03439921 0.81604211 2.2183571 ] w\_new= [-0.03439977 0.81604189 2.21835788]

gradient= [-5.59779403e-05 -2.16590446e-05 7.76369850e-05] w = [-0.03439977 0.81604189 2.21835788] w\_new= [-0.03440033 0.81604167 2.21835865]

gradient= [-5.58999249e-05 -2.16311151e-05 7.75310400e-05] w = [-0.03440033 0.81604167 2.21835865] w\_new= [-0.03440089 0.81604146 2.21835943]

gradient= [-5.58220184e-05 -2.16032212e-05 7.74252396e-05] w = [-0.03440089 0.81604146 2.21835943] w\_new= [-0.03440144 0.81604124 2.2183602 ]

gradient= [-5.57442207e-05 -2.15753628e-05 7.73195836e-05] w = [-0.03440144 0.81604124 2.2183602 ] w\_new= [-0.034402 0.81604103 2.21836098]

gradient= [-5.56665317e-05 -2.15475400e-05 7.72140717e-05] w = [-0.034402 0.81604103 2.21836098] w\_new= [-0.03440256 0.81604081 2.21836175]

gradient= [-5.55889513e-05 -2.15197526e-05 7.71087038e-05] w = [-0.03440256 0.81604081 2.21836175] w\_new= [-0.03440311 0.81604059 2.21836252]

gradient= [-5.55114792e-05 -2.14920005e-05 7.70034798e-05] w = [-0.03440311 0.81604059 2.21836252] w\_new= [-0.03440367 0.81604038 2.21836329]

gradient= [-5.54341154e-05 -2.14642839e-05 7.68983993e-05] w = [-0.03440367 0.81604038 2.21836329] w\_new= [-0.03440422 0.81604016 2.21836406]

gradient= [-5.53568596e-05 -2.14366026e-05 7.67934622e-05] w = [-0.03440422 0.81604016 2.21836406] w\_new= [-0.03440478 0.81603995 2.21836483]

gradient= [-5.52797117e-05 -2.14089565e-05 7.66886683e-05] w = [-0.03440478 0.81603995 2.21836483] w\_new= [-0.03440533 0.81603974 2.21836559]

gradient= [-5.52026717e-05 -2.13813457e-05 7.65840174e-05] w = [-0.03440533 0.81603974 2.21836559] w\_new= [-0.03440588 0.81603952 2.21836636]

gradient= [-5.51257392e-05 -2.13537701e-05 7.64795093e-05] w = [-0.03440588 0.81603952 2.21836636] w\_new= [-0.03440643 0.81603931 2.21836712]

gradient= [-5.50489142e-05 -2.13262296e-05 7.63751438e-05] w = [-0.03440643 0.81603931 2.21836712] w\_new= [-0.03440698 0.8160391 2.21836789]

gradient= [-5.49721965e-05 -2.12987242e-05 7.62709208e-05] w = [-0.03440698 0.8160391 2.21836789] w\_new= [-0.03440753 0.81603888 2.21836865]

gradient= [-5.48955860e-05 -2.12712539e-05 7.61668399e-05] w = [-0.03440753 0.81603888 2.21836865] w\_new= [-0.03440808 0.81603867 2.21836941]

gradient= [-5.48190825e-05 -2.12438186e-05 7.60629011e-05] w = [-0.03440808 0.81603867 2.21836941] w\_new= [-0.03440863 0.81603846 2.21837017]

gradient= [-5.47426859e-05 -2.12164182e-05 7.59591042e-05] w = [-0.03440863 0.81603846 2.21837017] w\_new= [-0.03440918 0.81603825 2.21837093]

gradient= [-5.46663960e-05 -2.11890528e-05 7.58554488e-05] w = [-0.03440918 0.81603825 2.21837093] w\_new= [-0.03440972 0.81603803 2.21837169]

gradient= [-5.45902127e-05 -2.11617223e-05 7.57519350e-05] w = [-0.03440972 0.81603803 2.21837169] w\_new= [-0.03441027 0.81603782 2.21837245]

gradient= [-5.45141358e-05 -2.11344266e-05 7.56485624e-05] w = [-0.03441027 0.81603782 2.21837245] w\_new= [-0.03441081 0.81603761 2.2183732 ]

gradient= [-5.44381651e-05 -2.11071657e-05 7.55453308e-05] w = [-0.03441081 0.81603761 2.2183732 ] w\_new= [-0.03441136 0.8160374 2.21837396]

gradient= [-5.43623006e-05 -2.10799395e-05 7.54422401e-05] w = [-0.03441136 0.8160374 2.21837396] w\_new= [-0.0344119 0.81603719 2.21837471]

gradient= [-5.42865421e-05 -2.10527481e-05 7.53392901e-05] w = [-0.0344119 0.81603719 2.21837471] w\_new= [-0.03441245 0.81603698 2.21837547]

gradient= [-5.42108893e-05 -2.10255913e-05 7.52364806e-05] w = [-0.03441245 0.81603698 2.21837547] w\_new= [-0.03441299 0.81603677 2.21837622]

gradient= [-5.41353423e-05 -2.09984691e-05 7.51338114e-05] w = [-0.03441299 0.81603677 2.21837622] w\_new= [-0.03441353 0.81603656 2.21837697]

gradient= [-5.40599008e-05 -2.09713815e-05 7.50312823e-05] w = [-0.03441353 0.81603656 2.21837697] w\_new= [-0.03441407 0.81603635 2.21837772]

gradient= [-5.39845646e-05 -2.09443284e-05 7.49288931e-05] w = [-0.03441407 0.81603635 2.21837772] w\_new= [-0.03441461 0.81603614 2.21837847]

gradient= [-5.39093337e-05 -2.09173098e-05 7.48266436e-05] w = [-0.03441461 0.81603614 2.21837847] w\_new= [-0.03441515 0.81603593 2.21837922]

gradient= [-5.38342079e-05 -2.08903257e-05 7.47245336e-05] w = [-0.03441515 0.81603593 2.21837922] w\_new= [-0.03441569 0.81603572 2.21837997]

gradient= [-5.3759187e-05 -2.0863376e-05 7.4622563e-05] w = [-0.03441569 0.81603572 2.21837997] w\_new= [-0.03441622 0.81603551 2.21838071]

gradient= [-5.36842709e-05 -2.08364606e-05 7.45207315e-05] w = [-0.03441622 0.81603551 2.21838071] w\_new= [-0.03441676 0.8160353 2.21838146]

gradient= [-5.36094595e-05 -2.08095795e-05 7.44190390e-05] w = [-0.03441676 0.8160353 2.21838146] w\_new= [-0.0344173 0.8160351 2.2183822]

gradient= [-5.35347526e-05 -2.07827328e-05 7.43174853e-05] w = [-0.0344173 0.8160351 2.2183822] w\_new= [-0.03441783 0.81603489 2.21838295]

gradient= [-5.34601500e-05 -2.07559202e-05 7.42160702e-05] w = [-0.03441783 0.81603489 2.21838295] w\_new= [-0.03441837 0.81603468 2.21838369]

gradient= [-5.33856516e-05 -2.07291418e-05 7.41147934e-05] w = [-0.03441837 0.81603468 2.21838369] w\_new= [-0.0344189 0.81603447 2.21838443]

gradient= [-5.33112572e-05 -2.07023976e-05 7.40136548e-05] w = [-0.0344189 0.81603447 2.21838443] w\_new= [-0.03441943 0.81603427 2.21838517]

gradient= [-5.32369668e-05 -2.06756875e-05 7.39126543e-05] w = [-0.03441943 0.81603427 2.21838517] w\_new= [-0.03441997 0.81603406 2.21838591]

gradient= [-5.31627802e-05 -2.06490114e-05 7.38117916e-05] w = [-0.03441997 0.81603406 2.21838591] w\_new= [-0.0344205 0.81603385 2.21838665]

gradient= [-5.30886972e-05 -2.06223693e-05 7.37110665e-05] w = [-0.0344205 0.81603385 2.21838665] w\_new= [-0.03442103 0.81603365 2.21838738]

gradient= [-5.30147176e-05 -2.05957613e-05 7.36104789e-05] w = [-0.03442103 0.81603365 2.21838738] w\_new= [-0.03442156 0.81603344 2.21838812]

gradient= [-5.29408414e-05 -2.05691871e-05 7.35100285e-05] w = [-0.03442156 0.81603344 2.21838812] w\_new= [-0.03442209 0.81603323 2.21838885]

gradient= [-5.28670684e-05 -2.05426468e-05 7.34097152e-05] w = [-0.03442209 0.81603323 2.21838885] w\_new= [-0.03442262 0.81603303 2.21838959]

gradient= [-5.27933984e-05 -2.05161404e-05 7.33095388e-05] w = [-0.03442262 0.81603303 2.21838959] w\_new= [-0.03442315 0.81603282 2.21839032]

gradient= [-5.27198313e-05 -2.04896678e-05 7.32094991e-05] w = [-0.03442315 0.81603282 2.21839032] w\_new= [-0.03442367 0.81603262 2.21839105]

gradient= [-5.26463670e-05 -2.04632289e-05 7.31095959e-05] w = [-0.03442367 0.81603262 2.21839105] w\_new= [-0.0344242 0.81603241 2.21839178]

gradient= [-5.25730053e-05 -2.04368238e-05 7.30098290e-05] w = [-0.0344242 0.81603241 2.21839178] w\_new= [-0.03442472 0.81603221 2.21839251]

gradient= [-5.24997460e-05 -2.04104523e-05 7.29101983e-05] w = [-0.03442472 0.81603221 2.21839251] w\_new= [-0.03442525 0.81603201 2.21839324]

gradient= [-5.24265891e-05 -2.03841145e-05 7.28107036e-05] w = [-0.03442525 0.81603201 2.21839324] w\_new= [-0.03442577 0.8160318 2.21839397]

gradient= [-5.23535344e-05 -2.03578102e-05 7.27113446e-05] w = [-0.03442577 0.8160318 2.21839397] w\_new= [-0.0344263 0.8160316 2.2183947]

gradient= [-5.22805817e-05 -2.03315395e-05 7.26121212e-05] w = [-0.0344263 0.8160316 2.2183947] w\_new= [-0.03442682 0.8160314 2.21839543]

gradient= [-5.22077309e-05 -2.03053023e-05 7.25130332e-05] w = [-0.03442682 0.8160314 2.21839543] w\_new= [-0.03442734 0.81603119 2.21839615]

gradient= [-5.21349818e-05 -2.02790986e-05 7.24140804e-05] w = [-0.03442734 0.81603119 2.21839615] w\_new= [-0.03442786 0.81603099 2.21839687]

gradient= [-5.20623343e-05 -2.02529283e-05 7.23152626e-05] w = [-0.03442786 0.81603099 2.21839687] w\_new= [-0.03442838 0.81603079 2.2183976 ]

gradient= [-5.19897884e-05 -2.02267913e-05 7.22165797e-05] w = [-0.03442838 0.81603079 2.2183976 ] w\_new= [-0.0344289 0.81603058 2.21839832]

gradient= [-5.19173437e-05 -2.02006877e-05 7.21180314e-05] w = [-0.0344289 0.81603058 2.21839832] w\_new= [-0.03442942 0.81603038 2.21839904]

gradient= [-5.18450002e-05 -2.01746174e-05 7.20196177e-05] w = [-0.03442942 0.81603038 2.21839904] w\_new= [-0.03442994 0.81603018 2.21839976]

gradient= [-5.17727578e-05 -2.01485804e-05 7.19213382e-05] w = [-0.03442994 0.81603018 2.21839976] w\_new= [-0.03443046 0.81602998 2.21840048]

gradient= [-5.17006163e-05 -2.01225765e-05 7.18231928e-05] w = [-0.03443046 0.81602998 2.21840048] w\_new= [-0.03443098 0.81602978 2.2184012 ]

gradient= [-5.16285755e-05 -2.00966059e-05 7.17251814e-05] w = [-0.03443098 0.81602978 2.2184012 ] w\_new= [-0.03443149 0.81602958 2.21840192]

gradient= [-5.15566353e-05 -2.00706683e-05 7.16273037e-05] w = [-0.03443149 0.81602958 2.21840192] w\_new= [-0.03443201 0.81602938 2.21840263]

gradient= [-5.14847957e-05 -2.00447639e-05 7.15295596e-05] w = [-0.03443201 0.81602938 2.21840263] w\_new= [-0.03443252 0.81602918 2.21840335]

gradient= [-5.14130563e-05 -2.00188925e-05 7.14319488e-05] w = [-0.03443252 0.81602918 2.21840335] w\_new= [-0.03443304 0.81602898 2.21840406]

gradient= [-5.13414172e-05 -1.99930541e-05 7.13344713e-05] w = [-0.03443304 0.81602898 2.21840406] w\_new= [-0.03443355 0.81602878 2.21840477]

gradient= [-5.12698781e-05 -1.99672486e-05 7.12371267e-05] w = [-0.03443355 0.81602878 2.21840477] w\_new= [-0.03443406 0.81602858 2.21840549]

gradient= [-5.11984389e-05 -1.99414761e-05 7.11399150e-05] w = [-0.03443406 0.81602858 2.21840549] w\_new= [-0.03443458 0.81602838 2.2184062 ]

gradient= [-5.11270995e-05 -1.99157365e-05 7.10428360e-05] w = [-0.03443458 0.81602838 2.2184062 ] w\_new= [-0.03443509 0.81602818 2.21840691]

gradient= [-5.10558597e-05 -1.98900297e-05 7.09458894e-05] w = [-0.03443509 0.81602818 2.21840691] w\_new= [-0.0344356 0.81602798 2.21840762]

gradient= [-5.09847195e-05 -1.98643557e-05 7.08490751e-05] w = [-0.0344356 0.81602798 2.21840762] w\_new= [-0.03443611 0.81602778 2.21840833]

gradient= [-5.09136785e-05 -1.98387144e-05 7.07523930e-05] w = [-0.03443611 0.81602778 2.21840833] w\_new= [-0.03443662 0.81602758 2.21840903]

gradient= [-5.08427368e-05 -1.98131059e-05 7.06558427e-05] w = [-0.03443662 0.81602758 2.21840903] w\_new= [-0.03443713 0.81602738 2.21840974]

gradient= [-5.07718942e-05 -1.97875300e-05 7.05594243e-05] w = [-0.03443713 0.81602738 2.21840974] w\_new= [-0.03443763 0.81602719 2.21841045]

gradient= [-5.07011505e-05 -1.97619868e-05 7.04631374e-05] w = [-0.03443763 0.81602719 2.21841045] w\_new= [-0.03443814 0.81602699 2.21841115]

gradient= [-5.06305057e-05 -1.97364762e-05 7.03669818e-05] w = [-0.03443814 0.81602699 2.21841115] w\_new= [-0.03443865 0.81602679 2.21841186]

gradient= [-5.05599595e-05 -1.97109981e-05 7.02709575e-05] w = [-0.03443865 0.81602679 2.21841186] w\_new= [-0.03443915 0.81602659 2.21841256]

gradient= [-5.04895118e-05 -1.96855525e-05 7.01750643e-05] w = [-0.03443915 0.81602659 2.21841256] w\_new= [-0.03443966 0.8160264 2.21841326]

gradient= [-5.04191625e-05 -1.96601394e-05 7.00793019e-05] w = [-0.03443966 0.8160264 2.21841326] w\_new= [-0.03444016 0.8160262 2.21841396]

gradient= [-5.03489114e-05 -1.96347587e-05 6.99836701e-05] w = [-0.03444016 0.8160262 2.21841396] w\_new= [-0.03444066 0.816026 2.21841466]

gradient= [-5.02787585e-05 -1.96094104e-05 6.98881689e-05] w = [-0.03444066 0.816026 2.21841466] w\_new= [-0.03444117 0.81602581 2.21841536]

gradient= [-5.02087035e-05 -1.95840945e-05 6.97927980e-05] w = [-0.03444117 0.81602581 2.21841536] w\_new= [-0.03444167 0.81602561 2.21841606]

gradient= [-5.01387464e-05 -1.95588108e-05 6.96975572e-05] w = [-0.03444167 0.81602561 2.21841606] w\_new= [-0.03444217 0.81602542 2.21841675]

gradient= [-5.00688869e-05 -1.95335594e-05 6.96024464e-05] w = [-0.03444217 0.81602542 2.21841675] w\_new= [-0.03444267 0.81602522 2.21841745]

gradient= [-4.99991250e-05 -1.95083403e-05 6.95074653e-05] w = [-0.03444267 0.81602522 2.21841745] w\_new= [-0.03444317 0.81602503 2.21841815]

gradient= [-4.99294606e-05 -1.94831533e-05 6.94126139e-05] w = [-0.03444317 0.81602503 2.21841815] w\_new= [-0.03444367 0.81602483 2.21841884]

gradient= [-4.98598934e-05 -1.94579985e-05 6.93178919e-05] w = [-0.03444367 0.81602483 2.21841884] w\_new= [-0.03444417 0.81602464 2.21841953]

gradient= [-4.97904234e-05 -1.94328758e-05 6.92232992e-05] w = [-0.03444417 0.81602464 2.21841953] w\_new= [-0.03444467 0.81602444 2.21842022]

gradient= [-4.97210505e-05 -1.94077851e-05 6.91288355e-05] w = [-0.03444467 0.81602444 2.21842022] w\_new= [-0.03444516 0.81602425 2.21842092]

gradient= [-4.96517744e-05 -1.93827265e-05 6.90345008e-05] w = [-0.03444516 0.81602425 2.21842092] w\_new= [-0.03444566 0.81602405 2.21842161]

gradient= [-4.95825950e-05 -1.93576998e-05 6.89402948e-05] w = [-0.03444566 0.81602405 2.21842161] w\_new= [-0.03444616 0.81602386 2.2184223 ]

gradient= [-4.95135122e-05 -1.93327051e-05 6.88462173e-05] w = [-0.03444616 0.81602386 2.2184223 ] w\_new= [-0.03444665 0.81602367 2.21842298]

gradient= [-4.94445260e-05 -1.93077423e-05 6.87522682e-05] w = [-0.03444665 0.81602367 2.21842298] w\_new= [-0.03444715 0.81602347 2.21842367]

gradient= [-4.93756360e-05 -1.92828113e-05 6.86584473e-05] w = [-0.03444715 0.81602347 2.21842367] w\_new= [-0.03444764 0.81602328 2.21842436]

gradient= [-4.93068423e-05 -1.92579122e-05 6.85647545e-05] w = [-0.03444764 0.81602328 2.21842436] w\_new= [-0.03444813 0.81602309 2.21842504]

gradient= [-4.92381447e-05 -1.92330448e-05 6.84711895e-05] w = [-0.03444813 0.81602309 2.21842504] w\_new= [-0.03444863 0.8160229 2.21842573]

gradient= [-4.91695429e-05 -1.92082092e-05 6.83777521e-05] w = [-0.03444863 0.8160229 2.21842573] w\_new= [-0.03444912 0.8160227 2.21842641]

gradient= [-4.91010370e-05 -1.91834053e-05 6.82844423e-05] w = [-0.03444912 0.8160227 2.21842641] w\_new= [-0.03444961 0.81602251 2.2184271 ]

gradient= [-4.90326268e-05 -1.91586330e-05 6.81912598e-05] w = [-0.03444961 0.81602251 2.2184271 ] w\_new= [-0.0344501 0.81602232 2.21842778]

gradient= [-4.89643120e-05 -1.91338924e-05 6.80982045e-05] w = [-0.0344501 0.81602232 2.21842778] w\_new= [-0.03445059 0.81602213 2.21842846]

gradient= [-4.88960927e-05 -1.91091834e-05 6.80052761e-05] w = [-0.03445059 0.81602213 2.21842846] w\_new= [-0.03445108 0.81602194 2.21842914]

gradient= [-4.88279687e-05 -1.90845059e-05 6.79124745e-05] w = [-0.03445108 0.81602194 2.21842914] w\_new= [-0.03445157 0.81602175 2.21842982]

gradient= [-4.87599398e-05 -1.90598599e-05 6.78197996e-05] w = [-0.03445157 0.81602175 2.21842982] w\_new= [-0.03445205 0.81602156 2.2184305 ]

gradient= [-4.86920058e-05 -1.90352453e-05 6.77272512e-05] w = [-0.03445205 0.81602156 2.2184305 ] w\_new= [-0.03445254 0.81602137 2.21843117]

gradient= [-4.86241668e-05 -1.90106622e-05 6.76348290e-05] w = [-0.03445254 0.81602137 2.21843117] w\_new= [-0.03445303 0.81602118 2.21843185]

gradient= [-4.85564225e-05 -1.89861105e-05 6.75425330e-05] w = [-0.03445303 0.81602118 2.21843185] w\_new= [-0.03445351 0.81602099 2.21843252]

gradient= [-4.84887727e-05 -1.89615901e-05 6.74503628e-05] w = [-0.03445351 0.81602099 2.21843252] w\_new= [-0.034454 0.8160208 2.2184332]

gradient= [-4.84212175e-05 -1.89371010e-05 6.73583185e-05] w = [-0.034454 0.8160208 2.2184332] w\_new= [-0.03445448 0.81602061 2.21843387]

gradient= [-4.83537566e-05 -1.89126432e-05 6.72663998e-05] w = [-0.03445448 0.81602061 2.21843387] w\_new= [-0.03445496 0.81602042 2.21843455]

gradient= [-4.82863899e-05 -1.88882166e-05 6.71746065e-05] w = [-0.03445496 0.81602042 2.21843455] w\_new= [-0.03445545 0.81602023 2.21843522]

gradient= [-4.82191172e-05 -1.88638212e-05 6.70829384e-05] w = [-0.03445545 0.81602023 2.21843522] w\_new= [-0.03445593 0.81602004 2.21843589]

gradient= [-4.81519385e-05 -1.88394570e-05 6.69913955e-05] w = [-0.03445593 0.81602004 2.21843589] w\_new= [-0.03445641 0.81601985 2.21843656]

gradient= [-4.80848536e-05 -1.88151238e-05 6.68999775e-05] w = [-0.03445641 0.81601985 2.21843656] w\_new= [-0.03445689 0.81601966 2.21843723]

gradient= [-4.80178624e-05 -1.87908217e-05 6.68086842e-05] w = [-0.03445689 0.81601966 2.21843723] w\_new= [-0.03445737 0.81601948 2.21843789]

gradient= [-4.79509648e-05 -1.87665507e-05 6.67175155e-05] w = [-0.03445737 0.81601948 2.21843789] w\_new= [-0.03445785 0.81601929 2.21843856]

gradient= [-4.78841605e-05 -1.87423106e-05 6.66264711e-05] w = [-0.03445785 0.81601929 2.21843856] w\_new= [-0.03445833 0.8160191 2.21843923]

gradient= [-4.78174496e-05 -1.87181015e-05 6.65355511e-05] w = [-0.03445833 0.8160191 2.21843923] w\_new= [-0.03445881 0.81601891 2.21843989]

gradient= [-4.77508318e-05 -1.86939233e-05 6.64447551e-05] w = [-0.03445881 0.81601891 2.21843989] w\_new= [-0.03445929 0.81601873 2.21844056]

gradient= [-4.7684307e-05 -1.8669776e-05 6.6354083e-05] w = [-0.03445929 0.81601873 2.21844056] w\_new= [-0.03445976 0.81601854 2.21844122]

gradient= [-4.76178751e-05 -1.86456595e-05 6.62635346e-05] w = [-0.03445976 0.81601854 2.21844122] w\_new= [-0.03446024 0.81601835 2.21844188]

gradient= [-4.75515359e-05 -1.86215738e-05 6.61731098e-05] w = [-0.03446024 0.81601835 2.21844188] w\_new= [-0.03446071 0.81601817 2.21844255]

gradient= [-4.74852894e-05 -1.85975189e-05 6.60828084e-05] w = [-0.03446071 0.81601817 2.21844255] w\_new= [-0.03446119 0.81601798 2.21844321]

gradient= [-4.74191355e-05 -1.85734947e-05 6.59926302e-05] w = [-0.03446119 0.81601798 2.21844321] w\_new= [-0.03446166 0.8160178 2.21844387]

gradient= [-4.73530738e-05 -1.85495012e-05 6.59025750e-05] w = [-0.03446166 0.8160178 2.21844387] w\_new= [-0.03446214 0.81601761 2.21844453]

gradient= [-4.72871045e-05 -1.85255383e-05 6.58126428e-05] w = [-0.03446214 0.81601761 2.21844453] w\_new= [-0.03446261 0.81601743 2.21844518]

gradient= [-4.72212272e-05 -1.85016060e-05 6.57228332e-05] w = [-0.03446261 0.81601743 2.21844518] w\_new= [-0.03446308 0.81601724 2.21844584]

gradient= [-4.71554419e-05 -1.84777043e-05 6.56331462e-05] w = [-0.03446308 0.81601724 2.21844584] w\_new= [-0.03446355 0.81601706 2.2184465 ]

gradient= [-4.70897485e-05 -1.84538331e-05 6.55435816e-05] w = [-0.03446355 0.81601706 2.2184465 ] w\_new= [-0.03446402 0.81601687 2.21844715]

gradient= [-4.70241469e-05 -1.84299924e-05 6.54541392e-05] w = [-0.03446402 0.81601687 2.21844715] w\_new= [-0.03446449 0.81601669 2.21844781]

gradient= [-4.69586368e-05 -1.84061821e-05 6.53648189e-05] w = [-0.03446449 0.81601669 2.21844781] w\_new= [-0.03446496 0.8160165 2.21844846]

gradient= [-4.68932182e-05 -1.83824023e-05 6.52756204e-05] w = [-0.03446496 0.8160165 2.21844846] w\_new= [-0.03446543 0.81601632 2.21844911]

gradient= [-4.68278909e-05 -1.83586528e-05 6.51865437e-05] w = [-0.03446543 0.81601632 2.21844911] w\_new= [-0.0344659 0.81601614 2.21844977]

gradient= [-4.67626549e-05 -1.83349337e-05 6.50975885e-05] w = [-0.0344659 0.81601614 2.21844977] w\_new= [-0.03446637 0.81601595 2.21845042]

gradient= [-4.66975099e-05 -1.83112448e-05 6.50087547e-05] w = [-0.03446637 0.81601595 2.21845042] w\_new= [-0.03446684 0.81601577 2.21845107]

gradient= [-4.66324559e-05 -1.82875863e-05 6.49200422e-05] w = [-0.03446684 0.81601577 2.21845107] w\_new= [-0.0344673 0.81601559 2.21845172]

gradient= [-4.65674927e-05 -1.82639579e-05 6.48314506e-05] w = [-0.0344673 0.81601559 2.21845172] w\_new= [-0.03446777 0.8160154 2.21845236]

gradient= [-4.65026203e-05 -1.82403597e-05 6.47429800e-05] w = [-0.03446777 0.8160154 2.21845236] w\_new= [-0.03446823 0.81601522 2.21845301]

gradient= [-4.64378384e-05 -1.82167917e-05 6.46546301e-05] w = [-0.03446823 0.81601522 2.21845301] w\_new= [-0.0344687 0.81601504 2.21845366]

gradient= [-4.63731470e-05 -1.81932537e-05 6.45664007e-05] w = [-0.0344687 0.81601504 2.21845366] w\_new= [-0.03446916 0.81601486 2.2184543 ]

gradient= [-4.63085459e-05 -1.81697459e-05 6.44782918e-05] w = [-0.03446916 0.81601486 2.2184543 ] w\_new= [-0.03446962 0.81601468 2.21845495]

gradient= [-4.62440350e-05 -1.81462681e-05 6.43903031e-05] w = [-0.03446962 0.81601468 2.21845495] w\_new= [-0.03447009 0.81601449 2.21845559]

gradient= [-4.61796142e-05 -1.81228202e-05 6.43024344e-05] w = [-0.03447009 0.81601449 2.21845559] w\_new= [-0.03447055 0.81601431 2.21845624]

gradient= [-4.61152833e-05 -1.80994023e-05 6.42146856e-05] w = [-0.03447055 0.81601431 2.21845624] w\_new= [-0.03447101 0.81601413 2.21845688]

gradient= [-4.60510423e-05 -1.80760144e-05 6.41270566e-05] w = [-0.03447101 0.81601413 2.21845688] w\_new= [-0.03447147 0.81601395 2.21845752]

gradient= [-4.59868909e-05 -1.80526563e-05 6.40395472e-05] w = [-0.03447147 0.81601395 2.21845752] w\_new= [-0.03447193 0.81601377 2.21845816]

gradient= [-4.59228291e-05 -1.80293280e-05 6.39521572e-05] w = [-0.03447193 0.81601377 2.21845816] w\_new= [-0.03447239 0.81601359 2.2184588 ]

gradient= [-4.58588568e-05 -1.80060296e-05 6.38648864e-05] w = [-0.03447239 0.81601359 2.2184588 ] w\_new= [-0.03447285 0.81601341 2.21845944]

gradient= [-4.57949738e-05 -1.79827609e-05 6.37777347e-05] w = [-0.03447285 0.81601341 2.21845944] w\_new= [-0.03447331 0.81601323 2.21846008]

gradient= [-4.57311799e-05 -1.79595220e-05 6.36907019e-05] w = [-0.03447331 0.81601323 2.21846008] w\_new= [-0.03447376 0.81601305 2.21846071]

gradient= [-4.56674752e-05 -1.79363127e-05 6.36037879e-05] w = [-0.03447376 0.81601305 2.21846071] w\_new= [-0.03447422 0.81601287 2.21846135]

gradient= [-4.56038594e-05 -1.79131331e-05 6.35169925e-05] w = [-0.03447422 0.81601287 2.21846135] w\_new= [-0.03447468 0.81601269 2.21846198]

gradient= [-4.55403324e-05 -1.78899831e-05 6.34303155e-05] w = [-0.03447468 0.81601269 2.21846198] w\_new= [-0.03447513 0.81601251 2.21846262]

gradient= [-4.54768941e-05 -1.78668627e-05 6.33437568e-05] w = [-0.03447513 0.81601251 2.21846262] w\_new= [-0.03447559 0.81601233 2.21846325]

gradient= [-4.54135444e-05 -1.78437719e-05 6.32573163e-05] w = [-0.03447559 0.81601233 2.21846325] w\_new= [-0.03447604 0.81601216 2.21846388]

gradient= [-4.53502831e-05 -1.78207105e-05 6.31709936e-05] w = [-0.03447604 0.81601216 2.21846388] w\_new= [-0.03447649 0.81601198 2.21846452]

gradient= [-4.52871102e-05 -1.77976786e-05 6.30847888e-05] w = [-0.03447649 0.81601198 2.21846452] w\_new= [-0.03447695 0.8160118 2.21846515]

gradient= [-4.52240254e-05 -1.77746762e-05 6.29987016e-05] w = [-0.03447695 0.8160118 2.21846515] w\_new= [-0.0344774 0.81601162 2.21846578]

gradient= [-4.51610288e-05 -1.77517031e-05 6.29127319e-05] w = [-0.0344774 0.81601162 2.21846578] w\_new= [-0.03447785 0.81601144 2.21846641]

gradient= [-4.50981200e-05 -1.77287594e-05 6.28268795e-05] w = [-0.03447785 0.81601144 2.21846641] w\_new= [-0.0344783 0.81601127 2.21846703]

gradient= [-4.50352992e-05 -1.77058450e-05 6.27411442e-05] w = [-0.0344783 0.81601127 2.21846703] w\_new= [-0.03447875 0.81601109 2.21846766]

gradient= [-4.49725660e-05 -1.76829599e-05 6.26555259e-05] w = [-0.03447875 0.81601109 2.21846766] w\_new= [-0.0344792 0.81601091 2.21846829]

gradient= [-4.49099204e-05 -1.76601041e-05 6.25700245e-05] w = [-0.0344792 0.81601091 2.21846829] w\_new= [-0.03447965 0.81601074 2.21846891]

gradient= [-4.48473623e-05 -1.76372774e-05 6.24846397e-05] w = [-0.03447965 0.81601074 2.21846891] w\_new= [-0.0344801 0.81601056 2.21846954]

gradient= [-4.47848915e-05 -1.76144800e-05 6.23993715e-05] w = [-0.0344801 0.81601056 2.21846954] w\_new= [-0.03448055 0.81601038 2.21847016]

gradient= [-4.47225079e-05 -1.75917116e-05 6.23142195e-05] w = [-0.03448055 0.81601038 2.21847016] w\_new= [-0.03448099 0.81601021 2.21847079]

gradient= [-4.46602114e-05 -1.75689724e-05 6.22291838e-05] w = [-0.03448099 0.81601021 2.21847079] w\_new= [-0.03448144 0.81601003 2.21847141]

gradient= [-4.45980019e-05 -1.75462622e-05 6.21442642e-05] w = [-0.03448144 0.81601003 2.21847141] w\_new= [-0.03448189 0.81600986 2.21847203]

gradient= [-4.45358793e-05 -1.75235811e-05 6.20594604e-05] w = [-0.03448189 0.81600986 2.21847203] w\_new= [-0.03448233 0.81600968 2.21847265]

gradient= [-4.44738434e-05 -1.75009289e-05 6.19747723e-05] w = [-0.03448233 0.81600968 2.21847265] w\_new= [-0.03448278 0.81600951 2.21847327]

gradient= [-4.44118941e-05 -1.74783057e-05 6.18901998e-05] w = [-0.03448278 0.81600951 2.21847327] w\_new= [-0.03448322 0.81600933 2.21847389]

gradient= [-4.43500313e-05 -1.74557114e-05 6.18057427e-05] w = [-0.03448322 0.81600933 2.21847389] w\_new= [-0.03448366 0.81600916 2.21847451]

gradient= [-4.42882548e-05 -1.74331460e-05 6.17214008e-05] w = [-0.03448366 0.81600916 2.21847451] w\_new= [-0.03448411 0.81600898 2.21847512]

gradient= [-4.42265646e-05 -1.74106094e-05 6.16371740e-05] w = [-0.03448411 0.81600898 2.21847512] w\_new= [-0.03448455 0.81600881 2.21847574]

gradient= [-4.41649605e-05 -1.73881017e-05 6.15530622e-05] w = [-0.03448455 0.81600881 2.21847574] w\_new= [-0.03448499 0.81600864 2.21847636]

gradient= [-4.41034424e-05 -1.73656227e-05 6.14690651e-05] w = [-0.03448499 0.81600864 2.21847636] w\_new= [-0.03448543 0.81600846 2.21847697]

gradient= [-4.40420103e-05 -1.73431724e-05 6.13851827e-05] w = [-0.03448543 0.81600846 2.21847697] w\_new= [-0.03448587 0.81600829 2.21847758]

gradient= [-4.39806638e-05 -1.73207509e-05 6.13014147e-05] w = [-0.03448587 0.81600829 2.21847758] w\_new= [-0.03448631 0.81600812 2.2184782 ]

gradient= [-4.3919403e-05 -1.7298358e-05 6.1217761e-05] w = [-0.03448631 0.81600812 2.2184782 ] w\_new= [-0.03448675 0.81600794 2.21847881]

gradient= [-4.38582278e-05 -1.72759937e-05 6.11342215e-05] w = [-0.03448675 0.81600794 2.21847881] w\_new= [-0.03448719 0.81600777 2.21847942]

gradient= [-4.37971379e-05 -1.72536580e-05 6.10507960e-05] w = [-0.03448719 0.81600777 2.21847942] w\_new= [-0.03448763 0.8160076 2.21848003]

gradient= [-4.37361334e-05 -1.72313509e-05 6.09674843e-05] w = [-0.03448763 0.8160076 2.21848003] w\_new= [-0.03448807 0.81600742 2.21848064]

gradient= [-4.36752140e-05 -1.72090723e-05 6.08842862e-05] w = [-0.03448807 0.81600742 2.21848064] w\_new= [-0.0344885 0.81600725 2.21848125]

gradient= [-4.36143796e-05 -1.71868222e-05 6.08012018e-05] w = [-0.0344885 0.81600725 2.21848125] w\_new= [-0.03448894 0.81600708 2.21848186]

gradient= [-4.35536302e-05 -1.71646005e-05 6.07182307e-05] w = [-0.03448894 0.81600708 2.21848186] w\_new= [-0.03448937 0.81600691 2.21848246]

gradient= [-4.34929656e-05 -1.71424072e-05 6.06353728e-05] w = [-0.03448937 0.81600691 2.21848246] w\_new= [-0.03448981 0.81600674 2.21848307]

gradient= [-4.34323856e-05 -1.71202423e-05 6.05526279e-05] w = [-0.03448981 0.81600674 2.21848307] w\_new= [-0.03449024 0.81600657 2.21848368]

gradient= [-4.33718903e-05 -1.70981058e-05 6.04699960e-05] w = [-0.03449024 0.81600657 2.21848368] w\_new= [-0.03449068 0.8160064 2.21848428]

gradient= [-4.33114794e-05 -1.70759975e-05 6.03874769e-05] w = [-0.03449068 0.8160064 2.21848428] w\_new= [-0.03449111 0.81600622 2.21848489]

gradient= [-4.32511528e-05 -1.70539175e-05 6.03050703e-05] w = [-0.03449111 0.81600622 2.21848489] w\_new= [-0.03449154 0.81600605 2.21848549]

gradient= [-4.31909104e-05 -1.70318658e-05 6.02227762e-05] w = [-0.03449154 0.81600605 2.21848549] w\_new= [-0.03449197 0.81600588 2.21848609]

gradient= [-4.31307522e-05 -1.70098422e-05 6.01405944e-05] w = [-0.03449197 0.81600588 2.21848609] w\_new= [-0.03449241 0.81600571 2.21848669]

gradient= [-4.30706779e-05 -1.69878468e-05 6.00585247e-05] w = [-0.03449241 0.81600571 2.21848669] w\_new= [-0.03449284 0.81600554 2.21848729]

gradient= [-4.30106875e-05 -1.69658795e-05 5.99765670e-05] w = [-0.03449284 0.81600554 2.21848729] w\_new= [-0.03449327 0.81600537 2.21848789]

gradient= [-4.29507808e-05 -1.69439403e-05 5.98947212e-05] w = [-0.03449327 0.81600537 2.21848789] w\_new= [-0.0344937 0.8160052 2.21848849]

gradient= [-4.28909578e-05 -1.69220292e-05 5.98129870e-05] w = [-0.0344937 0.8160052 2.21848849] w\_new= [-0.03449413 0.81600504 2.21848909]

gradient= [-4.28312182e-05 -1.69001461e-05 5.97313644e-05] w = [-0.03449413 0.81600504 2.21848909] w\_new= [-0.03449455 0.81600487 2.21848969]

gradient= [-4.27715621e-05 -1.68782910e-05 5.96498531e-05] w = [-0.03449455 0.81600487 2.21848969] w\_new= [-0.03449498 0.8160047 2.21849028]

gradient= [-4.27119893e-05 -1.68564638e-05 5.95684531e-05] w = [-0.03449498 0.8160047 2.21849028] w\_new= [-0.03449541 0.81600453 2.21849088]

gradient= [-4.26524996e-05 -1.68346645e-05 5.94871641e-05] w = [-0.03449541 0.81600453 2.21849088] w\_new= [-0.03449583 0.81600436 2.21849147]

gradient= [-4.25930929e-05 -1.68128931e-05 5.94059861e-05] w = [-0.03449583 0.81600436 2.21849147] w\_new= [-0.03449626 0.81600419 2.21849207]

gradient= [-4.25337692e-05 -1.67911496e-05 5.93249188e-05] w = [-0.03449626 0.81600419 2.21849207] w\_new= [-0.03449669 0.81600402 2.21849266]

gradient= [-4.24745283e-05 -1.67694339e-05 5.92439622e-05] w = [-0.03449669 0.81600402 2.21849266] w\_new= [-0.03449711 0.81600386 2.21849325]

gradient= [-4.24153701e-05 -1.67477459e-05 5.91631160e-05] w = [-0.03449711 0.81600386 2.21849325] w\_new= [-0.03449753 0.81600369 2.21849385]

gradient= [-4.23562945e-05 -1.67260857e-05 5.90823801e-05] w = [-0.03449753 0.81600369 2.21849385] w\_new= [-0.03449796 0.81600352 2.21849444]

gradient= [-4.22973013e-05 -1.67044531e-05 5.90017544e-05] w = [-0.03449796 0.81600352 2.21849444] w\_new= [-0.03449838 0.81600336 2.21849503]

gradient= [-4.22383905e-05 -1.66828483e-05 5.89212388e-05] w = [-0.03449838 0.81600336 2.21849503] w\_new= [-0.0344988 0.81600319 2.21849562]

gradient= [-4.21795619e-05 -1.66612710e-05 5.88408330e-05] w = [-0.0344988 0.81600319 2.21849562] w\_new= [-0.03449923 0.81600302 2.2184962 ]

gradient= [-4.21208155e-05 -1.66397214e-05 5.87605369e-05] w = [-0.03449923 0.81600302 2.2184962 ] w\_new= [-0.03449965 0.81600286 2.21849679]

gradient= [-4.20621510e-05 -1.66181994e-05 5.86803504e-05] w = [-0.03449965 0.81600286 2.21849679] w\_new= [-0.03450007 0.81600269 2.21849738]

gradient= [-4.20035685e-05 -1.65967048e-05 5.86002733e-05] w = [-0.03450007 0.81600269 2.21849738] w\_new= [-0.03450049 0.81600252 2.21849796]

gradient= [-4.19450677e-05 -1.65752378e-05 5.85203054e-05] w = [-0.03450049 0.81600252 2.21849796] w\_new= [-0.03450091 0.81600236 2.21849855]

gradient= [-4.18866485e-05 -1.65537982e-05 5.84404467e-05] w = [-0.03450091 0.81600236 2.21849855] w\_new= [-0.03450133 0.81600219 2.21849913]

gradient= [-4.1828311e-05 -1.6532386e-05 5.8360697e-05] w = [-0.03450133 0.81600219 2.21849913] w\_new= [-0.03450174 0.81600203 2.21849972]

gradient= [-4.17700548e-05 -1.65110013e-05 5.82810561e-05] w = [-0.03450174 0.81600203 2.21849972] w\_new= [-0.03450216 0.81600186 2.2185003 ]

gradient= [-4.17118800e-05 -1.64896438e-05 5.82015238e-05] w = [-0.03450216 0.81600186 2.2185003 ] w\_new= [-0.03450258 0.8160017 2.21850088]

gradient= [-4.16537864e-05 -1.64683137e-05 5.81221001e-05] w = [-0.03450258 0.8160017 2.21850088] w\_new= [-0.034503 0.81600153 2.21850146]

gradient= [-4.15957739e-05 -1.64470109e-05 5.80427848e-05] w = [-0.034503 0.81600153 2.21850146] w\_new= [-0.03450341 0.81600137 2.21850204]

gradient= [-4.15378423e-05 -1.64257354e-05 5.79635777e-05] w = [-0.03450341 0.81600137 2.21850204] w\_new= [-0.03450383 0.8160012 2.21850262]

gradient= [-4.14799916e-05 -1.64044870e-05 5.78844787e-05] w = [-0.03450383 0.8160012 2.21850262] w\_new= [-0.03450424 0.81600104 2.2185032 ]

gradient= [-4.14222217e-05 -1.63832659e-05 5.78054876e-05] w = [-0.03450424 0.81600104 2.2185032 ] w\_new= [-0.03450466 0.81600088 2.21850378]

gradient= [-4.13645324e-05 -1.63620719e-05 5.77266043e-05] w = [-0.03450466 0.81600088 2.21850378] w\_new= [-0.03450507 0.81600071 2.21850436]

gradient= [-4.13069236e-05 -1.63409050e-05 5.76478286e-05] w = [-0.03450507 0.81600071 2.21850436] w\_new= [-0.03450548 0.81600055 2.21850493]

gradient= [-4.12493953e-05 -1.63197652e-05 5.75691604e-05] w = [-0.03450548 0.81600055 2.21850493] w\_new= [-0.0345059 0.81600039 2.21850551]

gradient= [-4.11919472e-05 -1.62986524e-05 5.74905996e-05] w = [-0.0345059 0.81600039 2.21850551] w\_new= [-0.03450631 0.81600022 2.21850608]

gradient= [-4.11345793e-05 -1.62775666e-05 5.74121460e-05] w = [-0.03450631 0.81600022 2.21850608] w\_new= [-0.03450672 0.81600006 2.21850666]

gradient= [-4.10772915e-05 -1.62565079e-05 5.73337994e-05] w = [-0.03450672 0.81600006 2.21850666] w\_new= [-0.03450713 0.8159999 2.21850723]

gradient= [-4.10200837e-05 -1.62354760e-05 5.72555597e-05] w = [-0.03450713 0.8159999 2.21850723] w\_new= [-0.03450754 0.81599973 2.2185078 ]

gradient= [-4.09629557e-05 -1.62144711e-05 5.71774268e-05] w = [-0.03450754 0.81599973 2.2185078 ] w\_new= [-0.03450795 0.81599957 2.21850838]

gradient= [-4.09059075e-05 -1.61934930e-05 5.70994005e-05] w = [-0.03450795 0.81599957 2.21850838] w\_new= [-0.03450836 0.81599941 2.21850895]

gradient= [-4.08489389e-05 -1.61725418e-05 5.70214807e-05] w = [-0.03450836 0.81599941 2.21850895] w\_new= [-0.03450877 0.81599925 2.21850952]

gradient= [-4.07920498e-05 -1.61516174e-05 5.69436672e-05] w = [-0.03450877 0.81599925 2.21850952] w\_new= [-0.03450917 0.81599909 2.21851009]

gradient= [-4.07352401e-05 -1.61307198e-05 5.68659599e-05] w = [-0.03450917 0.81599909 2.21851009] w\_new= [-0.03450958 0.81599893 2.21851066]

gradient= [-4.06785097e-05 -1.61098489e-05 5.67883586e-05] w = [-0.03450958 0.81599893 2.21851066] w\_new= [-0.03450999 0.81599876 2.21851122]

gradient= [-4.06218585e-05 -1.60890048e-05 5.67108632e-05] w = [-0.03450999 0.81599876 2.21851122] w\_new= [-0.03451039 0.8159986 2.21851179]

gradient= [-4.05652864e-05 -1.60681873e-05 5.66334736e-05] w = [-0.03451039 0.8159986 2.21851179] w\_new= [-0.0345108 0.81599844 2.21851236]

gradient= [-4.05087932e-05 -1.60473964e-05 5.65561896e-05] w = [-0.0345108 0.81599844 2.21851236] w\_new= [-0.03451121 0.81599828 2.21851292]

gradient= [-4.04523789e-05 -1.60266321e-05 5.64790110e-05] w = [-0.03451121 0.81599828 2.21851292] w\_new= [-0.03451161 0.81599812 2.21851349]

gradient= [-4.03960433e-05 -1.60058944e-05 5.64019377e-05] w = [-0.03451161 0.81599812 2.21851349] w\_new= [-0.03451201 0.81599796 2.21851405]

gradient= [-4.03397863e-05 -1.59851833e-05 5.63249696e-05] w = [-0.03451201 0.81599796 2.21851405] w\_new= [-0.03451242 0.8159978 2.21851461]

gradient= [-4.02836079e-05 -1.59644987e-05 5.62481065e-05] w = [-0.03451242 0.8159978 2.21851461] w\_new= [-0.03451282 0.81599764 2.21851518]

gradient= [-4.02275079e-05 -1.59438405e-05 5.61713484e-05] w = [-0.03451282 0.81599764 2.21851518] w\_new= [-0.03451322 0.81599748 2.21851574]

gradient= [-4.01714861e-05 -1.59232088e-05 5.60946949e-05] w = [-0.03451322 0.81599748 2.21851574] w\_new= [-0.03451362 0.81599732 2.2185163 ]

gradient= [-4.01155426e-05 -1.59026034e-05 5.60181460e-05] w = [-0.03451362 0.81599732 2.2185163 ] w\_new= [-0.03451403 0.81599717 2.21851686]

gradient= [-4.00596772e-05 -1.58820245e-05 5.59417016e-05] w = [-0.03451403 0.81599717 2.21851686] w\_new= [-0.03451443 0.81599701 2.21851742]

gradient= [-4.00038897e-05 -1.58614719e-05 5.58653616e-05] w = [-0.03451443 0.81599701 2.21851742] w\_new= [-0.03451483 0.81599685 2.21851798]

gradient= [-3.99481801e-05 -1.58409455e-05 5.57891256e-05] w = [-0.03451483 0.81599685 2.21851798] w\_new= [-0.03451523 0.81599669 2.21851854]

gradient= [-3.98925483e-05 -1.58204455e-05 5.57129938e-05] w = [-0.03451523 0.81599669 2.21851854] w\_new= [-0.03451562 0.81599653 2.21851909]

gradient= [-3.98369940e-05 -1.57999717e-05 5.56369657e-05] w = [-0.03451562 0.81599653 2.21851909] w\_new= [-0.03451602 0.81599637 2.21851965]

gradient= [-3.97815174e-05 -1.57795241e-05 5.55610415e-05] w = [-0.03451602 0.81599637 2.21851965] w\_new= [-0.03451642 0.81599622 2.21852021]

gradient= [-3.97261181e-05 -1.57591027e-05 5.54852208e-05] w = [-0.03451642 0.81599622 2.21852021] w\_new= [-0.03451682 0.81599606 2.21852076]

gradient= [-3.96707962e-05 -1.57387074e-05 5.54095036e-05] w = [-0.03451682 0.81599606 2.21852076] w\_new= [-0.03451721 0.8159959 2.21852131]

gradient= [-3.96155515e-05 -1.57183382e-05 5.53338897e-05] w = [-0.03451721 0.8159959 2.21852131] w\_new= [-0.03451761 0.81599574 2.21852187]

gradient= [-3.95603839e-05 -1.56979951e-05 5.52583790e-05] w = [-0.03451761 0.81599574 2.21852187] w\_new= [-0.03451801 0.81599559 2.21852242]

gradient= [-3.95052933e-05 -1.56776781e-05 5.51829714e-05] w = [-0.03451801 0.81599559 2.21852242] w\_new= [-0.0345184 0.81599543 2.21852297]

gradient= [-3.94502796e-05 -1.56573870e-05 5.51076666e-05] w = [-0.0345184 0.81599543 2.21852297] w\_new= [-0.0345188 0.81599527 2.21852352]

gradient= [-3.93953427e-05 -1.56371219e-05 5.50324646e-05] w = [-0.0345188 0.81599527 2.21852352] w\_new= [-0.03451919 0.81599512 2.21852407]

gradient= [-3.93404824e-05 -1.56168828e-05 5.49573652e-05] w = [-0.03451919 0.81599512 2.21852407] w\_new= [-0.03451958 0.81599496 2.21852462]

gradient= [-3.92856987e-05 -1.55966696e-05 5.48823683e-05] w = [-0.03451958 0.81599496 2.21852462] w\_new= [-0.03451998 0.8159948 2.21852517]

gradient= [-3.92309915e-05 -1.55764822e-05 5.48074737e-05] w = [-0.03451998 0.8159948 2.21852517] w\_new= [-0.03452037 0.81599465 2.21852572]

gradient= [-3.91763606e-05 -1.55563207e-05 5.47326813e-05] w = [-0.03452037 0.81599465 2.21852572] w\_new= [-0.03452076 0.81599449 2.21852627]

gradient= [-3.9121806e-05 -1.5536185e-05 5.4657991e-05] w = [-0.03452076 0.81599449 2.21852627] w\_new= [-0.03452115 0.81599434 2.21852681]

gradient= [-3.90673275e-05 -1.55160751e-05 5.45834025e-05] w = [-0.03452115 0.81599434 2.21852681] w\_new= [-0.03452154 0.81599418 2.21852736]

gradient= [-3.90129250e-05 -1.54959909e-05 5.45089159e-05] w = [-0.03452154 0.81599418 2.21852736] w\_new= [-0.03452193 0.81599403 2.2185279 ]

gradient= [-3.89585985e-05 -1.54759325e-05 5.44345309e-05] w = [-0.03452193 0.81599403 2.2185279 ] w\_new= [-0.03452232 0.81599387 2.21852845]

gradient= [-3.89043477e-05 -1.54558997e-05 5.43602474e-05] w = [-0.03452232 0.81599387 2.21852845] w\_new= [-0.03452271 0.81599372 2.21852899]

gradient= [-3.88501727e-05 -1.54358926e-05 5.42860653e-05] w = [-0.03452271 0.81599372 2.21852899] w\_new= [-0.0345231 0.81599356 2.21852954]

gradient= [-3.87960733e-05 -1.54159110e-05 5.42119844e-05] w = [-0.0345231 0.81599356 2.21852954] w\_new= [-0.03452349 0.81599341 2.21853008]

gradient= [-3.87420494e-05 -1.53959551e-05 5.41380046e-05] w = [-0.03452349 0.81599341 2.21853008] w\_new= [-0.03452387 0.81599326 2.21853062]

gradient= [-3.86881009e-05 -1.53760247e-05 5.40641257e-05] w = [-0.03452387 0.81599326 2.21853062] w\_new= [-0.03452426 0.8159931 2.21853116]

gradient= [-3.86342277e-05 -1.53561199e-05 5.39903476e-05] w = [-0.03452426 0.8159931 2.21853116] w\_new= [-0.03452465 0.81599295 2.2185317 ]

gradient= [-3.85804297e-05 -1.53362405e-05 5.39166702e-05] w = [-0.03452465 0.81599295 2.2185317 ] w\_new= [-0.03452503 0.8159928 2.21853224]

gradient= [-3.85267068e-05 -1.53163866e-05 5.38430934e-05] w = [-0.03452503 0.8159928 2.21853224] w\_new= [-0.03452542 0.81599264 2.21853278]

gradient= [-3.84730588e-05 -1.52965581e-05 5.37696169e-05] w = [-0.03452542 0.81599264 2.21853278] w\_new= [-0.0345258 0.81599249 2.21853331]

gradient= [-3.84194857e-05 -1.52767550e-05 5.36962407e-05] w = [-0.0345258 0.81599249 2.21853331] w\_new= [-0.03452619 0.81599234 2.21853385]

gradient= [-3.83659874e-05 -1.52569773e-05 5.36229647e-05] w = [-0.03452619 0.81599234 2.21853385] w\_new= [-0.03452657 0.81599218 2.21853439]

gradient= [-3.83125637e-05 -1.52372249e-05 5.35497886e-05] w = [-0.03452657 0.81599218 2.21853439] w\_new= [-0.03452695 0.81599203 2.21853492]

gradient= [-3.82592146e-05 -1.52174978e-05 5.34767124e-05] w = [-0.03452695 0.81599203 2.21853492] w\_new= [-0.03452734 0.81599188 2.21853546]

gradient= [-3.82059399e-05 -1.51977959e-05 5.34037358e-05] w = [-0.03452734 0.81599188 2.21853546] w\_new= [-0.03452772 0.81599173 2.21853599]

gradient= [-3.81527396e-05 -1.51781193e-05 5.33308589e-05] w = [-0.03452772 0.81599173 2.21853599] w\_new= [-0.0345281 0.81599158 2.21853653]

gradient= [-3.80996136e-05 -1.51584679e-05 5.32580814e-05] w = [-0.0345281 0.81599158 2.21853653] w\_new= [-0.03452848 0.81599142 2.21853706]

gradient= [-3.80465616e-05 -1.51388416e-05 5.31854032e-05] w = [-0.03452848 0.81599142 2.21853706] w\_new= [-0.03452886 0.81599127 2.21853759]

gradient= [-3.79935837e-05 -1.51192405e-05 5.31128242e-05] w = [-0.03452886 0.81599127 2.21853759] w\_new= [-0.03452924 0.81599112 2.21853812]

gradient= [-3.79406798e-05 -1.50996645e-05 5.30403442e-05] w = [-0.03452924 0.81599112 2.21853812] w\_new= [-0.03452962 0.81599097 2.21853865]

gradient= [-3.78878496e-05 -1.50801135e-05 5.29679632e-05] w = [-0.03452962 0.81599097 2.21853865] w\_new= [-0.03453 0.81599082 2.21853918]

gradient= [-3.78350932e-05 -1.50605876e-05 5.28956809e-05] w = [-0.03453 0.81599082 2.21853918] w\_new= [-0.03453038 0.81599067 2.21853971]

gradient= [-3.77824105e-05 -1.50410867e-05 5.28234972e-05] w = [-0.03453038 0.81599067 2.21853971] w\_new= [-0.03453076 0.81599052 2.21854024]

gradient= [-3.77298012e-05 -1.50216108e-05 5.27514120e-05] w = [-0.03453076 0.81599052 2.21854024] w\_new= [-0.03453113 0.81599037 2.21854077]

gradient= [-3.76772654e-05 -1.50021598e-05 5.26794252e-05] w = [-0.03453113 0.81599037 2.21854077] w\_new= [-0.03453151 0.81599022 2.21854129]

gradient= [-3.76248028e-05 -1.49827338e-05 5.26075366e-05] w = [-0.03453151 0.81599022 2.21854129] w\_new= [-0.03453189 0.81599007 2.21854182]

gradient= [-3.75724135e-05 -1.49633326e-05 5.25357461e-05] w = [-0.03453189 0.81599007 2.21854182] w\_new= [-0.03453226 0.81598992 2.21854234]

gradient= [-3.75200973e-05 -1.49439563e-05 5.24640536e-05] w = [-0.03453226 0.81598992 2.21854234] w\_new= [-0.03453264 0.81598977 2.21854287]

gradient= [-3.74678541e-05 -1.49246048e-05 5.23924588e-05] w = [-0.03453264 0.81598977 2.21854287] w\_new= [-0.03453301 0.81598962 2.21854339]

gradient= [-3.74156838e-05 -1.49052780e-05 5.23209618e-05] w = [-0.03453301 0.81598962 2.21854339] w\_new= [-0.03453339 0.81598947 2.21854392]

gradient= [-3.73635863e-05 -1.48859761e-05 5.22495624e-05] w = [-0.03453339 0.81598947 2.21854392] w\_new= [-0.03453376 0.81598932 2.21854444]

gradient= [-3.73115615e-05 -1.48666988e-05 5.21782604e-05] w = [-0.03453376 0.81598932 2.21854444] w\_new= [-0.03453413 0.81598917 2.21854496]

gradient= [-3.72596093e-05 -1.48474463e-05 5.21070556e-05] w = [-0.03453413 0.81598917 2.21854496] w\_new= [-0.03453451 0.81598903 2.21854548]

gradient= [-3.72077296e-05 -1.48282184e-05 5.20359480e-05] w = [-0.03453451 0.81598903 2.21854548] w\_new= [-0.03453488 0.81598888 2.218546 ]

gradient= [-3.71559223e-05 -1.48090152e-05 5.19649375e-05] w = [-0.03453488 0.81598888 2.218546 ] w\_new= [-0.03453525 0.81598873 2.21854652]

gradient= [-3.71041873e-05 -1.47898365e-05 5.18940239e-05] w = [-0.03453525 0.81598873 2.21854652] w\_new= [-0.03453562 0.81598858 2.21854704]

gradient= [-3.70525245e-05 -1.47706825e-05 5.18232070e-05] w = [-0.03453562 0.81598858 2.21854704] w\_new= [-0.03453599 0.81598843 2.21854756]

gradient= [-3.70009338e-05 -1.47515529e-05 5.17524867e-05] w = [-0.03453599 0.81598843 2.21854756] w\_new= [-0.03453636 0.81598829 2.21854808]

gradient= [-3.69494151e-05 -1.47324479e-05 5.16818630e-05] w = [-0.03453636 0.81598829 2.21854808] w\_new= [-0.03453673 0.81598814 2.21854859]

gradient= [-3.68979682e-05 -1.47133674e-05 5.16113356e-05] w = [-0.03453673 0.81598814 2.21854859] w\_new= [-0.0345371 0.81598799 2.21854911]

gradient= [-3.68465932e-05 -1.46943113e-05 5.15409044e-05] w = [-0.0345371 0.81598799 2.21854911] w\_new= [-0.03453747 0.81598784 2.21854962]

gradient= [-3.67952898e-05 -1.46752796e-05 5.14705694e-05] w = [-0.03453747 0.81598784 2.21854962] w\_new= [-0.03453784 0.8159877 2.21855014]

gradient= [-3.67440581e-05 -1.46562723e-05 5.14003303e-05] w = [-0.03453784 0.8159877 2.21855014] w\_new= [-0.0345382 0.81598755 2.21855065]

gradient= [-3.66928978e-05 -1.46372893e-05 5.13301871e-05] w = [-0.0345382 0.81598755 2.21855065] w\_new= [-0.03453857 0.8159874 2.21855117]

gradient= [-3.66418089e-05 -1.46183307e-05 5.12601396e-05] w = [-0.03453857 0.8159874 2.21855117] w\_new= [-0.03453894 0.81598726 2.21855168]

gradient= [-3.65907913e-05 -1.45993964e-05 5.11901877e-05] w = [-0.03453894 0.81598726 2.21855168] w\_new= [-0.0345393 0.81598711 2.21855219]

gradient= [-3.65398449e-05 -1.45804863e-05 5.11203312e-05] w = [-0.0345393 0.81598711 2.21855219] w\_new= [-0.03453967 0.81598697 2.2185527 ]

gradient= [-3.64889696e-05 -1.45616004e-05 5.10505700e-05] w = [-0.03453967 0.81598697 2.2185527 ] w\_new= [-0.03454003 0.81598682 2.21855321]

gradient= [-3.64381653e-05 -1.45427388e-05 5.09809041e-05] w = [-0.03454003 0.81598682 2.21855321] w\_new= [-0.0345404 0.81598668 2.21855372]

gradient= [-3.63874319e-05 -1.45239013e-05 5.09113332e-05] w = [-0.0345404 0.81598668 2.21855372] w\_new= [-0.03454076 0.81598653 2.21855423]

gradient= [-3.63367692e-05 -1.45050880e-05 5.08418572e-05] w = [-0.03454076 0.81598653 2.21855423] w\_new= [-0.03454112 0.81598639 2.21855474]

gradient= [-3.62861773e-05 -1.44862988e-05 5.07724760e-05] w = [-0.03454112 0.81598639 2.21855474] w\_new= [-0.03454149 0.81598624 2.21855525]

gradient= [-3.62356559e-05 -1.44675336e-05 5.07031895e-05] w = [-0.03454149 0.81598624 2.21855525] w\_new= [-0.03454185 0.8159861 2.21855575]

gradient= [-3.61852051e-05 -1.44487925e-05 5.06339976e-05] w = [-0.03454185 0.8159861 2.21855575] w\_new= [-0.03454221 0.81598595 2.21855626]

gradient= [-3.61348246e-05 -1.44300754e-05 5.05649000e-05] w = [-0.03454221 0.81598595 2.21855626] w\_new= [-0.03454257 0.81598581 2.21855677]

gradient= [-3.60845145e-05 -1.44113823e-05 5.04958968e-05] w = [-0.03454257 0.81598581 2.21855677] w\_new= [-0.03454293 0.81598566 2.21855727]

gradient= [-3.60342745e-05 -1.43927132e-05 5.04269877e-05] w = [-0.03454293 0.81598566 2.21855727] w\_new= [-0.03454329 0.81598552 2.21855778]

gradient= [-3.59841047e-05 -1.43740680e-05 5.03581726e-05] w = [-0.03454329 0.81598552 2.21855778] w\_new= [-0.03454365 0.81598538 2.21855828]

gradient= [-3.59340048e-05 -1.43554466e-05 5.02894515e-05] w = [-0.03454365 0.81598538 2.21855828] w\_new= [-0.03454401 0.81598523 2.21855878]

gradient= [-3.58839749e-05 -1.43368492e-05 5.02208241e-05] w = [-0.03454401 0.81598523 2.21855878] w\_new= [-0.03454437 0.81598509 2.21855928]

gradient= [-3.58340147e-05 -1.43182756e-05 5.01522903e-05] w = [-0.03454437 0.81598509 2.21855928] w\_new= [-0.03454473 0.81598494 2.21855979]

gradient= [-3.57841243e-05 -1.42997258e-05 5.00838501e-05] w = [-0.03454473 0.81598494 2.21855979] w\_new= [-0.03454509 0.8159848 2.21856029]

gradient= [-3.57343035e-05 -1.42811997e-05 5.00155032e-05] w = [-0.03454509 0.8159848 2.21856029] w\_new= [-0.03454545 0.81598466 2.21856079]

gradient= [-3.56845522e-05 -1.42626974e-05 4.99472496e-05] w = [-0.03454545 0.81598466 2.21856079] w\_new= [-0.0345458 0.81598452 2.21856129]

gradient= [-3.56348703e-05 -1.42442188e-05 4.98790892e-05] w = [-0.0345458 0.81598452 2.21856129] w\_new= [-0.03454616 0.81598437 2.21856179]

gradient= [-3.55852578e-05 -1.42257640e-05 4.98110217e-05] w = [-0.03454616 0.81598437 2.21856179] w\_new= [-0.03454652 0.81598423 2.21856228]

gradient= [-3.55357145e-05 -1.42073327e-05 4.97430472e-05] w = [-0.03454652 0.81598423 2.21856228] w\_new= [-0.03454687 0.81598409 2.21856278]

gradient= [-3.54862403e-05 -1.41889251e-05 4.96751654e-05] w = [-0.03454687 0.81598409 2.21856278] w\_new= [-0.03454723 0.81598395 2.21856328]

gradient= [-3.54368351e-05 -1.41705411e-05 4.96073762e-05] w = [-0.03454723 0.81598395 2.21856328] w\_new= [-0.03454758 0.81598381 2.21856377]

gradient= [-3.53874989e-05 -1.41521806e-05 4.95396795e-05] w = [-0.03454758 0.81598381 2.21856377] w\_new= [-0.03454793 0.81598366 2.21856427]

gradient= [-3.53382315e-05 -1.41338437e-05 4.94720752e-05] w = [-0.03454793 0.81598366 2.21856427] w\_new= [-0.03454829 0.81598352 2.21856476]

gradient= [-3.52890328e-05 -1.41155303e-05 4.94045631e-05] w = [-0.03454829 0.81598352 2.21856476] w\_new= [-0.03454864 0.81598338 2.21856526]

gradient= [-3.52399028e-05 -1.40972404e-05 4.93371432e-05] w = [-0.03454864 0.81598338 2.21856526] w\_new= [-0.03454899 0.81598324 2.21856575]

gradient= [-3.51908413e-05 -1.40789739e-05 4.92698152e-05] w = [-0.03454899 0.81598324 2.21856575] w\_new= [-0.03454934 0.8159831 2.21856624]

gradient= [-3.51418483e-05 -1.40607308e-05 4.92025792e-05] w = [-0.03454934 0.8159831 2.21856624] w\_new= [-0.0345497 0.81598296 2.21856674]

gradient= [-3.50929237e-05 -1.40425111e-05 4.91354348e-05] w = [-0.0345497 0.81598296 2.21856674] w\_new= [-0.03455005 0.81598282 2.21856723]

gradient= [-3.50440673e-05 -1.40243148e-05 4.90683821e-05] w = [-0.03455005 0.81598282 2.21856723] w\_new= [-0.0345504 0.81598268 2.21856772]

gradient= [-3.49952791e-05 -1.40061418e-05 4.90014209e-05] w = [-0.0345504 0.81598268 2.21856772] w\_new= [-0.03455075 0.81598254 2.21856821]

gradient= [-3.49465590e-05 -1.39879921e-05 4.89345511e-05] w = [-0.03455075 0.81598254 2.21856821] w\_new= [-0.0345511 0.8159824 2.2185687]

gradient= [-3.48979068e-05 -1.39698657e-05 4.88677725e-05] w = [-0.0345511 0.8159824 2.2185687] w\_new= [-0.03455145 0.81598226 2.21856919]

gradient= [-3.48493225e-05 -1.39517625e-05 4.88010850e-05] w = [-0.03455145 0.81598226 2.21856919] w\_new= [-0.03455179 0.81598212 2.21856967]

gradient= [-3.48008060e-05 -1.39336825e-05 4.87344885e-05] w = [-0.03455179 0.81598212 2.21856967] w\_new= [-0.03455214 0.81598198 2.21857016]

gradient= [-3.47523572e-05 -1.39156257e-05 4.86679829e-05] w = [-0.03455214 0.81598198 2.21857016] w\_new= [-0.03455249 0.81598184 2.21857065]

gradient= [-3.47039760e-05 -1.38975921e-05 4.86015681e-05] w = [-0.03455249 0.81598184 2.21857065] w\_new= [-0.03455284 0.8159817 2.21857113]

gradient= [-3.46556623e-05 -1.38795816e-05 4.85352438e-05] w = [-0.03455284 0.8159817 2.21857113] w\_new= [-0.03455318 0.81598156 2.21857162]

gradient= [-3.46074160e-05 -1.38615941e-05 4.84690101e-05] w = [-0.03455318 0.81598156 2.21857162] w\_new= [-0.03455353 0.81598143 2.2185721 ]

gradient= [-3.45592370e-05 -1.38436298e-05 4.84028667e-05] w = [-0.03455353 0.81598143 2.2185721 ] w\_new= [-0.03455387 0.81598129 2.21857259]

gradient= [-3.45111252e-05 -1.38256884e-05 4.83368136e-05] w = [-0.03455387 0.81598129 2.21857259] w\_new= [-0.03455422 0.81598115 2.21857307]

gradient= [-3.44630806e-05 -1.38077701e-05 4.82708507e-05] w = [-0.03455422 0.81598115 2.21857307] w\_new= [-0.03455456 0.81598101 2.21857355]

gradient= [-3.44151030e-05 -1.37898748e-05 4.82049777e-05] w = [-0.03455456 0.81598101 2.21857355] w\_new= [-0.03455491 0.81598087 2.21857404]

gradient= [-3.43671923e-05 -1.37720023e-05 4.81391946e-05] w = [-0.03455491 0.81598087 2.21857404] w\_new= [-0.03455525 0.81598073 2.21857452]

gradient= [-3.43193485e-05 -1.37541529e-05 4.80735013e-05] w = [-0.03455525 0.81598073 2.21857452] w\_new= [-0.0345556 0.8159806 2.218575 ]

gradient= [-3.42715714e-05 -1.37363263e-05 4.80078977e-05] w = [-0.0345556 0.8159806 2.218575 ] w\_new= [-0.03455594 0.81598046 2.21857548]

gradient= [-3.42238610e-05 -1.37185225e-05 4.79423835e-05] w = [-0.03455594 0.81598046 2.21857548] w\_new= [-0.03455628 0.81598032 2.21857596]

gradient= [-3.41762171e-05 -1.37007416e-05 4.78769587e-05] w = [-0.03455628 0.81598032 2.21857596] w\_new= [-0.03455662 0.81598019 2.21857644]

gradient= [-3.41286397e-05 -1.36829835e-05 4.78116233e-05] w = [-0.03455662 0.81598019 2.21857644] w\_new= [-0.03455696 0.81598005 2.21857691]

gradient= [-3.40811287e-05 -1.36652482e-05 4.77463769e-05] w = [-0.03455696 0.81598005 2.21857691] w\_new= [-0.0345573 0.81597991 2.21857739]

gradient= [-3.40336840e-05 -1.36475356e-05 4.76812196e-05] w = [-0.0345573 0.81597991 2.21857739] w\_new= [-0.03455764 0.81597978 2.21857787]

gradient= [-3.39863055e-05 -1.36298458e-05 4.76161512e-05] w = [-0.03455764 0.81597978 2.21857787] w\_new= [-0.03455798 0.81597964 2.21857835]

gradient= [-3.39389930e-05 -1.36121786e-05 4.75511716e-05] w = [-0.03455798 0.81597964 2.21857835] w\_new= [-0.03455832 0.8159795 2.21857882]

gradient= [-3.38917466e-05 -1.35945341e-05 4.74862807e-05] w = [-0.03455832 0.8159795 2.21857882] w\_new= [-0.03455866 0.81597937 2.2185793 ]

gradient= [-3.38445661e-05 -1.35769122e-05 4.74214783e-05] w = [-0.03455866 0.81597937 2.2185793 ] w\_new= [-0.034559 0.81597923 2.21857977]

gradient= [-3.37974514e-05 -1.35593129e-05 4.73567643e-05] w = [-0.034559 0.81597923 2.21857977] w\_new= [-0.03455934 0.8159791 2.21858024]

gradient= [-3.37504025e-05 -1.35417362e-05 4.72921387e-05] w = [-0.03455934 0.8159791 2.21858024] w\_new= [-0.03455968 0.81597896 2.21858072]

gradient= [-3.37034192e-05 -1.35241820e-05 4.72276012e-05] w = [-0.03455968 0.81597896 2.21858072] w\_new= [-0.03456001 0.81597883 2.21858119]

gradient= [-3.36565014e-05 -1.35066504e-05 4.71631518e-05] w = [-0.03456001 0.81597883 2.21858119] w\_new= [-0.03456035 0.81597869 2.21858166]

gradient= [-3.36096491e-05 -1.34891412e-05 4.70987903e-05] w = [-0.03456035 0.81597869 2.21858166] w\_new= [-0.03456069 0.81597856 2.21858213]

gradient= [-3.35628621e-05 -1.34716545e-05 4.70345166e-05] w = [-0.03456069 0.81597856 2.21858213] w\_new= [-0.03456102 0.81597842 2.2185826 ]

gradient= [-3.35161405e-05 -1.34541902e-05 4.69703307e-05] w = [-0.03456102 0.81597842 2.2185826 ] w\_new= [-0.03456136 0.81597829 2.21858307]

gradient= [-3.34694840e-05 -1.34367483e-05 4.69062323e-05] w = [-0.03456136 0.81597829 2.21858307] w\_new= [-0.03456169 0.81597815 2.21858354]

gradient= [-3.34228926e-05 -1.34193288e-05 4.68422214e-05] w = [-0.03456169 0.81597815 2.21858354] w\_new= [-0.03456203 0.81597802 2.21858401]

gradient= [-3.33763662e-05 -1.34019317e-05 4.67782978e-05] w = [-0.03456203 0.81597802 2.21858401] w\_new= [-0.03456236 0.81597788 2.21858448]

gradient= [-3.33299047e-05 -1.33845568e-05 4.67144615e-05] w = [-0.03456236 0.81597788 2.21858448] w\_new= [-0.03456269 0.81597775 2.21858494]

gradient= [-3.32835080e-05 -1.33672043e-05 4.66507123e-05] w = [-0.03456269 0.81597775 2.21858494] w\_new= [-0.03456303 0.81597762 2.21858541]

gradient= [-3.3237176e-05 -1.3349874e-05 4.6587050e-05] w = [-0.03456303 0.81597762 2.21858541] w\_new= [-0.03456336 0.81597748 2.21858588]

gradient= [-3.31909087e-05 -1.33325659e-05 4.65234747e-05] w = [-0.03456336 0.81597748 2.21858588] w\_new= [-0.03456369 0.81597735 2.21858634]

gradient= [-3.31447060e-05 -1.33152801e-05 4.64599860e-05] w = [-0.03456369 0.81597735 2.21858634] w\_new= [-0.03456402 0.81597722 2.21858681]

gradient= [-3.30985676e-05 -1.32980164e-05 4.63965840e-05] w = [-0.03456402 0.81597722 2.21858681] w\_new= [-0.03456435 0.81597708 2.21858727]

gradient= [-3.30524937e-05 -1.32807749e-05 4.63332686e-05] w = [-0.03456435 0.81597708 2.21858727] w\_new= [-0.03456468 0.81597695 2.21858773]

gradient= [-3.30064840e-05 -1.32635555e-05 4.62700395e-05] w = [-0.03456468 0.81597695 2.21858773] w\_new= [-0.03456501 0.81597682 2.2185882 ]

gradient= [-3.29605385e-05 -1.32463581e-05 4.62068967e-05] w = [-0.03456501 0.81597682 2.2185882 ] w\_new= [-0.03456534 0.81597669 2.21858866]

gradient= [-3.29146571e-05 -1.32291829e-05 4.61438400e-05] w = [-0.03456534 0.81597669 2.21858866] w\_new= [-0.03456567 0.81597655 2.21858912]

gradient= [-3.28688398e-05 -1.32120297e-05 4.60808694e-05] w = [-0.03456567 0.81597655 2.21858912] w\_new= [-0.034566 0.81597642 2.21858958]

gradient= [-3.28230863e-05 -1.31948985e-05 4.60179848e-05] w = [-0.034566 0.81597642 2.21858958] w\_new= [-0.03456633 0.81597629 2.21859004]

gradient= [-3.27773966e-05 -1.31777892e-05 4.59551859e-05] w = [-0.03456633 0.81597629 2.21859004] w\_new= [-0.03456666 0.81597616 2.2185905 ]

gradient= [-3.27317707e-05 -1.31607020e-05 4.58924727e-05] w = [-0.03456666 0.81597616 2.2185905 ] w\_new= [-0.03456698 0.81597603 2.21859096]

gradient= [-3.26862085e-05 -1.31436366e-05 4.58298451e-05] w = [-0.03456698 0.81597603 2.21859096] w\_new= [-0.03456731 0.81597589 2.21859142]

gradient= [-3.26407098e-05 -1.31265932e-05 4.57673029e-05] w = [-0.03456731 0.81597589 2.21859142] w\_new= [-0.03456764 0.81597576 2.21859187]

gradient= [-3.25952746e-05 -1.31095716e-05 4.57048461e-05] w = [-0.03456764 0.81597576 2.21859187] w\_new= [-0.03456796 0.81597563 2.21859233]

gradient= [-3.25499027e-05 -1.30925718e-05 4.56424746e-05] w = [-0.03456796 0.81597563 2.21859233] w\_new= [-0.03456829 0.8159755 2.21859279]

gradient= [-3.25045942e-05 -1.30755939e-05 4.55801881e-05] w = [-0.03456829 0.8159755 2.21859279] w\_new= [-0.03456861 0.81597537 2.21859324]

gradient= [-3.24593488e-05 -1.30586378e-05 4.55179866e-05] w = [-0.03456861 0.81597537 2.21859324] w\_new= [-0.03456894 0.81597524 2.2185937 ]

gradient= [-3.24141666e-05 -1.30417034e-05 4.54558700e-05] w = [-0.03456894 0.81597524 2.2185937 ] w\_new= [-0.03456926 0.81597511 2.21859415]

gradient= [-3.23690474e-05 -1.30247907e-05 4.53938381e-05] w = [-0.03456926 0.81597511 2.21859415] w\_new= [-0.03456959 0.81597498 2.21859461]

gradient= [-3.23239911e-05 -1.30078998e-05 4.53318909e-05] w = [-0.03456959 0.81597498 2.21859461] w\_new= [-0.03456991 0.81597485 2.21859506]

gradient= [-3.22789977e-05 -1.29910305e-05 4.52700282e-05] w = [-0.03456991 0.81597485 2.21859506] w\_new= [-0.03457023 0.81597472 2.21859551]

gradient= [-3.22340671e-05 -1.29741829e-05 4.52082500e-05] w = [-0.03457023 0.81597472 2.21859551] w\_new= [-0.03457055 0.81597459 2.21859597]

gradient= [-3.21891991e-05 -1.29573569e-05 4.51465560e-05] w = [-0.03457055 0.81597459 2.21859597] w\_new= [-0.03457088 0.81597446 2.21859642]

gradient= [-3.21443938e-05 -1.29405525e-05 4.50849462e-05] w = [-0.03457088 0.81597446 2.21859642] w\_new= [-0.0345712 0.81597433 2.21859687]

gradient= [-3.20996509e-05 -1.29237696e-05 4.50234205e-05] w = [-0.0345712 0.81597433 2.21859687] w\_new= [-0.03457152 0.8159742 2.21859732]

gradient= [-3.20549704e-05 -1.29070083e-05 4.49619787e-05] w = [-0.03457152 0.8159742 2.21859732] w\_new= [-0.03457184 0.81597407 2.21859777]

gradient= [-3.20103523e-05 -1.28902685e-05 4.49006208e-05] w = [-0.03457184 0.81597407 2.21859777] w\_new= [-0.03457216 0.81597394 2.21859822]

gradient= [-3.19657964e-05 -1.28735502e-05 4.48393466e-05] w = [-0.03457216 0.81597394 2.21859822] w\_new= [-0.03457248 0.81597381 2.21859867]

gradient= [-3.19213026e-05 -1.28568534e-05 4.47781560e-05] w = [-0.03457248 0.81597381 2.21859867] w\_new= [-0.0345728 0.81597369 2.21859911]

gradient= [-3.18768710e-05 -1.28401779e-05 4.47170489e-05] w = [-0.0345728 0.81597369 2.21859911] w\_new= [-0.03457312 0.81597356 2.21859956]

gradient= [-3.18325013e-05 -1.28235239e-05 4.46560252e-05] w = [-0.03457312 0.81597356 2.21859956] w\_new= [-0.03457344 0.81597343 2.21860001]

gradient= [-3.17881935e-05 -1.28068913e-05 4.45950847e-05] w = [-0.03457344 0.81597343 2.21860001] w\_new= [-0.03457375 0.8159733 2.21860045]

gradient= [-3.17439475e-05 -1.27902800e-05 4.45342275e-05] w = [-0.03457375 0.8159733 2.21860045] w\_new= [-0.03457407 0.81597317 2.2186009 ]

gradient= [-3.16997632e-05 -1.27736900e-05 4.44734532e-05] w = [-0.03457407 0.81597317 2.2186009 ] w\_new= [-0.03457439 0.81597305 2.21860134]

gradient= [-3.16556405e-05 -1.27571214e-05 4.44127619e-05] w = [-0.03457439 0.81597305 2.21860134] w\_new= [-0.0345747 0.81597292 2.21860179]

gradient= [-3.16115794e-05 -1.27405740e-05 4.43521534e-05] w = [-0.0345747 0.81597292 2.21860179] w\_new= [-0.03457502 0.81597279 2.21860223]

gradient= [-3.15675798e-05 -1.27240478e-05 4.42916276e-05] w = [-0.03457502 0.81597279 2.21860223] w\_new= [-0.03457534 0.81597266 2.21860267]

gradient= [-3.15236415e-05 -1.27075428e-05 4.42311843e-05] w = [-0.03457534 0.81597266 2.21860267] w\_new= [-0.03457565 0.81597254 2.21860312]

gradient= [-3.14797645e-05 -1.26910591e-05 4.41708236e-05] w = [-0.03457565 0.81597254 2.21860312] w\_new= [-0.03457597 0.81597241 2.21860356]

gradient= [-3.14359488e-05 -1.26745965e-05 4.41105452e-05] w = [-0.03457597 0.81597241 2.21860356] w\_new= [-0.03457628 0.81597228 2.218604 ]

gradient= [-3.13921941e-05 -1.26581550e-05 4.40503491e-05] w = [-0.03457628 0.81597228 2.218604 ] w\_new= [-0.03457659 0.81597216 2.21860444]

gradient= [-3.13485005e-05 -1.26417346e-05 4.39902351e-05] w = [-0.03457659 0.81597216 2.21860444] w\_new= [-0.03457691 0.81597203 2.21860488]

gradient= [-3.13048678e-05 -1.26253354e-05 4.39302031e-05] w = [-0.03457691 0.81597203 2.21860488] w\_new= [-0.03457722 0.8159719 2.21860532]

gradient= [-3.12612960e-05 -1.26089571e-05 4.38702531e-05] w = [-0.03457722 0.8159719 2.21860532] w\_new= [-0.03457753 0.81597178 2.21860576]

gradient= [-3.12177849e-05 -1.25925999e-05 4.38103849e-05] w = [-0.03457753 0.81597178 2.21860576] w\_new= [-0.03457785 0.81597165 2.21860619]

gradient= [-3.11743346e-05 -1.25762637e-05 4.37505983e-05] w = [-0.03457785 0.81597165 2.21860619] w\_new= [-0.03457816 0.81597153 2.21860663]

gradient= [-3.11309448e-05 -1.25599485e-05 4.36908933e-05] w = [-0.03457816 0.81597153 2.21860663] w\_new= [-0.03457847 0.8159714 2.21860707]

gradient= [-3.10876156e-05 -1.25436542e-05 4.36312698e-05] w = [-0.03457847 0.8159714 2.21860707] w\_new= [-0.03457878 0.81597127 2.21860751]

gradient= [-3.10443468e-05 -1.25273808e-05 4.35717277e-05] w = [-0.03457878 0.81597127 2.21860751] w\_new= [-0.03457909 0.81597115 2.21860794]

gradient= [-3.10011384e-05 -1.25111284e-05 4.35122668e-05] w = [-0.03457909 0.81597115 2.21860794] w\_new= [-0.0345794 0.81597102 2.21860838]

gradient= [-3.09579902e-05 -1.24948968e-05 4.34528870e-05] w = [-0.0345794 0.81597102 2.21860838] w\_new= [-0.03457971 0.8159709 2.21860881]

gradient= [-3.09149023e-05 -1.24786860e-05 4.33935883e-05] w = [-0.03457971 0.8159709 2.21860881] w\_new= [-0.03458002 0.81597077 2.21860925]

gradient= [-3.08718744e-05 -1.24624961e-05 4.33343704e-05] w = [-0.03458002 0.81597077 2.21860925] w\_new= [-0.03458033 0.81597065 2.21860968]

gradient= [-3.08289065e-05 -1.24463269e-05 4.32752334e-05] w = [-0.03458033 0.81597065 2.21860968] w\_new= [-0.03458064 0.81597052 2.21861011]

gradient= [-3.07859986e-05 -1.24301785e-05 4.32161771e-05] w = [-0.03458064 0.81597052 2.21861011] w\_new= [-0.03458094 0.8159704 2.21861054]

gradient= [-3.07431505e-05 -1.24140509e-05 4.31572014e-05] w = [-0.03458094 0.8159704 2.21861054] w\_new= [-0.03458125 0.81597028 2.21861097]

gradient= [-3.07003622e-05 -1.23979439e-05 4.30983061e-05] w = [-0.03458125 0.81597028 2.21861097] w\_new= [-0.03458156 0.81597015 2.21861141]

gradient= [-3.06576335e-05 -1.23818576e-05 4.30394912e-05] w = [-0.03458156 0.81597015 2.21861141] w\_new= [-0.03458186 0.81597003 2.21861184]

gradient= [-3.06149645e-05 -1.23657920e-05 4.29807565e-05] w = [-0.03458186 0.81597003 2.21861184] w\_new= [-0.03458217 0.8159699 2.21861227]

gradient= [-3.05723550e-05 -1.23497471e-05 4.29221020e-05] w = [-0.03458217 0.8159699 2.21861227] w\_new= [-0.03458248 0.81596978 2.2186127 ]

gradient= [-3.05298049e-05 -1.23337227e-05 4.28635275e-05] w = [-0.03458248 0.81596978 2.2186127 ] w\_new= [-0.03458278 0.81596966 2.21861312]

gradient= [-3.04873141e-05 -1.23177189e-05 4.28050330e-05] w = [-0.03458278 0.81596966 2.21861312] w\_new= [-0.03458309 0.81596953 2.21861355]

gradient= [-3.04448826e-05 -1.23017356e-05 4.27466183e-05] w = [-0.03458309 0.81596953 2.21861355] w\_new= [-0.03458339 0.81596941 2.21861398]

gradient= [-3.04025103e-05 -1.22857729e-05 4.26882832e-05] w = [-0.03458339 0.81596941 2.21861398] w\_new= [-0.0345837 0.81596929 2.21861441]

gradient= [-3.03601971e-05 -1.22698307e-05 4.26300278e-05] w = [-0.0345837 0.81596929 2.21861441] w\_new= [-0.034584 0.81596917 2.21861483]

gradient= [-3.03179429e-05 -1.22539089e-05 4.25718519e-05] w = [-0.034584 0.81596917 2.21861483] w\_new= [-0.0345843 0.81596904 2.21861526]

gradient= [-3.02757477e-05 -1.22380077e-05 4.25137553e-05] w = [-0.0345843 0.81596904 2.21861526] w\_new= [-0.0345846 0.81596892 2.21861568]

gradient= [-3.02336113e-05 -1.22221268e-05 4.24557381e-05] w = [-0.0345846 0.81596892 2.21861568] w\_new= [-0.03458491 0.8159688 2.21861611]

gradient= [-3.01915337e-05 -1.22062663e-05 4.23978000e-05] w = [-0.03458491 0.8159688 2.21861611] w\_new= [-0.03458521 0.81596868 2.21861653]

gradient= [-3.01495147e-05 -1.21904262e-05 4.23399409e-05] w = [-0.03458521 0.81596868 2.21861653] w\_new= [-0.03458551 0.81596856 2.21861696]

gradient= [-3.01075544e-05 -1.21746064e-05 4.22821608e-05] w = [-0.03458551 0.81596856 2.21861696] w\_new= [-0.03458581 0.81596843 2.21861738]

gradient= [-3.00656526e-05 -1.21588070e-05 4.22244595e-05] w = [-0.03458581 0.81596843 2.21861738] w\_new= [-0.03458611 0.81596831 2.2186178 ]

gradient= [-3.00238092e-05 -1.21430278e-05 4.21668370e-05] w = [-0.03458611 0.81596831 2.2186178 ] w\_new= [-0.03458641 0.81596819 2.21861822]

gradient= [-2.99820242e-05 -1.21272689e-05 4.21092931e-05] w = [-0.03458641 0.81596819 2.21861822] w\_new= [-0.03458671 0.81596807 2.21861864]

gradient= [-2.99402974e-05 -1.21115303e-05 4.20518277e-05] w = [-0.03458671 0.81596807 2.21861864] w\_new= [-0.03458701 0.81596795 2.21861906]

gradient= [-2.98986289e-05 -1.20958119e-05 4.19944408e-05] w = [-0.03458701 0.81596795 2.21861906] w\_new= [-0.03458731 0.81596783 2.21861948]

gradient= [-2.98570185e-05 -1.20801136e-05 4.19371321e-05] w = [-0.03458731 0.81596783 2.21861948] w\_new= [-0.03458761 0.81596771 2.2186199 ]

gradient= [-2.98154661e-05 -1.20644356e-05 4.18799016e-05] w = [-0.03458761 0.81596771 2.2186199 ] w\_new= [-0.03458791 0.81596759 2.21862032]

gradient= [-2.97739716e-05 -1.20487776e-05 4.18227493e-05] w = [-0.03458791 0.81596759 2.21862032] w\_new= [-0.03458821 0.81596747 2.21862074]

gradient= [-2.97325351e-05 -1.20331398e-05 4.17656749e-05] w = [-0.03458821 0.81596747 2.21862074] w\_new= [-0.0345885 0.81596734 2.21862116]

gradient= [-2.96911563e-05 -1.20175221e-05 4.17086784e-05] w = [-0.0345885 0.81596734 2.21862116] w\_new= [-0.0345888 0.81596722 2.21862157]

gradient= [-2.96498352e-05 -1.20019244e-05 4.16517596e-05] w = [-0.0345888 0.81596722 2.21862157] w\_new= [-0.0345891 0.8159671 2.21862199]

gradient= [-2.96085718e-05 -1.19863468e-05 4.15949186e-05] w = [-0.0345891 0.8159671 2.21862199] w\_new= [-0.03458939 0.81596698 2.21862241]

gradient= [-2.95673659e-05 -1.19707892e-05 4.15381551e-05] w = [-0.03458939 0.81596698 2.21862241] w\_new= [-0.03458969 0.81596687 2.21862282]

gradient= [-2.95262175e-05 -1.19552516e-05 4.14814690e-05] w = [-0.03458969 0.81596687 2.21862282] w\_new= [-0.03458998 0.81596675 2.21862324]

gradient= [-2.94851264e-05 -1.19397339e-05 4.14248603e-05] w = [-0.03458998 0.81596675 2.21862324] w\_new= [-0.03459028 0.81596663 2.21862365]

gradient= [-2.94440927e-05 -1.19242362e-05 4.13683289e-05] w = [-0.03459028 0.81596663 2.21862365] w\_new= [-0.03459057 0.81596651 2.21862407]

gradient= [-2.94031162e-05 -1.19087583e-05 4.13118745e-05] w = [-0.03459057 0.81596651 2.21862407] w\_new= [-0.03459087 0.81596639 2.21862448]

gradient= [-2.93621969e-05 -1.18933004e-05 4.12554973e-05] w = [-0.03459087 0.81596639 2.21862448] w\_new= [-0.03459116 0.81596627 2.21862489]

gradient= [-2.93213346e-05 -1.18778623e-05 4.11991969e-05] w = [-0.03459116 0.81596627 2.21862489] w\_new= [-0.03459145 0.81596615 2.2186253 ]

gradient= [-2.92805293e-05 -1.18624441e-05 4.11429734e-05] w = [-0.03459145 0.81596615 2.2186253 ] w\_new= [-0.03459175 0.81596603 2.21862571]

gradient= [-2.92397809e-05 -1.18470456e-05 4.10868266e-05] w = [-0.03459175 0.81596603 2.21862571] w\_new= [-0.03459204 0.81596591 2.21862613]

gradient= [-2.91990894e-05 -1.18316670e-05 4.10307563e-05] w = [-0.03459204 0.81596591 2.21862613] w\_new= [-0.03459233 0.81596579 2.21862654]

gradient= [-2.91584545e-05 -1.18163081e-05 4.09747627e-05] w = [-0.03459233 0.81596579 2.21862654] w\_new= [-0.03459262 0.81596568 2.21862695]

gradient= [-2.91178764e-05 -1.18009689e-05 4.09188454e-05] w = [-0.03459262 0.81596568 2.21862695] w\_new= [-0.03459291 0.81596556 2.21862735]

gradient= [-2.90773549e-05 -1.17856495e-05 4.08630044e-05] w = [-0.03459291 0.81596556 2.21862735] w\_new= [-0.0345932 0.81596544 2.21862776]

gradient= [-2.90368898e-05 -1.17703497e-05 4.08072396e-05] w = [-0.0345932 0.81596544 2.21862776] w\_new= [-0.03459349 0.81596532 2.21862817]

gradient= [-2.89964812e-05 -1.17550696e-05 4.07515509e-05] w = [-0.03459349 0.81596532 2.21862817] w\_new= [-0.03459378 0.81596521 2.21862858]

gradient= [-2.89561290e-05 -1.17398092e-05 4.06959382e-05] w = [-0.03459378 0.81596521 2.21862858] w\_new= [-0.03459407 0.81596509 2.21862899]

gradient= [-2.89158330e-05 -1.17245683e-05 4.06404013e-05] w = [-0.03459407 0.81596509 2.21862899] w\_new= [-0.03459436 0.81596497 2.21862939]

gradient= [-2.88755932e-05 -1.17093471e-05 4.05849403e-05] w = [-0.03459436 0.81596497 2.21862939] w\_new= [-0.03459465 0.81596485 2.2186298 ]

gradient= [-2.88354096e-05 -1.16941453e-05 4.05295549e-05] w = [-0.03459465 0.81596485 2.2186298 ] w\_new= [-0.03459494 0.81596474 2.2186302 ]

gradient= [-2.87952820e-05 -1.16789632e-05 4.04742451e-05] w = [-0.03459494 0.81596474 2.2186302 ] w\_new= [-0.03459523 0.81596462 2.21863061]

gradient= [-2.87552103e-05 -1.16638005e-05 4.04190108e-05] w = [-0.03459523 0.81596462 2.21863061] w\_new= [-0.03459552 0.8159645 2.21863101]

gradient= [-2.87151945e-05 -1.16486573e-05 4.03638518e-05] w = [-0.03459552 0.8159645 2.21863101] w\_new= [-0.0345958 0.81596439 2.21863142]

gradient= [-2.86752345e-05 -1.16335336e-05 4.03087681e-05] w = [-0.0345958 0.81596439 2.21863142] w\_new= [-0.03459609 0.81596427 2.21863182]

gradient= [-2.86353303e-05 -1.16184293e-05 4.02537596e-05] w = [-0.03459609 0.81596427 2.21863182] w\_new= [-0.03459638 0.81596415 2.21863222]

gradient= [-2.85954817e-05 -1.16033444e-05 4.01988262e-05] w = [-0.03459638 0.81596415 2.21863222] w\_new= [-0.03459666 0.81596404 2.21863262]

gradient= [-2.85556887e-05 -1.15882790e-05 4.01439676e-05] w = [-0.03459666 0.81596404 2.21863262] w\_new= [-0.03459695 0.81596392 2.21863302]

gradient= [-2.85159511e-05 -1.15732328e-05 4.00891840e-05] w = [-0.03459695 0.81596392 2.21863302] w\_new= [-0.03459723 0.81596381 2.21863343]

gradient= [-2.84762690e-05 -1.15582061e-05 4.00344751e-05] w = [-0.03459723 0.81596381 2.21863343] w\_new= [-0.03459752 0.81596369 2.21863383]

gradient= [-2.84366423e-05 -1.15431986e-05 3.99798408e-05] w = [-0.03459752 0.81596369 2.21863383] w\_new= [-0.0345978 0.81596358 2.21863423]

gradient= [-2.83970707e-05 -1.15282104e-05 3.99252811e-05] w = [-0.0345978 0.81596358 2.21863423] w\_new= [-0.03459809 0.81596346 2.21863463]

gradient= [-2.83575544e-05 -1.15132415e-05 3.98707959e-05] w = [-0.03459809 0.81596346 2.21863463] w\_new= [-0.03459837 0.81596335 2.21863502]

gradient= [-2.83180932e-05 -1.14982918e-05 3.98163850e-05] w = [-0.03459837 0.81596335 2.21863502] w\_new= [-0.03459865 0.81596323 2.21863542]

gradient= [-2.82786870e-05 -1.14833613e-05 3.97620483e-05] w = [-0.03459865 0.81596323 2.21863542] w\_new= [-0.03459894 0.81596312 2.21863582]

gradient= [-2.82393357e-05 -1.14684501e-05 3.97077858e-05] w = [-0.03459894 0.81596312 2.21863582] w\_new= [-0.03459922 0.815963 2.21863622]

gradient= [-2.82000394e-05 -1.14535580e-05 3.96535973e-05] w = [-0.03459922 0.815963 2.21863622] w\_new= [-0.0345995 0.81596289 2.21863661]

gradient= [-2.81607978e-05 -1.14386850e-05 3.95994828e-05] w = [-0.0345995 0.81596289 2.21863661] w\_new= [-0.03459978 0.81596277 2.21863701]

gradient= [-2.81216109e-05 -1.14238312e-05 3.95454421e-05] w = [-0.03459978 0.81596277 2.21863701] w\_new= [-0.03460006 0.81596266 2.2186374 ]

gradient= [-2.80824787e-05 -1.14089964e-05 3.94914751e-05] w = [-0.03460006 0.81596266 2.2186374 ] w\_new= [-0.03460034 0.81596254 2.2186378 ]

gradient= [-2.80434011e-05 -1.13941807e-05 3.94375818e-05] w = [-0.03460034 0.81596254 2.2186378 ] w\_new= [-0.03460062 0.81596243 2.21863819]

gradient= [-2.80043780e-05 -1.13793841e-05 3.93837620e-05] w = [-0.03460062 0.81596243 2.21863819] w\_new= [-0.0346009 0.81596232 2.21863859]

gradient= [-2.79654092e-05 -1.13646065e-05 3.93300157e-05] w = [-0.0346009 0.81596232 2.21863859] w\_new= [-0.03460118 0.8159622 2.21863898]

gradient= [-2.79264949e-05 -1.13498478e-05 3.92763427e-05] w = [-0.03460118 0.8159622 2.21863898] w\_new= [-0.03460146 0.81596209 2.21863937]

gradient= [-2.78876347e-05 -1.13351082e-05 3.92227429e-05] w = [-0.03460146 0.81596209 2.21863937] w\_new= [-0.03460174 0.81596198 2.21863977]

gradient= [-2.78488288e-05 -1.13203875e-05 3.91692163e-05] w = [-0.03460174 0.81596198 2.21863977] w\_new= [-0.03460202 0.81596186 2.21864016]

gradient= [-2.78100770e-05 -1.13056857e-05 3.91157627e-05] w = [-0.03460202 0.81596186 2.21864016] w\_new= [-0.0346023 0.81596175 2.21864055]

gradient= [-2.77713792e-05 -1.12910029e-05 3.90623821e-05] w = [-0.0346023 0.81596175 2.21864055] w\_new= [-0.03460258 0.81596164 2.21864094]

gradient= [-2.77327354e-05 -1.12763389e-05 3.90090743e-05] w = [-0.03460258 0.81596164 2.21864094] w\_new= [-0.03460285 0.81596152 2.21864133]

gradient= [-2.76941455e-05 -1.12616937e-05 3.89558392e-05] w = [-0.03460285 0.81596152 2.21864133] w\_new= [-0.03460313 0.81596141 2.21864172]

gradient= [-2.76556093e-05 -1.12470674e-05 3.89026768e-05] w = [-0.03460313 0.81596141 2.21864172] w\_new= [-0.03460341 0.8159613 2.21864211]

gradient= [-2.76171270e-05 -1.12324599e-05 3.88495869e-05] w = [-0.03460341 0.8159613 2.21864211] w\_new= [-0.03460368 0.81596119 2.2186425 ]

gradient= [-2.75786982e-05 -1.12178712e-05 3.87965694e-05] w = [-0.03460368 0.81596119 2.2186425 ] w\_new= [-0.03460396 0.81596107 2.21864288]

gradient= [-2.75403231e-05 -1.12033012e-05 3.87436243e-05] w = [-0.03460396 0.81596107 2.21864288] w\_new= [-0.03460423 0.81596096 2.21864327]

gradient= [-2.75020015e-05 -1.11887500e-05 3.86907515e-05] w = [-0.03460423 0.81596096 2.21864327] w\_new= [-0.03460451 0.81596085 2.21864366]

gradient= [-2.74637333e-05 -1.11742174e-05 3.86379507e-05] w = [-0.03460451 0.81596085 2.21864366] w\_new= [-0.03460478 0.81596074 2.21864405]

gradient= [-2.74255185e-05 -1.11597036e-05 3.85852221e-05] w = [-0.03460478 0.81596074 2.21864405] w\_new= [-0.03460506 0.81596063 2.21864443]

gradient= [-2.73873569e-05 -1.11452084e-05 3.85325654e-05] w = [-0.03460506 0.81596063 2.21864443] w\_new= [-0.03460533 0.81596051 2.21864482]

gradient= [-2.73492486e-05 -1.11307319e-05 3.84799805e-05] w = [-0.03460533 0.81596051 2.21864482] w\_new= [-0.03460561 0.8159604 2.2186452 ]

gradient= [-2.73111934e-05 -1.11162740e-05 3.84274674e-05] w = [-0.03460561 0.8159604 2.2186452 ] w\_new= [-0.03460588 0.81596029 2.21864559]

gradient= [-2.72731913e-05 -1.11018346e-05 3.83750259e-05] w = [-0.03460588 0.81596029 2.21864559] w\_new= [-0.03460615 0.81596018 2.21864597]

gradient= [-2.72352422e-05 -1.10874139e-05 3.83226560e-05] w = [-0.03460615 0.81596018 2.21864597] w\_new= [-0.03460642 0.81596007 2.21864635]

gradient= [-2.71973459e-05 -1.10730116e-05 3.82703576e-05] w = [-0.03460642 0.81596007 2.21864635] w\_new= [-0.0346067 0.81595996 2.21864674]

gradient= [-2.71595026e-05 -1.10586279e-05 3.82181305e-05] w = [-0.0346067 0.81595996 2.21864674] w\_new= [-0.03460697 0.81595985 2.21864712]

gradient= [-2.71217120e-05 -1.10442627e-05 3.81659747e-05] w = [-0.03460697 0.81595985 2.21864712] w\_new= [-0.03460724 0.81595974 2.2186475 ]

gradient= [-2.70839740e-05 -1.10299160e-05 3.81138901e-05] w = [-0.03460724 0.81595974 2.2186475 ] w\_new= [-0.03460751 0.81595963 2.21864788]

gradient= [-2.70462888e-05 -1.10155877e-05 3.80618765e-05] w = [-0.03460751 0.81595963 2.21864788] w\_new= [-0.03460778 0.81595952 2.21864826]

gradient= [-2.70086560e-05 -1.10012779e-05 3.80099339e-05] w = [-0.03460778 0.81595952 2.21864826] w\_new= [-0.03460805 0.81595941 2.21864864]

gradient= [-2.69710757e-05 -1.09869864e-05 3.79580622e-05] w = [-0.03460805 0.81595941 2.21864864] w\_new= [-0.03460832 0.8159593 2.21864902]

gradient= [-2.69335479e-05 -1.09727134e-05 3.79062612e-05] w = [-0.03460832 0.8159593 2.21864902] w\_new= [-0.03460859 0.81595919 2.2186494 ]

gradient= [-2.68960723e-05 -1.09584586e-05 3.78545309e-05] w = [-0.03460859 0.81595919 2.2186494 ] w\_new= [-0.03460886 0.81595908 2.21864978]

gradient= [-2.68586490e-05 -1.09442223e-05 3.78028713e-05] w = [-0.03460886 0.81595908 2.21864978] w\_new= [-0.03460913 0.81595897 2.21865016]

gradient= [-2.68212779e-05 -1.09300042e-05 3.77512821e-05] w = [-0.03460913 0.81595897 2.21865016] w\_new= [-0.03460939 0.81595886 2.21865053]

gradient= [-2.67839589e-05 -1.09158044e-05 3.76997633e-05] w = [-0.03460939 0.81595886 2.21865053] w\_new= [-0.03460966 0.81595875 2.21865091]

gradient= [-2.67466919e-05 -1.09016229e-05 3.76483148e-05] w = [-0.03460966 0.81595875 2.21865091] w\_new= [-0.03460993 0.81595864 2.21865129]

gradient= [-2.67094769e-05 -1.08874596e-05 3.75969365e-05] w = [-0.03460993 0.81595864 2.21865129] w\_new= [-0.0346102 0.81595853 2.21865166]

gradient= [-2.66723138e-05 -1.08733145e-05 3.75456283e-05] w = [-0.0346102 0.81595853 2.21865166] w\_new= [-0.03461046 0.81595842 2.21865204]

gradient= [-2.66352025e-05 -1.08591877e-05 3.74943902e-05] w = [-0.03461046 0.81595842 2.21865204] w\_new= [-0.03461073 0.81595832 2.21865241]

gradient= [-2.65981430e-05 -1.08450790e-05 3.74432219e-05] w = [-0.03461073 0.81595832 2.21865241] w\_new= [-0.034611 0.81595821 2.21865279]

gradient= [-2.65611351e-05 -1.08309884e-05 3.73921235e-05] w = [-0.034611 0.81595821 2.21865279] w\_new= [-0.03461126 0.8159581 2.21865316]

gradient= [-2.65241788e-05 -1.08169160e-05 3.73410948e-05] w = [-0.03461126 0.8159581 2.21865316] w\_new= [-0.03461153 0.81595799 2.21865354]

gradient= [-2.64872740e-05 -1.08028617e-05 3.72901357e-05] w = [-0.03461153 0.81595799 2.21865354] w\_new= [-0.03461179 0.81595788 2.21865391]

gradient= [-2.64504207e-05 -1.07888254e-05 3.72392461e-05] w = [-0.03461179 0.81595788 2.21865391] w\_new= [-0.03461206 0.81595778 2.21865428]

gradient= [-2.64136188e-05 -1.07748072e-05 3.71884260e-05] w = [-0.03461206 0.81595778 2.21865428] w\_new= [-0.03461232 0.81595767 2.21865465]

gradient= [-2.63768682e-05 -1.07608071e-05 3.71376753e-05] w = [-0.03461232 0.81595767 2.21865465] w\_new= [-0.03461258 0.81595756 2.21865502]

gradient= [-2.63401689e-05 -1.07468249e-05 3.70869938e-05] w = [-0.03461258 0.81595756 2.21865502] w\_new= [-0.03461285 0.81595745 2.21865539]

gradient= [-2.63035207e-05 -1.07328608e-05 3.70363814e-05] w = [-0.03461285 0.81595745 2.21865539] w\_new= [-0.03461311 0.81595735 2.21865577]

gradient= [-2.62669236e-05 -1.07189146e-05 3.69858381e-05] w = [-0.03461311 0.81595735 2.21865577] w\_new= [-0.03461337 0.81595724 2.21865614]

gradient= [-2.62303775e-05 -1.07049863e-05 3.69353638e-05] w = [-0.03461337 0.81595724 2.21865614] w\_new= [-0.03461364 0.81595713 2.2186565 ]

gradient= [-2.61938824e-05 -1.06910760e-05 3.68849584e-05] w = [-0.03461364 0.81595713 2.2186565 ] w\_new= [-0.0346139 0.81595702 2.21865687]

gradient= [-2.61574381e-05 -1.06771835e-05 3.68346217e-05] w = [-0.0346139 0.81595702 2.21865687] w\_new= [-0.03461416 0.81595692 2.21865724]

gradient= [-2.61210447e-05 -1.06633090e-05 3.67843537e-05] w = [-0.03461416 0.81595692 2.21865724] w\_new= [-0.03461442 0.81595681 2.21865761]

gradient= [-2.60847021e-05 -1.06494522e-05 3.67341543e-05] w = [-0.03461442 0.81595681 2.21865761] w\_new= [-0.03461468 0.8159567 2.21865798]

gradient= [-2.60484100e-05 -1.06356134e-05 3.66840234e-05] w = [-0.03461468 0.8159567 2.21865798] w\_new= [-0.03461494 0.8159566 2.21865834]

gradient= [-2.60121686e-05 -1.06217923e-05 3.66339609e-05] w = [-0.03461494 0.8159566 2.21865834] w\_new= [-0.0346152 0.81595649 2.21865871]

gradient= [-2.59759778e-05 -1.06079890e-05 3.65839667e-05] w = [-0.0346152 0.81595649 2.21865871] w\_new= [-0.03461546 0.81595639 2.21865908]

gradient= [-2.59398373e-05 -1.05942034e-05 3.65340408e-05] w = [-0.03461546 0.81595639 2.21865908] w\_new= [-0.03461572 0.81595628 2.21865944]

gradient= [-2.59037473e-05 -1.05804356e-05 3.64841829e-05] w = [-0.03461572 0.81595628 2.21865944] w\_new= [-0.03461598 0.81595617 2.21865981]

gradient= [-2.58677076e-05 -1.05666855e-05 3.64343931e-05] w = [-0.03461598 0.81595617 2.21865981] w\_new= [-0.03461624 0.81595607 2.21866017]

gradient= [-2.58317181e-05 -1.05529531e-05 3.63846713e-05] w = [-0.03461624 0.81595607 2.21866017] w\_new= [-0.0346165 0.81595596 2.21866053]

gradient= [-2.57957788e-05 -1.05392384e-05 3.63350172e-05] w = [-0.0346165 0.81595596 2.21866053] w\_new= [-0.03461675 0.81595586 2.2186609 ]

gradient= [-2.57598896e-05 -1.05255413e-05 3.62854310e-05] w = [-0.03461675 0.81595586 2.2186609 ] w\_new= [-0.03461701 0.81595575 2.21866126]

gradient= [-2.57240505e-05 -1.05118619e-05 3.62359124e-05] w = [-0.03461701 0.81595575 2.21866126] w\_new= [-0.03461727 0.81595565 2.21866162]

gradient= [-2.56882613e-05 -1.04982000e-05 3.61864613e-05] w = [-0.03461727 0.81595565 2.21866162] w\_new= [-0.03461753 0.81595554 2.21866198]

gradient= [-2.56525220e-05 -1.04845557e-05 3.61370778e-05] w = [-0.03461753 0.81595554 2.21866198] w\_new= [-0.03461778 0.81595544 2.21866235]

gradient= [-2.56168326e-05 -1.04709290e-05 3.60877616e-05] w = [-0.03461778 0.81595544 2.21866235] w\_new= [-0.03461804 0.81595533 2.21866271]

gradient= [-2.55811929e-05 -1.04573198e-05 3.60385127e-05] w = [-0.03461804 0.81595533 2.21866271] w\_new= [-0.03461829 0.81595523 2.21866307]

gradient= [-2.55456029e-05 -1.04437282e-05 3.59893310e-05] w = [-0.03461829 0.81595523 2.21866307] w\_new= [-0.03461855 0.81595512 2.21866343]

gradient= [-2.55100625e-05 -1.04301540e-05 3.59402165e-05] w = [-0.03461855 0.81595512 2.21866343] w\_new= [-0.03461881 0.81595502 2.21866379]

gradient= [-2.54745716e-05 -1.04165973e-05 3.58911689e-05] w = [-0.03461881 0.81595502 2.21866379] w\_new= [-0.03461906 0.81595491 2.21866415]

gradient= [-2.54391303e-05 -1.04030580e-05 3.58421883e-05] w = [-0.03461906 0.81595491 2.21866415] w\_new= [-0.03461931 0.81595481 2.2186645 ]

gradient= [-2.54037383e-05 -1.03895362e-05 3.57932745e-05] w = [-0.03461931 0.81595481 2.2186645 ] w\_new= [-0.03461957 0.81595471 2.21866486]

gradient= [-2.53683957e-05 -1.03760318e-05 3.57444274e-05] w = [-0.03461957 0.81595471 2.21866486] w\_new= [-0.03461982 0.8159546 2.21866522]

gradient= [-2.53331023e-05 -1.03625447e-05 3.56956471e-05] w = [-0.03461982 0.8159546 2.21866522] w\_new= [-0.03462008 0.8159545 2.21866558]

gradient= [-2.52978582e-05 -1.03490750e-05 3.56469332e-05] w = [-0.03462008 0.8159545 2.21866558] w\_new= [-0.03462033 0.8159544 2.21866593]

gradient= [-2.52626632e-05 -1.03356226e-05 3.55982859e-05] w = [-0.03462033 0.8159544 2.21866593] w\_new= [-0.03462058 0.81595429 2.21866629]

gradient= [-2.52275173e-05 -1.03221876e-05 3.55497049e-05] w = [-0.03462058 0.81595429 2.21866629] w\_new= [-0.03462083 0.81595419 2.21866664]

gradient= [-2.51924203e-05 -1.03087698e-05 3.55011902e-05] w = [-0.03462083 0.81595419 2.21866664] w\_new= [-0.03462109 0.81595409 2.218667 ]

gradient= [-2.51573723e-05 -1.02953694e-05 3.54527417e-05] w = [-0.03462109 0.81595409 2.218667 ] w\_new= [-0.03462134 0.81595398 2.21866735]

gradient= [-2.51223732e-05 -1.02819861e-05 3.54043593e-05] w = [-0.03462134 0.81595398 2.21866735] w\_new= [-0.03462159 0.81595388 2.21866771]

gradient= [-2.50874228e-05 -1.02686201e-05 3.53560429e-05] w = [-0.03462159 0.81595388 2.21866771] w\_new= [-0.03462184 0.81595378 2.21866806]

gradient= [-2.50525212e-05 -1.02552713e-05 3.53077925e-05] w = [-0.03462184 0.81595378 2.21866806] w\_new= [-0.03462209 0.81595368 2.21866841]

gradient= [-2.50176682e-05 -1.02419397e-05 3.52596079e-05] w = [-0.03462209 0.81595368 2.21866841] w\_new= [-0.03462234 0.81595357 2.21866877]

gradient= [-2.49828639e-05 -1.02286252e-05 3.52114891e-05] w = [-0.03462234 0.81595357 2.21866877] w\_new= [-0.03462259 0.81595347 2.21866912]

gradient= [-2.49481080e-05 -1.02153279e-05 3.51634359e-05] w = [-0.03462259 0.81595347 2.21866912] w\_new= [-0.03462284 0.81595337 2.21866947]

gradient= [-2.49134006e-05 -1.02020477e-05 3.51154483e-05] w = [-0.03462284 0.81595337 2.21866947] w\_new= [-0.03462309 0.81595327 2.21866982]

gradient= [-2.48787416e-05 -1.01887846e-05 3.50675261e-05] w = [-0.03462309 0.81595327 2.21866982] w\_new= [-0.03462334 0.81595316 2.21867017]

gradient= [-2.48441309e-05 -1.01755385e-05 3.50196694e-05] w = [-0.03462334 0.81595316 2.21867017] w\_new= [-0.03462359 0.81595306 2.21867052]

gradient= [-2.48095684e-05 -1.01623095e-05 3.49718779e-05] w = [-0.03462359 0.81595306 2.21867052] w\_new= [-0.03462383 0.81595296 2.21867087]

gradient= [-2.47750541e-05 -1.01490976e-05 3.49241517e-05] w = [-0.03462383 0.81595296 2.21867087] w\_new= [-0.03462408 0.81595286 2.21867122]

gradient= [-2.47405880e-05 -1.01359026e-05 3.48764906e-05] w = [-0.03462408 0.81595286 2.21867122] w\_new= [-0.03462433 0.81595276 2.21867157]

gradient= [-2.47061699e-05 -1.01227247e-05 3.48288945e-05] w = [-0.03462433 0.81595276 2.21867157] w\_new= [-0.03462458 0.81595266 2.21867192]

gradient= [-2.46717997e-05 -1.01095637e-05 3.47813634e-05] w = [-0.03462458 0.81595266 2.21867192] w\_new= [-0.03462482 0.81595256 2.21867227]

gradient= [-2.46374775e-05 -1.00964196e-05 3.47338971e-05] w = [-0.03462482 0.81595256 2.21867227] w\_new= [-0.03462507 0.81595245 2.21867261]

gradient= [-2.46032032e-05 -1.00832925e-05 3.46864956e-05] w = [-0.03462507 0.81595245 2.21867261] w\_new= [-0.03462531 0.81595235 2.21867296]

gradient= [-2.45689766e-05 -1.00701822e-05 3.46391588e-05] w = [-0.03462531 0.81595235 2.21867296] w\_new= [-0.03462556 0.81595225 2.21867331]

gradient= [-2.45347977e-05 -1.00570889e-05 3.45918866e-05] w = [-0.03462556 0.81595225 2.21867331] w\_new= [-0.03462581 0.81595215 2.21867365]

gradient= [-2.45006665e-05 -1.00440124e-05 3.45446788e-05] w = [-0.03462581 0.81595215 2.21867365] w\_new= [-0.03462605 0.81595205 2.218674 ]

gradient= [-2.44665828e-05 -1.00309527e-05 3.44975355e-05] w = [-0.03462605 0.81595205 2.218674 ] w\_new= [-0.0346263 0.81595195 2.21867434]

gradient= [-2.44325467e-05 -1.00179099e-05 3.44504565e-05] w = [-0.0346263 0.81595195 2.21867434] w\_new= [-0.03462654 0.81595185 2.21867469]

gradient= [-2.43985580e-05 -1.00048838e-05 3.44034418e-05] w = [-0.03462654 0.81595185 2.21867469] w\_new= [-0.03462678 0.81595175 2.21867503]

gradient= [-2.43646167e-05 -9.99187453e-06 3.43564912e-05] w = [-0.03462678 0.81595175 2.21867503] w\_new= [-0.03462703 0.81595165 2.21867538]

gradient= [-2.43307227e-05 -9.97888200e-06 3.43096047e-05] w = [-0.03462703 0.81595165 2.21867538] w\_new= [-0.03462727 0.81595155 2.21867572]

gradient= [-2.42968759e-05 -9.96590620e-06 3.42627821e-05] w = [-0.03462727 0.81595155 2.21867572] w\_new= [-0.03462751 0.81595145 2.21867606]

gradient= [-2.42630764e-05 -9.95294710e-06 3.42160235e-05] w = [-0.03462751 0.81595145 2.21867606] w\_new= [-0.03462776 0.81595135 2.2186764 ]

gradient= [-2.42293239e-05 -9.94000469e-06 3.41693286e-05] w = [-0.03462776 0.81595135 2.2186764 ] w\_new= [-0.034628 0.81595125 2.21867675]

gradient= [-2.41956185e-05 -9.92707895e-06 3.41226975e-05] w = [-0.034628 0.81595125 2.21867675] w\_new= [-0.03462824 0.81595115 2.21867709]

gradient= [-2.41619601e-05 -9.91416985e-06 3.40761300e-05] w = [-0.03462824 0.81595115 2.21867709] w\_new= [-0.03462848 0.81595106 2.21867743]

gradient= [-2.41283486e-05 -9.90127738e-06 3.40296260e-05] w = [-0.03462848 0.81595106 2.21867743] w\_new= [-0.03462872 0.81595096 2.21867777]

gradient= [-2.40947840e-05 -9.88840151e-06 3.39831855e-05] w = [-0.03462872 0.81595096 2.21867777] w\_new= [-0.03462896 0.81595086 2.21867811]

gradient= [-2.40612662e-05 -9.87554222e-06 3.39368084e-05] w = [-0.03462896 0.81595086 2.21867811] w\_new= [-0.03462921 0.81595076 2.21867845]

gradient= [-2.40277950e-05 -9.86269948e-06 3.38904945e-05] w = [-0.03462921 0.81595076 2.21867845] w\_new= [-0.03462945 0.81595066 2.21867879]

gradient= [-2.39943706e-05 -9.84987329e-06 3.38442439e-05] w = [-0.03462945 0.81595066 2.21867879] w\_new= [-0.03462969 0.81595056 2.21867912]

gradient= [-2.39609927e-05 -9.83706361e-06 3.37980563e-05] w = [-0.03462969 0.81595056 2.21867912] w\_new= [-0.03462993 0.81595046 2.21867946]

gradient= [-2.39276614e-05 -9.82427044e-06 3.37519318e-05] w = [-0.03462993 0.81595046 2.21867946] w\_new= [-0.03463016 0.81595036 2.2186798 ]

gradient= [-2.38943765e-05 -9.81149373e-06 3.37058702e-05] w = [-0.03463016 0.81595036 2.2186798 ] w\_new= [-0.0346304 0.81595027 2.21868014]

gradient= [-2.38611380e-05 -9.79873348e-06 3.36598715e-05] w = [-0.0346304 0.81595027 2.21868014] w\_new= [-0.03463064 0.81595017 2.21868047]

gradient= [-2.38279458e-05 -9.78598967e-06 3.36139355e-05] w = [-0.03463064 0.81595017 2.21868047] w\_new= [-0.03463088 0.81595007 2.21868081]

gradient= [-2.37947999e-05 -9.77326227e-06 3.35680622e-05] w = [-0.03463088 0.81595007 2.21868081] w\_new= [-0.03463112 0.81594997 2.21868115]

gradient= [-2.37617003e-05 -9.76055126e-06 3.35222515e-05] w = [-0.03463112 0.81594997 2.21868115] w\_new= [-0.03463136 0.81594988 2.21868148]

gradient= [-2.37286467e-05 -9.74785662e-06 3.34765033e-05] w = [-0.03463136 0.81594988 2.21868148] w\_new= [-0.03463159 0.81594978 2.21868182]

gradient= [-2.36956392e-05 -9.73517833e-06 3.34308176e-05] w = [-0.03463159 0.81594978 2.21868182] w\_new= [-0.03463183 0.81594968 2.21868215]

gradient= [-2.36626778e-05 -9.72251637e-06 3.33851942e-05] w = [-0.03463183 0.81594968 2.21868215] w\_new= [-0.03463207 0.81594958 2.21868248]

gradient= [-2.36297623e-05 -9.70987072e-06 3.33396330e-05] w = [-0.03463207 0.81594958 2.21868248] w\_new= [-0.0346323 0.81594949 2.21868282]

gradient= [-2.35968926e-05 -9.69724136e-06 3.32941340e-05] w = [-0.0346323 0.81594949 2.21868282] w\_new= [-0.03463254 0.81594939 2.21868315]

gradient= [-2.35640688e-05 -9.68462826e-06 3.32486971e-05] w = [-0.03463254 0.81594939 2.21868315] w\_new= [-0.03463277 0.81594929 2.21868348]

gradient= [-2.35312908e-05 -9.67203142e-06 3.32033222e-05] w = [-0.03463277 0.81594929 2.21868348] w\_new= [-0.03463301 0.8159492 2.21868381]

gradient= [-2.34985584e-05 -9.65945079e-06 3.31580092e-05] w = [-0.03463301 0.8159492 2.21868381] w\_new= [-0.03463324 0.8159491 2.21868415]

gradient= [-2.34658716e-05 -9.64688638e-06 3.31127580e-05] w = [-0.03463324 0.8159491 2.21868415] w\_new= [-0.03463348 0.815949 2.21868448]

gradient= [-2.34332304e-05 -9.63433814e-06 3.30675686e-05] w = [-0.03463348 0.815949 2.21868448] w\_new= [-0.03463371 0.81594891 2.21868481]

gradient= [-2.34006348e-05 -9.62180608e-06 3.30224408e-05] w = [-0.03463371 0.81594891 2.21868481] w\_new= [-0.03463395 0.81594881 2.21868514]

gradient= [-2.33680845e-05 -9.60929015e-06 3.29773747e-05] w = [-0.03463395 0.81594881 2.21868514] w\_new= [-0.03463418 0.81594871 2.21868547]

gradient= [-2.33355796e-05 -9.59679035e-06 3.29323700e-05] w = [-0.03463418 0.81594871 2.21868547] w\_new= [-0.03463441 0.81594862 2.2186858 ]

gradient= [-2.33031200e-05 -9.58430665e-06 3.28874267e-05] w = [-0.03463441 0.81594862 2.2186858 ] w\_new= [-0.03463465 0.81594852 2.21868613]

gradient= [-2.32707057e-05 -9.57183903e-06 3.28425447e-05] w = [-0.03463465 0.81594852 2.21868613] w\_new= [-0.03463488 0.81594843 2.21868645]

gradient= [-2.32383366e-05 -9.55938748e-06 3.27977240e-05] w = [-0.03463488 0.81594843 2.21868645] w\_new= [-0.03463511 0.81594833 2.21868678]

gradient= [-2.32060125e-05 -9.54695196e-06 3.27529645e-05] w = [-0.03463511 0.81594833 2.21868678] w\_new= [-0.03463535 0.81594824 2.21868711]

gradient= [-2.31737336e-05 -9.53453247e-06 3.27082660e-05] w = [-0.03463535 0.81594824 2.21868711] w\_new= [-0.03463558 0.81594814 2.21868744]

gradient= [-2.31414996e-05 -9.52212897e-06 3.26636285e-05] w = [-0.03463558 0.81594814 2.21868744] w\_new= [-0.03463581 0.81594804 2.21868776]

gradient= [-2.31093105e-05 -9.50974146e-06 3.26190520e-05] w = [-0.03463581 0.81594804 2.21868776] w\_new= [-0.03463604 0.81594795 2.21868809]

gradient= [-2.30771663e-05 -9.49736990e-06 3.25745362e-05] w = [-0.03463604 0.81594795 2.21868809] w\_new= [-0.03463627 0.81594785 2.21868842]

gradient= [-2.30450669e-05 -9.48501429e-06 3.25300812e-05] w = [-0.03463627 0.81594785 2.21868842] w\_new= [-0.0346365 0.81594776 2.21868874]

gradient= [-2.30130123e-05 -9.47267459e-06 3.24856869e-05] w = [-0.0346365 0.81594776 2.21868874] w\_new= [-0.03463673 0.81594767 2.21868907]

gradient= [-2.29810023e-05 -9.46035079e-06 3.24413531e-05] w = [-0.03463673 0.81594767 2.21868907] w\_new= [-0.03463696 0.81594757 2.21868939]

gradient= [-2.29490370e-05 -9.44804287e-06 3.23970798e-05] w = [-0.03463696 0.81594757 2.21868939] w\_new= [-0.03463719 0.81594748 2.21868971]

gradient= [-2.29171162e-05 -9.43575081e-06 3.23528670e-05] w = [-0.03463719 0.81594748 2.21868971] w\_new= [-0.03463742 0.81594738 2.21869004]

gradient= [-2.28852399e-05 -9.42347459e-06 3.23087145e-05] w = [-0.03463742 0.81594738 2.21869004] w\_new= [-0.03463765 0.81594729 2.21869036]

gradient= [-2.28534080e-05 -9.41121418e-06 3.22646222e-05] w = [-0.03463765 0.81594729 2.21869036] w\_new= [-0.03463788 0.81594719 2.21869068]

gradient= [-2.28216205e-05 -9.39896957e-06 3.22205901e-05] w = [-0.03463788 0.81594719 2.21869068] w\_new= [-0.0346381 0.8159471 2.21869101]

gradient= [-2.27898773e-05 -9.38674074e-06 3.21766180e-05] w = [-0.0346381 0.8159471 2.21869101] w\_new= [-0.03463833 0.81594701 2.21869133]

gradient= [-2.27581783e-05 -9.37452767e-06 3.21327060e-05] w = [-0.03463833 0.81594701 2.21869133] w\_new= [-0.03463856 0.81594691 2.21869165]

gradient= [-2.27265236e-05 -9.36233034e-06 3.20888539e-05] w = [-0.03463856 0.81594691 2.21869165] w\_new= [-0.03463879 0.81594682 2.21869197]

gradient= [-2.26949129e-05 -9.35014872e-06 3.20450616e-05] w = [-0.03463879 0.81594682 2.21869197] w\_new= [-0.03463901 0.81594672 2.21869229]

gradient= [-2.26633463e-05 -9.33798280e-06 3.20013291e-05] w = [-0.03463901 0.81594672 2.21869229] w\_new= [-0.03463924 0.81594663 2.21869261]

gradient= [-2.26318237e-05 -9.32583256e-06 3.19576563e-05] w = [-0.03463924 0.81594663 2.21869261] w\_new= [-0.03463947 0.81594654 2.21869293]

gradient= [-2.26003450e-05 -9.31369797e-06 3.19140430e-05] w = [-0.03463947 0.81594654 2.21869293] w\_new= [-0.03463969 0.81594644 2.21869325]

gradient= [-2.25689102e-05 -9.30157902e-06 3.18704893e-05] w = [-0.03463969 0.81594644 2.21869325] w\_new= [-0.03463992 0.81594635 2.21869357]

gradient= [-2.25375193e-05 -9.28947570e-06 3.18269950e-05] w = [-0.03463992 0.81594635 2.21869357] w\_new= [-0.03464014 0.81594626 2.21869389]

gradient= [-2.25061720e-05 -9.27738796e-06 3.17835600e-05] w = [-0.03464014 0.81594626 2.21869389] w\_new= [-0.03464037 0.81594617 2.2186942 ]

gradient= [-2.24748685e-05 -9.26531581e-06 3.17401843e-05] w = [-0.03464037 0.81594617 2.2186942 ] w\_new= [-0.03464059 0.81594607 2.21869452]

gradient= [-2.24436086e-05 -9.25325921e-06 3.16968678e-05] w = [-0.03464059 0.81594607 2.21869452] w\_new= [-0.03464082 0.81594598 2.21869484]

gradient= [-2.24123922e-05 -9.24121816e-06 3.16536104e-05] w = [-0.03464082 0.81594598 2.21869484] w\_new= [-0.03464104 0.81594589 2.21869515]

gradient= [-2.23812194e-05 -9.22919262e-06 3.16104120e-05] w = [-0.03464104 0.81594589 2.21869515] w\_new= [-0.03464127 0.8159458 2.21869547]

gradient= [-2.23500900e-05 -9.21718258e-06 3.15672726e-05] w = [-0.03464127 0.8159458 2.21869547] w\_new= [-0.03464149 0.8159457 2.21869579]

gradient= [-2.23190040e-05 -9.20518801e-06 3.15241920e-05] w = [-0.03464149 0.8159457 2.21869579] w\_new= [-0.03464171 0.81594561 2.2186961 ]

gradient= [-2.22879613e-05 -9.19320891e-06 3.14811703e-05] w = [-0.03464171 0.81594561 2.2186961 ] w\_new= [-0.03464194 0.81594552 2.21869642]

gradient= [-2.22569619e-05 -9.18124525e-06 3.14382072e-05] w = [-0.03464194 0.81594552 2.21869642] w\_new= [-0.03464216 0.81594543 2.21869673]

gradient= [-2.22260057e-05 -9.16929701e-06 3.13953027e-05] w = [-0.03464216 0.81594543 2.21869673] w\_new= [-0.03464238 0.81594534 2.21869704]

gradient= [-2.21950927e-05 -9.15736417e-06 3.13524568e-05] w = [-0.03464238 0.81594534 2.21869704] w\_new= [-0.0346426 0.81594525 2.21869736]

gradient= [-2.21642227e-05 -9.14544670e-06 3.13096694e-05] w = [-0.0346426 0.81594525 2.21869736] w\_new= [-0.03464282 0.81594515 2.21869767]

gradient= [-2.21333957e-05 -9.13354460e-06 3.12669403e-05] w = [-0.03464282 0.81594515 2.21869767] w\_new= [-0.03464305 0.81594506 2.21869798]

gradient= [-2.21026117e-05 -9.12165785e-06 3.12242696e-05] w = [-0.03464305 0.81594506 2.21869798] w\_new= [-0.03464327 0.81594497 2.2186983 ]

gradient= [-2.20718707e-05 -9.10978641e-06 3.11816571e-05] w = [-0.03464327 0.81594497 2.2186983 ] w\_new= [-0.03464349 0.81594488 2.21869861]

gradient= [-2.20411724e-05 -9.09793027e-06 3.11391027e-05] w = [-0.03464349 0.81594488 2.21869861] w\_new= [-0.03464371 0.81594479 2.21869892]

gradient= [-2.20105169e-05 -9.08608942e-06 3.10966064e-05] w = [-0.03464371 0.81594479 2.21869892] w\_new= [-0.03464393 0.8159447 2.21869923]

gradient= [-2.19799042e-05 -9.07426384e-06 3.10541680e-05] w = [-0.03464393 0.8159447 2.21869923] w\_new= [-0.03464415 0.81594461 2.21869954]

gradient= [-2.19493341e-05 -9.06245349e-06 3.10117876e-05] w = [-0.03464415 0.81594461 2.21869954] w\_new= [-0.03464437 0.81594452 2.21869985]

gradient= [-2.19188067e-05 -9.05065837e-06 3.09694650e-05] w = [-0.03464437 0.81594452 2.21869985] w\_new= [-0.03464459 0.81594443 2.21870016]

gradient= [-2.18883217e-05 -9.03887846e-06 3.09272002e-05] w = [-0.03464459 0.81594443 2.21870016] w\_new= [-0.03464481 0.81594434 2.21870047]

gradient= [-2.18578793e-05 -9.02711373e-06 3.08849930e-05] w = [-0.03464481 0.81594434 2.21870047] w\_new= [-0.03464502 0.81594425 2.21870078]

gradient= [-2.18274793e-05 -9.01536417e-06 3.08428435e-05] w = [-0.03464502 0.81594425 2.21870078] w\_new= [-0.03464524 0.81594416 2.21870109]

gradient= [-2.17971217e-05 -9.00362976e-06 3.08007514e-05] w = [-0.03464524 0.81594416 2.21870109] w\_new= [-0.03464546 0.81594407 2.21870139]

gradient= [-2.17668063e-05 -8.99191047e-06 3.07587168e-05] w = [-0.03464546 0.81594407 2.21870139] w\_new= [-0.03464568 0.81594398 2.2187017 ]

gradient= [-2.17365332e-05 -8.98020630e-06 3.07167395e-05] w = [-0.03464568 0.81594398 2.2187017 ] w\_new= [-0.0346459 0.81594389 2.21870201]

gradient= [-2.17063023e-05 -8.96851721e-06 3.06748195e-05] w = [-0.0346459 0.81594389 2.21870201] w\_new= [-0.03464611 0.8159438 2.21870232]

gradient= [-2.16761136e-05 -8.95684319e-06 3.06329568e-05] w = [-0.03464611 0.8159438 2.21870232] w\_new= [-0.03464633 0.81594371 2.21870262]

gradient= [-2.16459669e-05 -8.94518423e-06 3.05911511e-05] w = [-0.03464633 0.81594371 2.21870262] w\_new= [-0.03464655 0.81594362 2.21870293]

gradient= [-2.16158622e-05 -8.93354029e-06 3.05494025e-05] w = [-0.03464655 0.81594362 2.21870293] w\_new= [-0.03464676 0.81594353 2.21870323]

gradient= [-2.15857995e-05 -8.92191137e-06 3.05077108e-05] w = [-0.03464676 0.81594353 2.21870323] w\_new= [-0.03464698 0.81594344 2.21870354]

gradient= [-2.15557786e-05 -8.91029744e-06 3.04660761e-05] w = [-0.03464698 0.81594344 2.21870354] w\_new= [-0.03464719 0.81594335 2.21870384]

gradient= [-2.15257996e-05 -8.89869849e-06 3.04244981e-05] w = [-0.03464719 0.81594335 2.21870384] w\_new= [-0.03464741 0.81594326 2.21870415]

gradient= [-2.14958624e-05 -8.88711449e-06 3.03829769e-05] w = [-0.03464741 0.81594326 2.21870415] w\_new= [-0.03464762 0.81594317 2.21870445]

gradient= [-2.14659669e-05 -8.87554543e-06 3.03415124e-05] w = [-0.03464762 0.81594317 2.21870445] w\_new= [-0.03464784 0.81594308 2.21870476]

gradient= [-2.14361131e-05 -8.86399129e-06 3.03001044e-05] w = [-0.03464784 0.81594308 2.21870476] w\_new= [-0.03464805 0.81594299 2.21870506]

gradient= [-2.14063009e-05 -8.85245204e-06 3.02587529e-05] w = [-0.03464805 0.81594299 2.21870506] w\_new= [-0.03464827 0.81594291 2.21870536]

gradient= [-2.13765302e-05 -8.84092768e-06 3.02174579e-05] w = [-0.03464827 0.81594291 2.21870536] w\_new= [-0.03464848 0.81594282 2.21870566]

gradient= [-2.13468010e-05 -8.82941817e-06 3.01762192e-05] w = [-0.03464848 0.81594282 2.21870566] w\_new= [-0.03464869 0.81594273 2.21870596]

gradient= [-2.13171132e-05 -8.81792351e-06 3.01350368e-05] w = [-0.03464869 0.81594273 2.21870596] w\_new= [-0.03464891 0.81594264 2.21870627]

gradient= [-2.12874669e-05 -8.80644367e-06 3.00939105e-05] w = [-0.03464891 0.81594264 2.21870627] w\_new= [-0.03464912 0.81594255 2.21870657]

gradient= [-2.12578618e-05 -8.79497863e-06 3.00528404e-05] w = [-0.03464912 0.81594255 2.21870657] w\_new= [-0.03464933 0.81594246 2.21870687]

gradient= [-2.12282980e-05 -8.78352838e-06 3.00118263e-05] w = [-0.03464933 0.81594246 2.21870687] w\_new= [-0.03464954 0.81594238 2.21870717]

gradient= [-2.11987753e-05 -8.77209289e-06 2.99708682e-05] w = [-0.03464954 0.81594238 2.21870717] w\_new= [-0.03464976 0.81594229 2.21870747]

gradient= [-2.11692939e-05 -8.76067215e-06 2.99299660e-05] w = [-0.03464976 0.81594229 2.21870747] w\_new= [-0.03464997 0.8159422 2.21870777]

gradient= [-2.11398535e-05 -8.74926614e-06 2.98891196e-05] w = [-0.03464997 0.8159422 2.21870777] w\_new= [-0.03465018 0.81594211 2.21870807]

gradient= [-2.11104541e-05 -8.73787484e-06 2.98483289e-05] w = [-0.03465018 0.81594211 2.21870807] w\_new= [-0.03465039 0.81594203 2.21870836]

gradient= [-2.10810957e-05 -8.72649822e-06 2.98075939e-05] w = [-0.03465039 0.81594203 2.21870836] w\_new= [-0.0346506 0.81594194 2.21870866]

gradient= [-2.10517782e-05 -8.71513629e-06 2.97669145e-05] w = [-0.0346506 0.81594194 2.21870866] w\_new= [-0.03465081 0.81594185 2.21870896]

gradient= [-2.10225016e-05 -8.70378900e-06 2.97262906e-05] w = [-0.03465081 0.81594185 2.21870896] w\_new= [-0.03465102 0.81594177 2.21870926]

gradient= [-2.09932658e-05 -8.69245635e-06 2.96857221e-05] w = [-0.03465102 0.81594177 2.21870926] w\_new= [-0.03465123 0.81594168 2.21870955]

gradient= [-2.09640707e-05 -8.68113832e-06 2.96452090e-05] w = [-0.03465123 0.81594168 2.21870955] w\_new= [-0.03465144 0.81594159 2.21870985]

gradient= [-2.09349163e-05 -8.66983488e-06 2.96047511e-05] w = [-0.03465144 0.81594159 2.21870985] w\_new= [-0.03465165 0.8159415 2.21871015]

gradient= [-2.09058025e-05 -8.65854602e-06 2.95643485e-05] w = [-0.03465165 0.8159415 2.21871015] w\_new= [-0.03465186 0.81594142 2.21871044]

gradient= [-2.08767293e-05 -8.64727172e-06 2.95240010e-05] w = [-0.03465186 0.81594142 2.21871044] w\_new= [-0.03465207 0.81594133 2.21871074]

gradient= [-2.08476966e-05 -8.63601197e-06 2.94837085e-05] w = [-0.03465207 0.81594133 2.21871074] w\_new= [-0.03465228 0.81594125 2.21871103]

gradient= [-2.08187043e-05 -8.62476674e-06 2.94434711e-05] w = [-0.03465228 0.81594125 2.21871103] w\_new= [-0.03465249 0.81594116 2.21871133]

gradient= [-2.07897525e-05 -8.61353601e-06 2.94032885e-05] w = [-0.03465249 0.81594116 2.21871133] w\_new= [-0.03465269 0.81594107 2.21871162]

gradient= [-2.07608410e-05 -8.60231977e-06 2.93631608e-05] w = [-0.03465269 0.81594107 2.21871162] w\_new= [-0.0346529 0.81594099 2.21871191]

gradient= [-2.07319698e-05 -8.59111799e-06 2.93230878e-05] w = [-0.0346529 0.81594099 2.21871191] w\_new= [-0.03465311 0.8159409 2.21871221]

gradient= [-2.07031388e-05 -8.57993067e-06 2.92830695e-05] w = [-0.03465311 0.8159409 2.21871221] w\_new= [-0.03465332 0.81594082 2.2187125 ]

gradient= [-2.06743480e-05 -8.56875777e-06 2.92431058e-05] w = [-0.03465332 0.81594082 2.2187125 ] w\_new= [-0.03465352 0.81594073 2.21871279]

gradient= [-2.06455973e-05 -8.55759929e-06 2.92031966e-05] w = [-0.03465352 0.81594073 2.21871279] w\_new= [-0.03465373 0.81594064 2.21871308]

gradient= [-2.06168867e-05 -8.54645521e-06 2.91633419e-05] w = [-0.03465373 0.81594064 2.21871308] w\_new= [-0.03465394 0.81594056 2.21871338]

gradient= [-2.05882161e-05 -8.53532550e-06 2.91235416e-05] w = [-0.03465394 0.81594056 2.21871338] w\_new= [-0.03465414 0.81594047 2.21871367]

gradient= [-2.05595854e-05 -8.52421014e-06 2.90837956e-05] w = [-0.03465414 0.81594047 2.21871367] w\_new= [-0.03465435 0.81594039 2.21871396]

gradient= [-2.05309947e-05 -8.51310913e-06 2.90441038e-05] w = [-0.03465435 0.81594039 2.21871396] w\_new= [-0.03465455 0.8159403 2.21871425]

gradient= [-2.05024438e-05 -8.50202243e-06 2.90044662e-05] w = [-0.03465455 0.8159403 2.21871425] w\_new= [-0.03465476 0.81594022 2.21871454]

gradient= [-2.04739326e-05 -8.49095004e-06 2.89648827e-05] w = [-0.03465476 0.81594022 2.21871454] w\_new= [-0.03465496 0.81594013 2.21871483]

gradient= [-2.04454612e-05 -8.47989194e-06 2.89253531e-05] w = [-0.03465496 0.81594013 2.21871483] w\_new= [-0.03465517 0.81594005 2.21871512]

gradient= [-2.04170295e-05 -8.46884810e-06 2.88858776e-05] w = [-0.03465517 0.81594005 2.21871512] w\_new= [-0.03465537 0.81593996 2.21871541]

gradient= [-2.03886374e-05 -8.45781850e-06 2.88464559e-05] w = [-0.03465537 0.81593996 2.21871541] w\_new= [-0.03465557 0.81593988 2.2187157 ]

gradient= [-2.03602848e-05 -8.44680314e-06 2.88070879e-05] w = [-0.03465557 0.81593988 2.2187157 ] w\_new= [-0.03465578 0.81593979 2.21871598]

gradient= [-2.03319717e-05 -8.43580199e-06 2.87677737e-05] w = [-0.03465578 0.81593979 2.21871598] w\_new= [-0.03465598 0.81593971 2.21871627]

gradient= [-2.03036982e-05 -8.42481503e-06 2.87285132e-05] w = [-0.03465598 0.81593971 2.21871627] w\_new= [-0.03465618 0.81593963 2.21871656]

gradient= [-2.02754640e-05 -8.41384225e-06 2.86893062e-05] w = [-0.03465618 0.81593963 2.21871656] w\_new= [-0.03465639 0.81593954 2.21871685]

gradient= [-2.02472691e-05 -8.40288363e-06 2.86501527e-05] w = [-0.03465639 0.81593954 2.21871685] w\_new= [-0.03465659 0.81593946 2.21871713]

gradient= [-2.02191135e-05 -8.39193914e-06 2.86110527e-05] w = [-0.03465659 0.81593946 2.21871713] w\_new= [-0.03465679 0.81593937 2.21871742]

gradient= [-2.01909972e-05 -8.38100878e-06 2.85720060e-05] w = [-0.03465679 0.81593937 2.21871742] w\_new= [-0.03465699 0.81593929 2.2187177 ]

gradient= [-2.01629200e-05 -8.37009252e-06 2.85330125e-05] w = [-0.03465699 0.81593929 2.2187177 ] w\_new= [-0.0346572 0.81593921 2.21871799]

gradient= [-2.01348820e-05 -8.35919035e-06 2.84940723e-05] w = [-0.0346572 0.81593921 2.21871799] w\_new= [-0.0346574 0.81593912 2.21871827]

gradient= [-2.01068830e-05 -8.34830224e-06 2.84551853e-05] w = [-0.0346574 0.81593912 2.21871827] w\_new= [-0.0346576 0.81593904 2.21871856]

gradient= [-2.00789231e-05 -8.33742818e-06 2.84163512e-05] w = [-0.0346576 0.81593904 2.21871856] w\_new= [-0.0346578 0.81593896 2.21871884]

gradient= [-2.00510021e-05 -8.32656815e-06 2.83775702e-05] w = [-0.0346578 0.81593896 2.21871884] w\_new= [-0.034658 0.81593887 2.21871913]

gradient= [-2.00231200e-05 -8.31572214e-06 2.83388421e-05] w = [-0.034658 0.81593887 2.21871913] w\_new= [-0.0346582 0.81593879 2.21871941]

gradient= [-1.99952767e-05 -8.30489012e-06 2.83001669e-05] w = [-0.0346582 0.81593879 2.21871941] w\_new= [-0.0346584 0.81593871 2.21871969]

gradient= [-1.99674723e-05 -8.29407208e-06 2.82615444e-05] w = [-0.0346584 0.81593871 2.21871969] w\_new= [-0.0346586 0.81593862 2.21871998]

gradient= [-1.99397066e-05 -8.28326801e-06 2.82229746e-05] w = [-0.0346586 0.81593862 2.21871998] w\_new= [-0.0346588 0.81593854 2.21872026]

gradient= [-1.99119796e-05 -8.27247787e-06 2.81844574e-05] w = [-0.0346588 0.81593854 2.21872026] w\_new= [-0.034659 0.81593846 2.21872054]

gradient= [-1.98842912e-05 -8.26170166e-06 2.81459928e-05] w = [-0.034659 0.81593846 2.21872054] w\_new= [-0.0346592 0.81593838 2.21872082]

gradient= [-1.98566414e-05 -8.25093935e-06 2.81075807e-05] w = [-0.0346592 0.81593838 2.21872082] w\_new= [-0.03465939 0.81593829 2.2187211 ]

gradient= [-1.98290301e-05 -8.24019093e-06 2.80692210e-05] w = [-0.03465939 0.81593829 2.2187211 ] w\_new= [-0.03465959 0.81593821 2.21872138]

gradient= [-1.98014573e-05 -8.22945639e-06 2.80309137e-05] w = [-0.03465959 0.81593821 2.21872138] w\_new= [-0.03465979 0.81593813 2.21872166]

gradient= [-1.97739229e-05 -8.21873570e-06 2.79926586e-05] w = [-0.03465979 0.81593813 2.21872166] w\_new= [-0.03465999 0.81593805 2.21872194]

gradient= [-1.97464269e-05 -8.20802884e-06 2.79544557e-05] w = [-0.03465999 0.81593805 2.21872194] w\_new= [-0.03466019 0.81593796 2.21872222]

gradient= [-1.97189692e-05 -8.19733581e-06 2.79163050e-05] w = [-0.03466019 0.81593796 2.21872222] w\_new= [-0.03466038 0.81593788 2.2187225 ]

gradient= [-1.96915497e-05 -8.18665657e-06 2.78782063e-05] w = [-0.03466038 0.81593788 2.2187225 ] w\_new= [-0.03466058 0.8159378 2.21872278]

gradient= [-1.96641685e-05 -8.17599112e-06 2.78401596e-05] w = [-0.03466058 0.8159378 2.21872278] w\_new= [-0.03466078 0.81593772 2.21872306]

gradient= [-1.96368254e-05 -8.16533943e-06 2.78021648e-05] w = [-0.03466078 0.81593772 2.21872306] w\_new= [-0.03466097 0.81593764 2.21872334]

gradient= [-1.96095204e-05 -8.15470149e-06 2.77642218e-05] w = [-0.03466097 0.81593764 2.21872334] w\_new= [-0.03466117 0.81593755 2.21872361]

gradient= [-1.95822534e-05 -8.14407728e-06 2.77263307e-05] w = [-0.03466117 0.81593755 2.21872361] w\_new= [-0.03466137 0.81593747 2.21872389]

gradient= [-1.95550244e-05 -8.13346678e-06 2.76884912e-05] w = [-0.03466137 0.81593747 2.21872389] w\_new= [-0.03466156 0.81593739 2.21872417]

gradient= [-1.95278334e-05 -8.12286998e-06 2.76507034e-05] w = [-0.03466156 0.81593739 2.21872417] w\_new= [-0.03466176 0.81593731 2.21872445]

gradient= [-1.95006803e-05 -8.11228686e-06 2.76129671e-05] w = [-0.03466176 0.81593731 2.21872445] w\_new= [-0.03466195 0.81593723 2.21872472]

gradient= [-1.94735650e-05 -8.10171739e-06 2.75752823e-05] w = [-0.03466195 0.81593723 2.21872472] w\_new= [-0.03466215 0.81593715 2.218725 ]

gradient= [-1.94464874e-05 -8.09116157e-06 2.75376490e-05] w = [-0.03466215 0.81593715 2.218725 ] w\_new= [-0.03466234 0.81593707 2.21872527]

gradient= [-1.94194476e-05 -8.08061938e-06 2.75000670e-05] w = [-0.03466234 0.81593707 2.21872527] w\_new= [-0.03466253 0.81593699 2.21872555]

gradient= [-1.93924455e-05 -8.07009079e-06 2.74625363e-05] w = [-0.03466253 0.81593699 2.21872555] w\_new= [-0.03466273 0.81593691 2.21872582]

gradient= [-1.93654810e-05 -8.05957580e-06 2.74250568e-05] w = [-0.03466273 0.81593691 2.21872582] w\_new= [-0.03466292 0.81593683 2.2187261 ]

gradient= [-1.93385540e-05 -8.04907438e-06 2.73876284e-05] w = [-0.03466292 0.81593683 2.2187261 ] w\_new= [-0.03466312 0.81593675 2.21872637]

gradient= [-1.93116646e-05 -8.03858651e-06 2.73502511e-05] w = [-0.03466312 0.81593675 2.21872637] w\_new= [-0.03466331 0.81593666 2.21872664]

gradient= [-1.92848126e-05 -8.02811218e-06 2.73129248e-05] w = [-0.03466331 0.81593666 2.21872664] w\_new= [-0.0346635 0.81593658 2.21872692]

gradient= [-1.92579981e-05 -8.01765138e-06 2.72756495e-05] w = [-0.0346635 0.81593658 2.21872692] w\_new= [-0.03466369 0.8159365 2.21872719]

gradient= [-1.92312209e-05 -8.00720408e-06 2.72384250e-05] w = [-0.03466369 0.8159365 2.21872719] w\_new= [-0.03466389 0.81593642 2.21872746]

gradient= [-1.92044810e-05 -7.99677027e-06 2.72012513e-05] w = [-0.03466389 0.81593642 2.21872746] w\_new= [-0.03466408 0.81593634 2.21872773]

gradient= [-1.91777784e-05 -7.98634992e-06 2.71641283e-05] w = [-0.03466408 0.81593634 2.21872773] w\_new= [-0.03466427 0.81593626 2.21872801]

gradient= [-1.91511130e-05 -7.97594303e-06 2.71270560e-05] w = [-0.03466427 0.81593626 2.21872801] w\_new= [-0.03466446 0.81593618 2.21872828]

gradient= [-1.91244847e-05 -7.96554958e-06 2.70900343e-05] w = [-0.03466446 0.81593618 2.21872828] w\_new= [-0.03466465 0.8159361 2.21872855]

gradient= [-1.90978935e-05 -7.95516954e-06 2.70530631e-05] w = [-0.03466465 0.8159361 2.21872855] w\_new= [-0.03466484 0.81593603 2.21872882]

gradient= [-1.90713394e-05 -7.94480291e-06 2.70161423e-05] w = [-0.03466484 0.81593603 2.21872882] w\_new= [-0.03466503 0.81593595 2.21872909]

gradient= [-1.90448223e-05 -7.93444965e-06 2.69792719e-05] w = [-0.03466503 0.81593595 2.21872909] w\_new= [-0.03466522 0.81593587 2.21872936]

gradient= [-1.90183421e-05 -7.92410977e-06 2.69424519e-05] w = [-0.03466522 0.81593587 2.21872936] w\_new= [-0.03466542 0.81593579 2.21872963]

gradient= [-1.89918988e-05 -7.91378324e-06 2.69056820e-05] w = [-0.03466542 0.81593579 2.21872963] w\_new= [-0.0346656 0.81593571 2.2187299 ]

gradient= [-1.89654923e-05 -7.90347004e-06 2.68689624e-05] w = [-0.0346656 0.81593571 2.2187299 ] w\_new= [-0.03466579 0.81593563 2.21873017]

gradient= [-1.89391227e-05 -7.89317015e-06 2.68322928e-05] w = [-0.03466579 0.81593563 2.21873017] w\_new= [-0.03466598 0.81593555 2.21873043]

gradient= [-1.89127898e-05 -7.88288357e-06 2.67956733e-05] w = [-0.03466598 0.81593555 2.21873043] w\_new= [-0.03466617 0.81593547 2.2187307 ]

gradient= [-1.88864935e-05 -7.87261026e-06 2.67591038e-05] w = [-0.03466617 0.81593547 2.2187307 ] w\_new= [-0.03466636 0.81593539 2.21873097]

gradient= [-1.88602339e-05 -7.86235023e-06 2.67225841e-05] w = [-0.03466636 0.81593539 2.21873097] w\_new= [-0.03466655 0.81593531 2.21873124]

gradient= [-1.88340109e-05 -7.85210344e-06 2.66861143e-05] w = [-0.03466655 0.81593531 2.21873124] w\_new= [-0.03466674 0.81593524 2.2187315 ]

gradient= [-1.88078244e-05 -7.84186988e-06 2.66496943e-05] w = [-0.03466674 0.81593524 2.2187315 ] w\_new= [-0.03466693 0.81593516 2.21873177]

gradient= [-1.87816744e-05 -7.83164953e-06 2.66133239e-05] w = [-0.03466693 0.81593516 2.21873177] w\_new= [-0.03466711 0.81593508 2.21873204]

gradient= [-1.87555608e-05 -7.82144239e-06 2.65770032e-05] w = [-0.03466711 0.81593508 2.21873204] w\_new= [-0.0346673 0.815935 2.2187323]

gradient= [-1.87294837e-05 -7.81124842e-06 2.65407321e-05] w = [-0.0346673 0.815935 2.2187323] w\_new= [-0.03466749 0.81593492 2.21873257]

gradient= [-1.87034428e-05 -7.80106762e-06 2.65045104e-05] w = [-0.03466749 0.81593492 2.21873257] w\_new= [-0.03466768 0.81593484 2.21873283]

gradient= [-1.86774382e-05 -7.79089996e-06 2.64683382e-05] w = [-0.03466768 0.81593484 2.21873283] w\_new= [-0.03466786 0.81593477 2.2187331 ]

gradient= [-1.86514699e-05 -7.78074544e-06 2.64322153e-05] w = [-0.03466786 0.81593477 2.2187331 ] w\_new= [-0.03466805 0.81593469 2.21873336]

gradient= [-1.86255377e-05 -7.77060403e-06 2.63961417e-05] w = [-0.03466805 0.81593469 2.21873336] w\_new= [-0.03466824 0.81593461 2.21873363]

gradient= [-1.85996416e-05 -7.76047571e-06 2.63601173e-05] w = [-0.03466824 0.81593461 2.21873363] w\_new= [-0.03466842 0.81593453 2.21873389]

gradient= [-1.85737817e-05 -7.75036048e-06 2.63241421e-05] w = [-0.03466842 0.81593453 2.21873389] w\_new= [-0.03466861 0.81593446 2.21873415]

gradient= [-1.85479577e-05 -7.74025831e-06 2.62882160e-05] w = [-0.03466861 0.81593446 2.21873415] w\_new= [-0.03466879 0.81593438 2.21873441]

gradient= [-1.85221698e-05 -7.73016919e-06 2.62523389e-05] w = [-0.03466879 0.81593438 2.21873441] w\_new= [-0.03466898 0.8159343 2.21873468]

gradient= [-1.84964177e-05 -7.72009309e-06 2.62165108e-05] w = [-0.03466898 0.8159343 2.21873468] w\_new= [-0.03466916 0.81593422 2.21873494]

gradient= [-1.84707015e-05 -7.71003001e-06 2.61807316e-05] w = [-0.03466916 0.81593422 2.21873494] w\_new= [-0.03466935 0.81593415 2.2187352 ]

gradient= [-1.84450212e-05 -7.69997993e-06 2.61450011e-05] w = [-0.03466935 0.81593415 2.2187352 ] w\_new= [-0.03466953 0.81593407 2.21873546]

gradient= [-1.84193766e-05 -7.68994282e-06 2.61093195e-05] w = [-0.03466953 0.81593407 2.21873546] w\_new= [-0.03466972 0.81593399 2.21873572]

gradient= [-1.83937678e-05 -7.67991868e-06 2.60736865e-05] w = [-0.03466972 0.81593399 2.21873572] w\_new= [-0.0346699 0.81593392 2.21873598]

gradient= [-1.83681946e-05 -7.66990749e-06 2.60381021e-05] w = [-0.0346699 0.81593392 2.21873598] w\_new= [-0.03467008 0.81593384 2.21873625]

gradient= [-1.83426571e-05 -7.65990923e-06 2.60025663e-05] w = [-0.03467008 0.81593384 2.21873625] w\_new= [-0.03467027 0.81593376 2.21873651]

gradient= [-1.83171551e-05 -7.64992388e-06 2.59670790e-05] w = [-0.03467027 0.81593376 2.21873651] w\_new= [-0.03467045 0.81593369 2.21873676]

gradient= [-1.82916887e-05 -7.63995143e-06 2.59316401e-05] w = [-0.03467045 0.81593369 2.21873676] w\_new= [-0.03467063 0.81593361 2.21873702]

gradient= [-1.82662577e-05 -7.62999186e-06 2.58962496e-05] w = [-0.03467063 0.81593361 2.21873702] w\_new= [-0.03467082 0.81593353 2.21873728]

gradient= [-1.82408622e-05 -7.62004516e-06 2.58609074e-05] w = [-0.03467082 0.81593353 2.21873728] w\_new= [-0.034671 0.81593346 2.21873754]

gradient= [-1.82155021e-05 -7.61011130e-06 2.58256134e-05] w = [-0.034671 0.81593346 2.21873754] w\_new= [-0.03467118 0.81593338 2.2187378 ]

gradient= [-1.81901772e-05 -7.60019027e-06 2.57903675e-05] w = [-0.03467118 0.81593338 2.2187378 ] w\_new= [-0.03467136 0.81593331 2.21873806]

gradient= [-1.81648877e-05 -7.59028207e-06 2.57551698e-05] w = [-0.03467136 0.81593331 2.21873806] w\_new= [-0.03467154 0.81593323 2.21873832]

gradient= [-1.81396334e-05 -7.58038666e-06 2.57200200e-05] w = [-0.03467154 0.81593323 2.21873832] w\_new= [-0.03467173 0.81593315 2.21873857]

gradient= [-1.81144142e-05 -7.57050403e-06 2.56849183e-05] w = [-0.03467173 0.81593315 2.21873857] w\_new= [-0.03467191 0.81593308 2.21873883]

gradient= [-1.80892302e-05 -7.56063417e-06 2.56498644e-05] w = [-0.03467191 0.81593308 2.21873883] w\_new= [-0.03467209 0.815933 2.21873909]

gradient= [-1.80640813e-05 -7.55077706e-06 2.56148584e-05] w = [-0.03467209 0.815933 2.21873909] w\_new= [-0.03467227 0.81593293 2.21873934]

gradient= [-1.80389674e-05 -7.54093268e-06 2.55799001e-05] w = [-0.03467227 0.81593293 2.21873934] w\_new= [-0.03467245 0.81593285 2.2187396 ]

gradient= [-1.80138885e-05 -7.53110102e-06 2.55449896e-05] w = [-0.03467245 0.81593285 2.2187396 ] w\_new= [-0.03467263 0.81593278 2.21873985]

gradient= [-1.79888446e-05 -7.52128206e-06 2.55101266e-05] w = [-0.03467263 0.81593278 2.21873985] w\_new= [-0.03467281 0.8159327 2.21874011]

gradient= [-1.79638355e-05 -7.51147579e-06 2.54753113e-05] w = [-0.03467281 0.8159327 2.21874011] w\_new= [-0.03467299 0.81593263 2.21874036]

gradient= [-1.79388613e-05 -7.50168218e-06 2.54405434e-05] w = [-0.03467299 0.81593263 2.21874036] w\_new= [-0.03467317 0.81593255 2.21874062]

gradient= [-1.79139218e-05 -7.49190123e-06 2.54058230e-05] w = [-0.03467317 0.81593255 2.21874062] w\_new= [-0.03467335 0.81593248 2.21874087]

gradient= [-1.78890171e-05 -7.48213292e-06 2.53711500e-05] w = [-0.03467335 0.81593248 2.21874087] w\_new= [-0.03467353 0.8159324 2.21874113]

gradient= [-1.78641471e-05 -7.47237722e-06 2.53365243e-05] w = [-0.03467353 0.8159324 2.21874113] w\_new= [-0.03467371 0.81593233 2.21874138]

gradient= [-1.78393117e-05 -7.46263413e-06 2.53019458e-05] w = [-0.03467371 0.81593233 2.21874138] w\_new= [-0.03467388 0.81593225 2.21874163]

gradient= [-1.78145109e-05 -7.45290363e-06 2.52674146e-05] w = [-0.03467388 0.81593225 2.21874163] w\_new= [-0.03467406 0.81593218 2.21874188]

gradient= [-1.77897447e-05 -7.44318570e-06 2.52329304e-05] w = [-0.03467406 0.81593218 2.21874188] w\_new= [-0.03467424 0.8159321 2.21874214]

gradient= [-1.77650130e-05 -7.43348032e-06 2.51984933e-05] w = [-0.03467424 0.8159321 2.21874214] w\_new= [-0.03467442 0.81593203 2.21874239]

gradient= [-1.77403157e-05 -7.42378749e-06 2.51641032e-05] w = [-0.03467442 0.81593203 2.21874239] w\_new= [-0.03467459 0.81593195 2.21874264]

gradient= [-1.77156528e-05 -7.41410718e-06 2.51297600e-05] w = [-0.03467459 0.81593195 2.21874264] w\_new= [-0.03467477 0.81593188 2.21874289]

gradient= [-1.76910243e-05 -7.40443938e-06 2.50954637e-05] w = [-0.03467477 0.81593188 2.21874289] w\_new= [-0.03467495 0.81593181 2.21874314]

gradient= [-1.76664301e-05 -7.39478407e-06 2.50612142e-05] w = [-0.03467495 0.81593181 2.21874314] w\_new= [-0.03467513 0.81593173 2.21874339]

gradient= [-1.76418702e-05 -7.38514124e-06 2.50270114e-05] w = [-0.03467513 0.81593173 2.21874339] w\_new= [-0.0346753 0.81593166 2.21874364]

gradient= [-1.76173444e-05 -7.37551086e-06 2.49928553e-05] w = [-0.0346753 0.81593166 2.21874364] w\_new= [-0.03467548 0.81593158 2.21874389]

gradient= [-1.75928528e-05 -7.36589293e-06 2.49587458e-05] w = [-0.03467548 0.81593158 2.21874389] w\_new= [-0.03467565 0.81593151 2.21874414]

gradient= [-1.75683954e-05 -7.35628743e-06 2.49246828e-05] w = [-0.03467565 0.81593151 2.21874414] w\_new= [-0.03467583 0.81593144 2.21874439]

gradient= [-1.75439720e-05 -7.34669434e-06 2.48906663e-05] w = [-0.03467583 0.81593144 2.21874439] w\_new= [-0.03467601 0.81593136 2.21874464]

gradient= [-1.75195826e-05 -7.33711365e-06 2.48566963e-05] w = [-0.03467601 0.81593136 2.21874464] w\_new= [-0.03467618 0.81593129 2.21874489]

gradient= [-1.74952272e-05 -7.32754534e-06 2.48227725e-05] w = [-0.03467618 0.81593129 2.21874489] w\_new= [-0.03467636 0.81593122 2.21874514]

gradient= [-1.74709057e-05 -7.31798939e-06 2.47888951e-05] w = [-0.03467636 0.81593122 2.21874514] w\_new= [-0.03467653 0.81593114 2.21874539]

gradient= [-1.74466181e-05 -7.30844580e-06 2.47550639e-05] w = [-0.03467653 0.81593114 2.21874539] w\_new= [-0.0346767 0.81593107 2.21874563]

gradient= [-1.74223644e-05 -7.29891453e-06 2.47212789e-05] w = [-0.0346767 0.81593107 2.21874563] w\_new= [-0.03467688 0.815931 2.21874588]

gradient= [-1.73981444e-05 -7.28939559e-06 2.46875400e-05] w = [-0.03467688 0.815931 2.21874588] w\_new= [-0.03467705 0.81593093 2.21874613]

gradient= [-1.73739582e-05 -7.27988894e-06 2.46538471e-05] w = [-0.03467705 0.81593093 2.21874613] w\_new= [-0.03467723 0.81593085 2.21874637]

gradient= [-1.73498056e-05 -7.27039458e-06 2.46202002e-05] w = [-0.03467723 0.81593085 2.21874637] w\_new= [-0.0346774 0.81593078 2.21874662]

gradient= [-1.73256867e-05 -7.26091250e-06 2.45865992e-05] w = [-0.0346774 0.81593078 2.21874662] w\_new= [-0.03467757 0.81593071 2.21874687]

gradient= [-1.73016014e-05 -7.25144266e-06 2.45530440e-05] w = [-0.03467757 0.81593071 2.21874687] w\_new= [-0.03467775 0.81593063 2.21874711]

gradient= [-1.72775496e-05 -7.24198507e-06 2.45195347e-05] w = [-0.03467775 0.81593063 2.21874711] w\_new= [-0.03467792 0.81593056 2.21874736]

gradient= [-1.72535313e-05 -7.23253970e-06 2.44860710e-05] w = [-0.03467792 0.81593056 2.21874736] w\_new= [-0.03467809 0.81593049 2.2187476 ]

gradient= [-1.72295465e-05 -7.22310654e-06 2.44526531e-05] w = [-0.03467809 0.81593049 2.2187476 ] w\_new= [-0.03467826 0.81593042 2.21874785]

gradient= [-1.72055951e-05 -7.21368557e-06 2.44192807e-05] w = [-0.03467826 0.81593042 2.21874785] w\_new= [-0.03467844 0.81593035 2.21874809]

gradient= [-1.71816771e-05 -7.20427677e-06 2.43859539e-05] w = [-0.03467844 0.81593035 2.21874809] w\_new= [-0.03467861 0.81593027 2.21874833]

gradient= [-1.71577924e-05 -7.19488014e-06 2.43526725e-05] w = [-0.03467861 0.81593027 2.21874833] w\_new= [-0.03467878 0.8159302 2.21874858]

gradient= [-1.71339409e-05 -7.18549565e-06 2.43194366e-05] w = [-0.03467878 0.8159302 2.21874858] w\_new= [-0.03467895 0.81593013 2.21874882]

gradient= [-1.71101227e-05 -7.17612330e-06 2.42862460e-05] w = [-0.03467895 0.81593013 2.21874882] w\_new= [-0.03467912 0.81593006 2.21874906]

gradient= [-1.70863376e-05 -7.16676306e-06 2.42531007e-05] w = [-0.03467912 0.81593006 2.21874906] w\_new= [-0.03467929 0.81592999 2.21874931]

gradient= [-1.70625857e-05 -7.15741491e-06 2.42200006e-05] w = [-0.03467929 0.81592999 2.21874931] w\_new= [-0.03467946 0.81592991 2.21874955]

gradient= [-1.70388669e-05 -7.14807885e-06 2.41869457e-05] w = [-0.03467946 0.81592991 2.21874955] w\_new= [-0.03467963 0.81592984 2.21874979]

gradient= [-1.70151811e-05 -7.13875486e-06 2.41539359e-05] w = [-0.03467963 0.81592984 2.21874979] w\_new= [-0.0346798 0.81592977 2.21875003]

gradient= [-1.69915282e-05 -7.12944292e-06 2.41209712e-05] w = [-0.0346798 0.81592977 2.21875003] w\_new= [-0.03467997 0.8159297 2.21875027]

gradient= [-1.69679084e-05 -7.12014302e-06 2.40880514e-05] w = [-0.03467997 0.8159297 2.21875027] w\_new= [-0.03468014 0.81592963 2.21875051]

gradient= [-1.69443214e-05 -7.11085514e-06 2.40551765e-05] w = [-0.03468014 0.81592963 2.21875051] w\_new= [-0.03468031 0.81592956 2.21875075]

gradient= [-1.69207673e-05 -7.10157927e-06 2.40223465e-05] w = [-0.03468031 0.81592956 2.21875075] w\_new= [-0.03468048 0.81592949 2.21875099]

gradient= [-1.68972460e-05 -7.09231539e-06 2.39895614e-05] w = [-0.03468048 0.81592949 2.21875099] w\_new= [-0.03468065 0.81592942 2.21875123]

gradient= [-1.68737574e-05 -7.08306348e-06 2.39568209e-05] w = [-0.03468065 0.81592942 2.21875123] w\_new= [-0.03468082 0.81592935 2.21875147]

gradient= [-1.68503016e-05 -7.07382354e-06 2.39241251e-05] w = [-0.03468082 0.81592935 2.21875147] w\_new= [-0.03468099 0.81592927 2.21875171]

gradient= [-1.68268784e-05 -7.06459554e-06 2.38914740e-05] w = [-0.03468099 0.81592927 2.21875171] w\_new= [-0.03468116 0.8159292 2.21875195]

gradient= [-1.68034879e-05 -7.05537947e-06 2.38588673e-05] w = [-0.03468116 0.8159292 2.21875195] w\_new= [-0.03468132 0.81592913 2.21875219]

gradient= [-1.67801299e-05 -7.04617531e-06 2.38263052e-05] w = [-0.03468132 0.81592913 2.21875219] w\_new= [-0.03468149 0.81592906 2.21875243]

gradient= [-1.67568045e-05 -7.03698306e-06 2.37937875e-05] w = [-0.03468149 0.81592906 2.21875243] w\_new= [-0.03468166 0.81592899 2.21875267]

gradient= [-1.67335116e-05 -7.02780269e-06 2.37613142e-05] w = [-0.03468166 0.81592899 2.21875267] w\_new= [-0.03468183 0.81592892 2.2187529 ]

gradient= [-1.67102511e-05 -7.01863419e-06 2.37288852e-05] w = [-0.03468183 0.81592892 2.2187529 ] w\_new= [-0.03468199 0.81592885 2.21875314]

gradient= [-1.66870230e-05 -7.00947754e-06 2.36965005e-05] w = [-0.03468199 0.81592885 2.21875314] w\_new= [-0.03468216 0.81592878 2.21875338]

gradient= [-1.66638272e-05 -7.00033273e-06 2.36641599e-05] w = [-0.03468216 0.81592878 2.21875338] w\_new= [-0.03468233 0.81592871 2.21875362]

gradient= [-1.66406638e-05 -6.99119975e-06 2.36318635e-05] w = [-0.03468233 0.81592871 2.21875362] w\_new= [-0.03468249 0.81592864 2.21875385]

gradient= [-1.66175326e-05 -6.98207857e-06 2.35996112e-05] w = [-0.03468249 0.81592864 2.21875385] w\_new= [-0.03468266 0.81592857 2.21875409]

gradient= [-1.65944336e-05 -6.97296919e-06 2.35674028e-05] w = [-0.03468266 0.81592857 2.21875409] w\_new= [-0.03468283 0.8159285 2.21875432]

gradient= [-1.65713668e-05 -6.96387158e-06 2.35352384e-05] w = [-0.03468283 0.8159285 2.21875432] w\_new= [-0.03468299 0.81592843 2.21875456]

gradient= [-1.65483322e-05 -6.95478574e-06 2.35031179e-05] w = [-0.03468299 0.81592843 2.21875456] w\_new= [-0.03468316 0.81592836 2.21875479]

gradient= [-1.65253296e-05 -6.94571165e-06 2.34710412e-05] w = [-0.03468316 0.81592836 2.21875479] w\_new= [-0.03468332 0.81592829 2.21875503]

gradient= [-1.65023591e-05 -6.93664929e-06 2.34390083e-05] w = [-0.03468332 0.81592829 2.21875503] w\_new= [-0.03468349 0.81592822 2.21875526]

gradient= [-1.64794205e-05 -6.92759865e-06 2.34070191e-05] w = [-0.03468349 0.81592822 2.21875526] w\_new= [-0.03468365 0.81592816 2.2187555 ]

gradient= [-1.64565139e-05 -6.91855971e-06 2.33750736e-05] w = [-0.03468365 0.81592816 2.2187555 ] w\_new= [-0.03468382 0.81592809 2.21875573]

gradient= [-1.64336392e-05 -6.90953246e-06 2.33431717e-05] w = [-0.03468382 0.81592809 2.21875573] w\_new= [-0.03468398 0.81592802 2.21875596]

gradient= [-1.64107964e-05 -6.90051688e-06 2.33113132e-05] w = [-0.03468398 0.81592802 2.21875596] w\_new= [-0.03468415 0.81592795 2.2187562 ]

gradient= [-1.63879853e-05 -6.89151297e-06 2.32794983e-05] w = [-0.03468415 0.81592795 2.2187562 ] w\_new= [-0.03468431 0.81592788 2.21875643]

gradient= [-1.63652061e-05 -6.88252069e-06 2.32477268e-05] w = [-0.03468431 0.81592788 2.21875643] w\_new= [-0.03468447 0.81592781 2.21875666]

gradient= [-1.63424585e-05 -6.87354005e-06 2.32159986e-05] w = [-0.03468447 0.81592781 2.21875666] w\_new= [-0.03468464 0.81592774 2.2187569 ]

gradient= [-1.63197427e-05 -6.86457102e-06 2.31843137e-05] w = [-0.03468464 0.81592774 2.2187569 ] w\_new= [-0.0346848 0.81592767 2.21875713]

gradient= [-1.62970585e-05 -6.85561358e-06 2.31526721e-05] w = [-0.0346848 0.81592767 2.21875713] w\_new= [-0.03468496 0.8159276 2.21875736]

gradient= [-1.62744059e-05 -6.84666774e-06 2.31210736e-05] w = [-0.03468496 0.8159276 2.21875736] w\_new= [-0.03468513 0.81592754 2.21875759]

gradient= [-1.62517848e-05 -6.83773346e-06 2.30895183e-05] w = [-0.03468513 0.81592754 2.21875759] w\_new= [-0.03468529 0.81592747 2.21875782]

gradient= [-1.62291952e-05 -6.82881073e-06 2.30580060e-05] w = [-0.03468529 0.81592747 2.21875782] w\_new= [-0.03468545 0.8159274 2.21875805]

gradient= [-1.62066371e-05 -6.81989955e-06 2.30265367e-05] w = [-0.03468545 0.8159274 2.21875805] w\_new= [-0.03468561 0.81592733 2.21875828]

gradient= [-1.61841104e-05 -6.81099989e-06 2.29951103e-05] w = [-0.03468561 0.81592733 2.21875828] w\_new= [-0.03468577 0.81592726 2.21875851]

gradient= [-1.61616151e-05 -6.80211174e-06 2.29637269e-05] w = [-0.03468577 0.81592726 2.21875851] w\_new= [-0.03468594 0.81592719 2.21875874]

gradient= [-1.61391511e-05 -6.79323508e-06 2.29323862e-05] w = [-0.03468594 0.81592719 2.21875874] w\_new= [-0.0346861 0.81592713 2.21875897]

gradient= [-1.61167184e-05 -6.78436991e-06 2.29010883e-05] w = [-0.0346861 0.81592713 2.21875897] w\_new= [-0.03468626 0.81592706 2.2187592 ]

gradient= [-1.60943170e-05 -6.77551620e-06 2.28698332e-05] w = [-0.03468626 0.81592706 2.2187592 ] w\_new= [-0.03468642 0.81592699 2.21875943]

gradient= [-1.60719467e-05 -6.76667395e-06 2.28386207e-05] w = [-0.03468642 0.81592699 2.21875943] w\_new= [-0.03468658 0.81592692 2.21875966]

gradient= [-1.60496076e-05 -6.75784313e-06 2.28074507e-05] w = [-0.03468658 0.81592692 2.21875966] w\_new= [-0.03468674 0.81592686 2.21875988]

gradient= [-1.60272996e-05 -6.74902373e-06 2.27763234e-05] w = [-0.03468674 0.81592686 2.21875988] w\_new= [-0.0346869 0.81592679 2.21876011]

gradient= [-1.60050227e-05 -6.74021575e-06 2.27452384e-05] w = [-0.0346869 0.81592679 2.21876011] w\_new= [-0.03468706 0.81592672 2.21876034]

gradient= [-1.59827768e-05 -6.73141915e-06 2.27141959e-05] w = [-0.03468706 0.81592672 2.21876034] w\_new= [-0.03468722 0.81592665 2.21876057]

gradient= [-1.59605619e-05 -6.72263393e-06 2.26831958e-05] w = [-0.03468722 0.81592665 2.21876057] w\_new= [-0.03468738 0.81592659 2.21876079]

gradient= [-1.59383779e-05 -6.71386008e-06 2.26522380e-05] w = [-0.03468738 0.81592659 2.21876079] w\_new= [-0.03468754 0.81592652 2.21876102]

gradient= [-1.59162248e-05 -6.70509758e-06 2.26213224e-05] w = [-0.03468754 0.81592652 2.21876102] w\_new= [-0.0346877 0.81592645 2.21876125]

gradient= [-1.58941026e-05 -6.69634641e-06 2.25904490e-05] w = [-0.0346877 0.81592645 2.21876125] w\_new= [-0.03468786 0.81592639 2.21876147]

gradient= [-1.58720111e-05 -6.68760656e-06 2.25596177e-05] w = [-0.03468786 0.81592639 2.21876147] w\_new= [-0.03468802 0.81592632 2.2187617 ]

gradient= [-1.58499505e-05 -6.67887801e-06 2.25288285e-05] w = [-0.03468802 0.81592632 2.2187617 ] w\_new= [-0.03468817 0.81592625 2.21876192]

gradient= [-1.58279205e-05 -6.67016076e-06 2.24980813e-05] w = [-0.03468817 0.81592625 2.21876192] w\_new= [-0.03468833 0.81592618 2.21876215]

gradient= [-1.58059213e-05 -6.66145479e-06 2.24673761e-05] w = [-0.03468833 0.81592618 2.21876215] w\_new= [-0.03468849 0.81592612 2.21876237]

gradient= [-1.57839527e-05 -6.65276008e-06 2.24367127e-05] w = [-0.03468849 0.81592612 2.21876237] w\_new= [-0.03468865 0.81592605 2.2187626 ]

gradient= [-1.57620146e-05 -6.64407661e-06 2.24060912e-05] w = [-0.03468865 0.81592605 2.2187626 ] w\_new= [-0.03468881 0.81592599 2.21876282]

gradient= [-1.57401071e-05 -6.63540438e-06 2.23755115e-05] w = [-0.03468881 0.81592599 2.21876282] w\_new= [-0.03468896 0.81592592 2.21876305]

gradient= [-1.57182302e-05 -6.62674337e-06 2.23449735e-05] w = [-0.03468896 0.81592592 2.21876305] w\_new= [-0.03468912 0.81592585 2.21876327]

gradient= [-1.56963837e-05 -6.61809356e-06 2.23144772e-05] w = [-0.03468912 0.81592585 2.21876327] w\_new= [-0.03468928 0.81592579 2.21876349]

gradient= [-1.56745676e-05 -6.60945495e-06 2.22840225e-05] w = [-0.03468928 0.81592579 2.21876349] w\_new= [-0.03468943 0.81592572 2.21876371]

gradient= [-1.56527819e-05 -6.60082751e-06 2.22536094e-05] w = [-0.03468943 0.81592572 2.21876371] w\_new= [-0.03468959 0.81592565 2.21876394]

gradient= [-1.56310265e-05 -6.59221123e-06 2.22232378e-05] w = [-0.03468959 0.81592565 2.21876394] w\_new= [-0.03468975 0.81592559 2.21876416]

gradient= [-1.56093015e-05 -6.58360610e-06 2.21929076e-05] w = [-0.03468975 0.81592559 2.21876416] w\_new= [-0.0346899 0.81592552 2.21876438]

gradient= [-1.55876067e-05 -6.57501211e-06 2.21626188e-05] w = [-0.0346899 0.81592552 2.21876438] w\_new= [-0.03469006 0.81592546 2.2187646 ]

gradient= [-1.55659421e-05 -6.56642923e-06 2.21323713e-05] w = [-0.03469006 0.81592546 2.2187646 ] w\_new= [-0.03469022 0.81592539 2.21876482]

gradient= [-1.55443076e-05 -6.55785746e-06 2.21021651e-05] w = [-0.03469022 0.81592539 2.21876482] w\_new= [-0.03469037 0.81592533 2.21876505]

gradient= [-1.55227033e-05 -6.54929678e-06 2.20720001e-05] w = [-0.03469037 0.81592533 2.21876505] w\_new= [-0.03469053 0.81592526 2.21876527]

gradient= [-1.55011291e-05 -6.54074718e-06 2.20418763e-05] w = [-0.03469053 0.81592526 2.21876527] w\_new= [-0.03469068 0.81592519 2.21876549]

gradient= [-1.54795850e-05 -6.53220864e-06 2.20117936e-05] w = [-0.03469068 0.81592519 2.21876549] w\_new= [-0.03469084 0.81592513 2.21876571]

gradient= [-1.54580708e-05 -6.52368114e-06 2.19817519e-05] w = [-0.03469084 0.81592513 2.21876571] w\_new= [-0.03469099 0.81592506 2.21876593]

gradient= [-1.54365866e-05 -6.51516468e-06 2.19517513e-05] w = [-0.03469099 0.81592506 2.21876593] w\_new= [-0.03469114 0.815925 2.21876615]

gradient= [-1.54151323e-05 -6.50665924e-06 2.19217915e-05] w = [-0.03469114 0.815925 2.21876615] w\_new= [-0.0346913 0.81592493 2.21876636]

gradient= [-1.53937079e-05 -6.49816481e-06 2.18918727e-05] w = [-0.0346913 0.81592493 2.21876636] w\_new= [-0.03469145 0.81592487 2.21876658]

gradient= [-1.53723133e-05 -6.48968137e-06 2.18619947e-05] w = [-0.03469145 0.81592487 2.21876658] w\_new= [-0.03469161 0.8159248 2.2187668 ]

gradient= [-1.53509485e-05 -6.48120891e-06 2.18321574e-05] w = [-0.03469161 0.8159248 2.2187668 ] w\_new= [-0.03469176 0.81592474 2.21876702]

gradient= [-1.53296135e-05 -6.47274741e-06 2.18023609e-05] w = [-0.03469176 0.81592474 2.21876702] w\_new= [-0.03469191 0.81592467 2.21876724]

gradient= [-1.53083082e-05 -6.46429686e-06 2.17726050e-05] w = [-0.03469191 0.81592467 2.21876724] w\_new= [-0.03469207 0.81592461 2.21876746]

gradient= [-1.52870325e-05 -6.45585724e-06 2.17428898e-05] w = [-0.03469207 0.81592461 2.21876746] w\_new= [-0.03469222 0.81592455 2.21876767]

gradient= [-1.52657865e-05 -6.44742855e-06 2.17132150e-05] w = [-0.03469222 0.81592455 2.21876767] w\_new= [-0.03469237 0.81592448 2.21876789]

gradient= [-1.52445700e-05 -6.43901077e-06 2.16835808e-05] w = [-0.03469237 0.81592448 2.21876789] w\_new= [-0.03469252 0.81592442 2.21876811]

gradient= [-1.52233831e-05 -6.43060388e-06 2.16539870e-05] w = [-0.03469252 0.81592442 2.21876811] w\_new= [-0.03469268 0.81592435 2.21876832]

gradient= [-1.52022257e-05 -6.42220786e-06 2.16244336e-05] w = [-0.03469268 0.81592435 2.21876832] w\_new= [-0.03469283 0.81592429 2.21876854]

gradient= [-1.51810978e-05 -6.41382272e-06 2.15949205e-05] w = [-0.03469283 0.81592429 2.21876854] w\_new= [-0.03469298 0.81592422 2.21876876]

gradient= [-1.51599993e-05 -6.40544843e-06 2.15654477e-05] w = [-0.03469298 0.81592422 2.21876876] w\_new= [-0.03469313 0.81592416 2.21876897]

gradient= [-1.51389302e-05 -6.39708497e-06 2.15360151e-05] w = [-0.03469313 0.81592416 2.21876897] w\_new= [-0.03469328 0.8159241 2.21876919]

gradient= [-1.51178904e-05 -6.38873234e-06 2.15066227e-05] w = [-0.03469328 0.8159241 2.21876919] w\_new= [-0.03469343 0.81592403 2.2187694 ]

gradient= [-1.50968799e-05 -6.38039052e-06 2.14772704e-05] w = [-0.03469343 0.81592403 2.2187694 ] w\_new= [-0.03469359 0.81592397 2.21876962]

gradient= [-1.50758986e-05 -6.37205949e-06 2.14479581e-05] w = [-0.03469359 0.81592397 2.21876962] w\_new= [-0.03469374 0.8159239 2.21876983]

gradient= [-1.50549466e-05 -6.36373925e-06 2.14186859e-05] w = [-0.03469374 0.8159239 2.21876983] w\_new= [-0.03469389 0.81592384 2.21877005]

gradient= [-1.50340238e-05 -6.35542978e-06 2.13894535e-05] w = [-0.03469389 0.81592384 2.21877005] w\_new= [-0.03469404 0.81592378 2.21877026]

gradient= [-1.50131300e-05 -6.34713106e-06 2.13602611e-05] w = [-0.03469404 0.81592378 2.21877026] w\_new= [-0.03469419 0.81592371 2.21877047]

gradient= [-1.49922654e-05 -6.33884309e-06 2.13311085e-05] w = [-0.03469419 0.81592371 2.21877047] w\_new= [-0.03469434 0.81592365 2.21877069]

gradient= [-1.49714299e-05 -6.33056584e-06 2.13019957e-05] w = [-0.03469434 0.81592365 2.21877069] w\_new= [-0.03469449 0.81592359 2.2187709 ]

gradient= [-1.49506233e-05 -6.32229930e-06 2.12729226e-05] w = [-0.03469449 0.81592359 2.2187709 ] w\_new= [-0.03469464 0.81592352 2.21877111]

gradient= [-1.49298457e-05 -6.31404347e-06 2.12438892e-05] w = [-0.03469464 0.81592352 2.21877111] w\_new= [-0.03469479 0.81592346 2.21877133]

gradient= [-1.49090971e-05 -6.30579832e-06 2.12148954e-05] w = [-0.03469479 0.81592346 2.21877133] w\_new= [-0.03469494 0.8159234 2.21877154]

gradient= [-1.48883773e-05 -6.29756385e-06 2.11859412e-05] w = [-0.03469494 0.8159234 2.21877154] w\_new= [-0.03469508 0.81592333 2.21877175]

gradient= [-1.48676864e-05 -6.28934003e-06 2.11570264e-05] w = [-0.03469508 0.81592333 2.21877175] w\_new= [-0.03469523 0.81592327 2.21877196]

gradient= [-1.48470243e-05 -6.28112686e-06 2.11281512e-05] w = [-0.03469523 0.81592327 2.21877196] w\_new= [-0.03469538 0.81592321 2.21877217]

gradient= [-1.48263910e-05 -6.27292432e-06 2.10993153e-05] w = [-0.03469538 0.81592321 2.21877217] w\_new= [-0.03469553 0.81592315 2.21877238]

gradient= [-1.48057864e-05 -6.26473240e-06 2.10705188e-05] w = [-0.03469553 0.81592315 2.21877238] w\_new= [-0.03469568 0.81592308 2.21877259]

gradient= [-1.47852105e-05 -6.25655109e-06 2.10417616e-05] w = [-0.03469568 0.81592308 2.21877259] w\_new= [-0.03469583 0.81592302 2.2187728 ]

gradient= [-1.47646632e-05 -6.24838036e-06 2.10130436e-05] w = [-0.03469583 0.81592302 2.2187728 ] w\_new= [-0.03469597 0.81592296 2.21877301]

gradient= [-1.47441446e-05 -6.24022021e-06 2.09843648e-05] w = [-0.03469597 0.81592296 2.21877301] w\_new= [-0.03469612 0.8159229 2.21877322]

gradient= [-1.47236545e-05 -6.23207063e-06 2.09557252e-05] w = [-0.03469612 0.8159229 2.21877322] w\_new= [-0.03469627 0.81592283 2.21877343]

gradient= [-1.47031930e-05 -6.22393160e-06 2.09271246e-05] w = [-0.03469627 0.81592283 2.21877343] w\_new= [-0.03469641 0.81592277 2.21877364]

gradient= [-1.46827599e-05 -6.21580310e-06 2.08985630e-05] w = [-0.03469641 0.81592277 2.21877364] w\_new= [-0.03469656 0.81592271 2.21877385]

gradient= [-1.46623553e-05 -6.20768513e-06 2.08700405e-05] w = [-0.03469656 0.81592271 2.21877385] w\_new= [-0.03469671 0.81592265 2.21877406]

gradient= [-1.46419791e-05 -6.19957767e-06 2.08415568e-05] w = [-0.03469671 0.81592265 2.21877406] w\_new= [-0.03469685 0.81592259 2.21877427]

gradient= [-1.46216313e-05 -6.19148070e-06 2.08131120e-05] w = [-0.03469685 0.81592259 2.21877427] w\_new= [-0.034697 0.81592252 2.21877448]

gradient= [-1.46013118e-05 -6.18339422e-06 2.07847061e-05] w = [-0.034697 0.81592252 2.21877448] w\_new= [-0.03469715 0.81592246 2.21877469]

gradient= [-1.45810206e-05 -6.17531820e-06 2.07563389e-05] w = [-0.03469715 0.81592246 2.21877469] w\_new= [-0.03469729 0.8159224 2.21877489]

gradient= [-1.45607577e-05 -6.16725265e-06 2.07280104e-05] w = [-0.03469729 0.8159224 2.21877489] w\_new= [-0.03469744 0.81592234 2.2187751 ]

gradient= [-1.45405230e-05 -6.15919753e-06 2.06997205e-05] w = [-0.03469744 0.81592234 2.2187751 ] w\_new= [-0.03469758 0.81592228 2.21877531]

gradient= [-1.45203164e-05 -6.15115285e-06 2.06714693e-05] w = [-0.03469758 0.81592228 2.21877531] w\_new= [-0.03469773 0.81592222 2.21877551]

gradient= [-1.45001380e-05 -6.14311858e-06 2.06432566e-05] w = [-0.03469773 0.81592222 2.21877551] w\_new= [-0.03469787 0.81592215 2.21877572]

gradient= [-1.44799877e-05 -6.13509471e-06 2.06150824e-05] w = [-0.03469787 0.81592215 2.21877572] w\_new= [-0.03469802 0.81592209 2.21877593]

gradient= [-1.44598654e-05 -6.12708124e-06 2.05869467e-05] w = [-0.03469802 0.81592209 2.21877593] w\_new= [-0.03469816 0.81592203 2.21877613]

gradient= [-1.44397712e-05 -6.11907813e-06 2.05588493e-05] w = [-0.03469816 0.81592203 2.21877613] w\_new= [-0.03469831 0.81592197 2.21877634]

gradient= [-1.44197049e-05 -6.11108540e-06 2.05307903e-05] w = [-0.03469831 0.81592197 2.21877634] w\_new= [-0.03469845 0.81592191 2.21877654]

gradient= [-1.43996666e-05 -6.10310301e-06 2.05027696e-05] w = [-0.03469845 0.81592191 2.21877654] w\_new= [-0.0346986 0.81592185 2.21877675]

gradient= [-1.43796562e-05 -6.09513096e-06 2.04747871e-05] w = [-0.0346986 0.81592185 2.21877675] w\_new= [-0.03469874 0.81592179 2.21877695]

gradient= [-1.43596736e-05 -6.08716923e-06 2.04468428e-05] w = [-0.03469874 0.81592179 2.21877695] w\_new= [-0.03469888 0.81592173 2.21877716]

gradient= [-1.43397189e-05 -6.07921781e-06 2.04189367e-05] w = [-0.03469888 0.81592173 2.21877716] w\_new= [-0.03469903 0.81592167 2.21877736]

gradient= [-1.43197919e-05 -6.07127669e-06 2.03910686e-05] w = [-0.03469903 0.81592167 2.21877736] w\_new= [-0.03469917 0.8159216 2.21877757]

gradient= [-1.42998927e-05 -6.06334585e-06 2.03632385e-05] w = [-0.03469917 0.8159216 2.21877757] w\_new= [-0.03469931 0.81592154 2.21877777]

gradient= [-1.42800212e-05 -6.05542528e-06 2.03354465e-05] w = [-0.03469931 0.81592154 2.21877777] w\_new= [-0.03469946 0.81592148 2.21877797]

gradient= [-1.42601773e-05 -6.04751497e-06 2.03076923e-05] w = [-0.03469946 0.81592148 2.21877797] w\_new= [-0.0346996 0.81592142 2.21877818]

gradient= [-1.42403611e-05 -6.03961490e-06 2.02799760e-05] w = [-0.0346996 0.81592142 2.21877818] w\_new= [-0.03469974 0.81592136 2.21877838]

gradient= [-1.42205725e-05 -6.03172506e-06 2.02522976e-05] w = [-0.03469974 0.81592136 2.21877838] w\_new= [-0.03469988 0.8159213 2.21877858]

gradient= [-1.42008114e-05 -6.02384544e-06 2.02246569e-05] w = [-0.03469988 0.8159213 2.21877858] w\_new= [-0.03470002 0.81592124 2.21877878]

gradient= [-1.41810779e-05 -6.01597603e-06 2.01970539e-05] w = [-0.03470002 0.81592124 2.21877878] w\_new= [-0.03470017 0.81592118 2.21877898]

gradient= [-1.41613718e-05 -6.00811681e-06 2.01694886e-05] w = [-0.03470017 0.81592118 2.21877898] w\_new= [-0.03470031 0.81592112 2.21877919]

gradient= [-1.41416932e-05 -6.00026776e-06 2.01419609e-05] w = [-0.03470031 0.81592112 2.21877919] w\_new= [-0.03470045 0.81592106 2.21877939]

gradient= [-1.41220419e-05 -5.99242889e-06 2.01144708e-05] w = [-0.03470045 0.81592106 2.21877939] w\_new= [-0.03470059 0.815921 2.21877959]

gradient= [-1.41024180e-05 -5.98460016e-06 2.00870182e-05] w = [-0.03470059 0.815921 2.21877959] w\_new= [-0.03470073 0.81592094 2.21877979]

gradient= [-1.40828215e-05 -5.97678157e-06 2.00596030e-05] w = [-0.03470073 0.81592094 2.21877979] w\_new= [-0.03470087 0.81592088 2.21877999]

gradient= [-1.40632522e-05 -5.96897311e-06 2.00322253e-05] w = [-0.03470087 0.81592088 2.21877999] w\_new= [-0.03470101 0.81592082 2.21878019]

gradient= [-1.40437101e-05 -5.96117477e-06 2.00048849e-05] w = [-0.03470101 0.81592082 2.21878019] w\_new= [-0.03470115 0.81592076 2.21878039]

gradient= [-1.40241953e-05 -5.95338652e-06 1.99775818e-05] w = [-0.03470115 0.81592076 2.21878039] w\_new= [-0.03470129 0.8159207 2.21878059]

gradient= [-1.40047077e-05 -5.94560836e-06 1.99503160e-05] w = [-0.03470129 0.8159207 2.21878059] w\_new= [-0.03470143 0.81592064 2.21878079]

gradient= [-1.39852471e-05 -5.93784028e-06 1.99230874e-05] w = [-0.03470143 0.81592064 2.21878079] w\_new= [-0.03470157 0.81592058 2.21878099]

gradient= [-1.39658137e-05 -5.93008226e-06 1.98958960e-05] w = [-0.03470157 0.81592058 2.21878099] w\_new= [-0.03470171 0.81592053 2.21878119]

gradient= [-1.39464073e-05 -5.92233428e-06 1.98687416e-05] w = [-0.03470171 0.81592053 2.21878119] w\_new= [-0.03470185 0.81592047 2.21878139]

gradient= [-1.39270280e-05 -5.91459634e-06 1.98416243e-05] w = [-0.03470185 0.81592047 2.21878139] w\_new= [-0.03470199 0.81592041 2.21878159]

gradient= [-1.39076756e-05 -5.90686843e-06 1.98145440e-05] w = [-0.03470199 0.81592041 2.21878159] w\_new= [-0.03470213 0.81592035 2.21878178]

gradient= [-1.38883502e-05 -5.89915053e-06 1.97875007e-05] w = [-0.03470213 0.81592035 2.21878178] w\_new= [-0.03470227 0.81592029 2.21878198]

gradient= [-1.38690516e-05 -5.89144262e-06 1.97604943e-05] w = [-0.03470227 0.81592029 2.21878198] w\_new= [-0.03470241 0.81592023 2.21878218]

gradient= [-1.38497800e-05 -5.88374470e-06 1.97335247e-05] w = [-0.03470241 0.81592023 2.21878218] w\_new= [-0.03470255 0.81592017 2.21878238]

gradient= [-1.38305352e-05 -5.87605675e-06 1.97065919e-05] w = [-0.03470255 0.81592017 2.21878238] w\_new= [-0.03470269 0.81592011 2.21878257]

gradient= [-1.38113171e-05 -5.86837876e-06 1.96796959e-05] w = [-0.03470269 0.81592011 2.21878257] w\_new= [-0.03470282 0.81592005 2.21878277]

gradient= [-1.37921258e-05 -5.86071071e-06 1.96528366e-05] w = [-0.03470282 0.81592005 2.21878277] w\_new= [-0.03470296 0.81591999 2.21878297]

gradient= [-1.37729613e-05 -5.85305260e-06 1.96260139e-05] w = [-0.03470296 0.81591999 2.21878297] w\_new= [-0.0347031 0.81591994 2.21878316]

gradient= [-1.37538234e-05 -5.84540441e-06 1.95992278e-05] w = [-0.0347031 0.81591994 2.21878316] w\_new= [-0.03470324 0.81591988 2.21878336]

gradient= [-1.37347122e-05 -5.83776613e-06 1.95724783e-05] w = [-0.03470324 0.81591988 2.21878336] w\_new= [-0.03470337 0.81591982 2.21878355]

gradient= [-1.37156275e-05 -5.83013775e-06 1.95457653e-05] w = [-0.03470337 0.81591982 2.21878355] w\_new= [-0.03470351 0.81591976 2.21878375]

gradient= [-1.36965695e-05 -5.82251924e-06 1.95190887e-05] w = [-0.03470351 0.81591976 2.21878375] w\_new= [-0.03470365 0.8159197 2.21878395]

gradient= [-1.36775380e-05 -5.81491061e-06 1.94924486e-05] w = [-0.03470365 0.8159197 2.21878395] w\_new= [-0.03470379 0.81591964 2.21878414]

gradient= [-1.36585329e-05 -5.80731183e-06 1.94658448e-05] w = [-0.03470379 0.81591964 2.21878414] w\_new= [-0.03470392 0.81591959 2.21878434]

gradient= [-1.36395543e-05 -5.79972290e-06 1.94392773e-05] w = [-0.03470392 0.81591959 2.21878434] w\_new= [-0.03470406 0.81591953 2.21878453]

gradient= [-1.36206022e-05 -5.79214380e-06 1.94127460e-05] w = [-0.03470406 0.81591953 2.21878453] w\_new= [-0.03470419 0.81591947 2.21878472]

gradient= [-1.36016764e-05 -5.78457452e-06 1.93862510e-05] w = [-0.03470419 0.81591947 2.21878472] w\_new= [-0.03470433 0.81591941 2.21878492]

gradient= [-1.35827770e-05 -5.77701505e-06 1.93597921e-05] w = [-0.03470433 0.81591941 2.21878492] w\_new= [-0.03470447 0.81591936 2.21878511]

gradient= [-1.35639039e-05 -5.76946537e-06 1.93333693e-05] w = [-0.03470447 0.81591936 2.21878511] w\_new= [-0.0347046 0.8159193 2.2187853]

gradient= [-1.35450571e-05 -5.76192548e-06 1.93069826e-05] w = [-0.0347046 0.8159193 2.2187853] w\_new= [-0.03470474 0.81591924 2.2187855 ]

gradient= [-1.35262365e-05 -5.75439535e-06 1.92806318e-05] w = [-0.03470474 0.81591924 2.2187855 ] w\_new= [-0.03470487 0.81591918 2.21878569]

gradient= [-1.35074421e-05 -5.74687498e-06 1.92543171e-05] w = [-0.03470487 0.81591918 2.21878569] w\_new= [-0.03470501 0.81591912 2.21878588]

gradient= [-1.34886739e-05 -5.73936435e-06 1.92280382e-05] w = [-0.03470501 0.81591912 2.21878588] w\_new= [-0.03470514 0.81591907 2.21878608]

gradient= [-1.34699318e-05 -5.73186346e-06 1.92017952e-05] w = [-0.03470514 0.81591907 2.21878608] w\_new= [-0.03470528 0.81591901 2.21878627]

gradient= [-1.34512158e-05 -5.72437229e-06 1.91755880e-05] w = [-0.03470528 0.81591901 2.21878627] w\_new= [-0.03470541 0.81591895 2.21878646]

gradient= [-1.34325258e-05 -5.71689082e-06 1.91494166e-05] w = [-0.03470541 0.81591895 2.21878646] w\_new= [-0.03470555 0.8159189 2.21878665]

gradient= [-1.34138619e-05 -5.70941905e-06 1.91232809e-05] w = [-0.03470555 0.8159189 2.21878665] w\_new= [-0.03470568 0.81591884 2.21878684]

gradient= [-1.33952239e-05 -5.70195695e-06 1.90971809e-05] w = [-0.03470568 0.81591884 2.21878684] w\_new= [-0.03470581 0.81591878 2.21878703]

gradient= [-1.33766119e-05 -5.69450453e-06 1.90711164e-05] w = [-0.03470581 0.81591878 2.21878703] w\_new= [-0.03470595 0.81591872 2.21878722]

gradient= [-1.33580258e-05 -5.68706177e-06 1.90450876e-05] w = [-0.03470595 0.81591872 2.21878722] w\_new= [-0.03470608 0.81591867 2.21878741]

gradient= [-1.33394656e-05 -5.67962865e-06 1.90190942e-05] w = [-0.03470608 0.81591867 2.21878741] w\_new= [-0.03470621 0.81591861 2.2187876 ]

gradient= [-1.33209312e-05 -5.67220516e-06 1.89931364e-05] w = [-0.03470621 0.81591861 2.2187876 ] w\_new= [-0.03470635 0.81591855 2.21878779]

gradient= [-1.33024226e-05 -5.66479129e-06 1.89672139e-05] w = [-0.03470635 0.81591855 2.21878779] w\_new= [-0.03470648 0.8159185 2.21878798]

gradient= [-1.32839398e-05 -5.65738704e-06 1.89413269e-05] w = [-0.03470648 0.8159185 2.21878798] w\_new= [-0.03470661 0.81591844 2.21878817]

gradient= [-1.32654827e-05 -5.64999237e-06 1.89154751e-05] w = [-0.03470661 0.81591844 2.21878817] w\_new= [-0.03470675 0.81591838 2.21878836]

gradient= [-1.32470513e-05 -5.64260729e-06 1.88896586e-05] w = [-0.03470675 0.81591838 2.21878836] w\_new= [-0.03470688 0.81591833 2.21878855]

gradient= [-1.32286456e-05 -5.63523178e-06 1.88638774e-05] w = [-0.03470688 0.81591833 2.21878855] w\_new= [-0.03470701 0.81591827 2.21878874]

gradient= [-1.32102655e-05 -5.62786583e-06 1.88381313e-05] w = [-0.03470701 0.81591827 2.21878874] w\_new= [-0.03470714 0.81591822 2.21878893]

gradient= [-1.31919110e-05 -5.62050943e-06 1.88124204e-05] w = [-0.03470714 0.81591822 2.21878893] w\_new= [-0.03470728 0.81591816 2.21878912]

gradient= [-1.31735820e-05 -5.61316256e-06 1.87867446e-05] w = [-0.03470728 0.81591816 2.21878912] w\_new= [-0.03470741 0.8159181 2.2187893 ]

gradient= [-1.31552785e-05 -5.60582521e-06 1.87611038e-05] w = [-0.03470741 0.8159181 2.2187893 ] w\_new= [-0.03470754 0.81591805 2.21878949]

gradient= [-1.31370006e-05 -5.59849737e-06 1.87354979e-05] w = [-0.03470754 0.81591805 2.21878949] w\_new= [-0.03470767 0.81591799 2.21878968]

gradient= [-1.31187480e-05 -5.59117903e-06 1.87099271e-05] w = [-0.03470767 0.81591799 2.21878968] w\_new= [-0.0347078 0.81591794 2.21878987]

gradient= [-1.31005209e-05 -5.58387017e-06 1.86843911e-05] w = [-0.0347078 0.81591794 2.21878987] w\_new= [-0.03470793 0.81591788 2.21879005]

gradient= [-1.30823192e-05 -5.57657079e-06 1.86588899e-05] w = [-0.03470793 0.81591788 2.21879005] w\_new= [-0.03470806 0.81591782 2.21879024]

gradient= [-1.30641427e-05 -5.56928086e-06 1.86334236e-05] w = [-0.03470806 0.81591782 2.21879024] w\_new= [-0.03470819 0.81591777 2.21879043]

gradient= [-1.30459916e-05 -5.56200039e-06 1.86079920e-05] w = [-0.03470819 0.81591777 2.21879043] w\_new= [-0.03470832 0.81591771 2.21879061]

gradient= [-1.30278658e-05 -5.55472935e-06 1.85825951e-05] w = [-0.03470832 0.81591771 2.21879061] w\_new= [-0.03470845 0.81591766 2.2187908 ]

gradient= [-1.30097652e-05 -5.54746774e-06 1.85572329e-05] w = [-0.03470845 0.81591766 2.2187908 ] w\_new= [-0.03470858 0.8159176 2.21879098]

gradient= [-1.29916898e-05 -5.54021554e-06 1.85319053e-05] w = [-0.03470858 0.8159176 2.21879098] w\_new= [-0.03470871 0.81591755 2.21879117]

gradient= [-1.29736395e-05 -5.53297274e-06 1.85066123e-05] w = [-0.03470871 0.81591755 2.21879117] w\_new= [-0.03470884 0.81591749 2.21879135]

gradient= [-1.29556144e-05 -5.52573933e-06 1.84813537e-05] w = [-0.03470884 0.81591749 2.21879135] w\_new= [-0.03470897 0.81591744 2.21879154]

gradient= [-1.29376144e-05 -5.51851530e-06 1.84561297e-05] w = [-0.03470897 0.81591744 2.21879154] w\_new= [-0.0347091 0.81591738 2.21879172]

gradient= [-1.29196394e-05 -5.51130063e-06 1.84309400e-05] w = [-0.0347091 0.81591738 2.21879172] w\_new= [-0.03470923 0.81591732 2.21879191]

gradient= [-1.29016894e-05 -5.50409531e-06 1.84057847e-05] w = [-0.03470923 0.81591732 2.21879191] w\_new= [-0.03470936 0.81591727 2.21879209]

gradient= [-1.28837644e-05 -5.49689933e-06 1.83806638e-05] w = [-0.03470936 0.81591727 2.21879209] w\_new= [-0.03470949 0.81591721 2.21879228]

gradient= [-1.28658644e-05 -5.48971269e-06 1.83555771e-05] w = [-0.03470949 0.81591721 2.21879228] w\_new= [-0.03470962 0.81591716 2.21879246]

gradient= [-1.28479893e-05 -5.48253535e-06 1.83305247e-05] w = [-0.03470962 0.81591716 2.21879246] w\_new= [-0.03470975 0.81591711 2.21879264]

gradient= [-1.28301391e-05 -5.47536733e-06 1.83055064e-05] w = [-0.03470975 0.81591711 2.21879264] w\_new= [-0.03470988 0.81591705 2.21879283]

gradient= [-1.28123137e-05 -5.46820859e-06 1.82805223e-05] w = [-0.03470988 0.81591705 2.21879283] w\_new= [-0.03471 0.815917 2.21879301]

gradient= [-1.27945132e-05 -5.46105913e-06 1.82555723e-05] w = [-0.03471 0.815917 2.21879301] w\_new= [-0.03471013 0.81591694 2.21879319]

gradient= [-1.27767374e-05 -5.45391895e-06 1.82306563e-05] w = [-0.03471013 0.81591694 2.21879319] w\_new= [-0.03471026 0.81591689 2.21879337]

gradient= [-1.27589864e-05 -5.44678802e-06 1.82057744e-05] w = [-0.03471026 0.81591689 2.21879337] w\_new= [-0.03471039 0.81591683 2.21879355]

gradient= [-1.27412600e-05 -5.43966633e-06 1.81809264e-05] w = [-0.03471039 0.81591683 2.21879355] w\_new= [-0.03471051 0.81591678 2.21879374]

gradient= [-1.27235584e-05 -5.43255388e-06 1.81561123e-05] w = [-0.03471051 0.81591678 2.21879374] w\_new= [-0.03471064 0.81591672 2.21879392]

gradient= [-1.27058814e-05 -5.42545065e-06 1.81313320e-05] w = [-0.03471064 0.81591672 2.21879392] w\_new= [-0.03471077 0.81591667 2.2187941 ]

gradient= [-1.26882290e-05 -5.41835663e-06 1.81065856e-05] w = [-0.03471077 0.81591667 2.2187941 ] w\_new= [-0.0347109 0.81591661 2.21879428]

gradient= [-1.26706011e-05 -5.41127181e-06 1.80818729e-05] w = [-0.0347109 0.81591661 2.21879428] w\_new= [-0.03471102 0.81591656 2.21879446]

gradient= [-1.26529978e-05 -5.40419617e-06 1.80571940e-05] w = [-0.03471102 0.81591656 2.21879446] w\_new= [-0.03471115 0.81591651 2.21879464]

gradient= [-1.26354190e-05 -5.39712971e-06 1.80325487e-05] w = [-0.03471115 0.81591651 2.21879464] w\_new= [-0.03471128 0.81591645 2.21879482]

gradient= [-1.26178647e-05 -5.39007241e-06 1.80079371e-05] w = [-0.03471128 0.81591645 2.21879482] w\_new= [-0.0347114 0.8159164 2.218795 ]

gradient= [-1.26003348e-05 -5.38302426e-06 1.79833591e-05] w = [-0.0347114 0.8159164 2.218795 ] w\_new= [-0.03471153 0.81591635 2.21879518]

gradient= [-1.25828293e-05 -5.37598525e-06 1.79588146e-05] w = [-0.03471153 0.81591635 2.21879518] w\_new= [-0.03471165 0.81591629 2.21879536]

gradient= [-1.25653482e-05 -5.36895536e-06 1.79343036e-05] w = [-0.03471165 0.81591629 2.21879536] w\_new= [-0.03471178 0.81591624 2.21879554]

gradient= [-1.25478914e-05 -5.36193459e-06 1.79098260e-05] w = [-0.03471178 0.81591624 2.21879554] w\_new= [-0.0347119 0.81591618 2.21879572]

gradient= [-1.25304589e-05 -5.35492292e-06 1.78853818e-05] w = [-0.0347119 0.81591618 2.21879572] w\_new= [-0.03471203 0.81591613 2.2187959 ]

gradient= [-1.25130507e-05 -5.34792035e-06 1.78609710e-05] w = [-0.03471203 0.81591613 2.2187959 ] w\_new= [-0.03471215 0.81591608 2.21879608]

gradient= [-1.24956667e-05 -5.34092686e-06 1.78365935e-05] w = [-0.03471215 0.81591608 2.21879608] w\_new= [-0.03471228 0.81591602 2.21879626]

gradient= [-1.24783069e-05 -5.33394243e-06 1.78122493e-05] w = [-0.03471228 0.81591602 2.21879626] w\_new= [-0.0347124 0.81591597 2.21879643]

gradient= [-1.24609712e-05 -5.32696706e-06 1.77879383e-05] w = [-0.0347124 0.81591597 2.21879643] w\_new= [-0.03471253 0.81591592 2.21879661]

gradient= [-1.24436597e-05 -5.32000074e-06 1.77636605e-05] w = [-0.03471253 0.81591592 2.21879661] w\_new= [-0.03471265 0.81591586 2.21879679]

gradient= [-1.24263723e-05 -5.31304345e-06 1.77394158e-05] w = [-0.03471265 0.81591586 2.21879679] w\_new= [-0.03471278 0.81591581 2.21879697]

gradient= [-1.24091090e-05 -5.30609518e-06 1.77152042e-05] w = [-0.03471278 0.81591581 2.21879697] w\_new= [-0.0347129 0.81591576 2.21879714]

gradient= [-1.23918697e-05 -5.29915593e-06 1.76910256e-05] w = [-0.0347129 0.81591576 2.21879714] w\_new= [-0.03471303 0.8159157 2.21879732]

gradient= [-1.23746543e-05 -5.29222567e-06 1.76668800e-05] w = [-0.03471303 0.8159157 2.21879732] w\_new= [-0.03471315 0.81591565 2.2187975 ]

gradient= [-1.23574630e-05 -5.28530440e-06 1.76427674e-05] w = [-0.03471315 0.81591565 2.2187975 ] w\_new= [-0.03471327 0.8159156 2.21879767]

gradient= [-1.23402955e-05 -5.27839211e-06 1.76186876e-05] w = [-0.03471327 0.8159156 2.21879767] w\_new= [-0.0347134 0.81591555 2.21879785]

gradient= [-1.23231520e-05 -5.27148878e-06 1.75946408e-05] w = [-0.0347134 0.81591555 2.21879785] w\_new= [-0.03471352 0.81591549 2.21879803]

gradient= [-1.23060323e-05 -5.26459440e-06 1.75706267e-05] w = [-0.03471352 0.81591549 2.21879803] w\_new= [-0.03471364 0.81591544 2.2187982 ]

gradient= [-1.22889365e-05 -5.25770897e-06 1.75466454e-05] w = [-0.03471364 0.81591544 2.2187982 ] w\_new= [-0.03471377 0.81591539 2.21879838]

gradient= [-1.22718644e-05 -5.25083246e-06 1.75226969e-05] w = [-0.03471377 0.81591539 2.21879838] w\_new= [-0.03471389 0.81591534 2.21879855]

gradient= [-1.22548161e-05 -5.24396487e-06 1.74987810e-05] w = [-0.03471389 0.81591534 2.21879855] w\_new= [-0.03471401 0.81591528 2.21879873]

gradient= [-1.22377916e-05 -5.23710619e-06 1.74748978e-05] w = [-0.03471401 0.81591528 2.21879873] w\_new= [-0.03471413 0.81591523 2.2187989 ]

gradient= [-1.22207907e-05 -5.23025641e-06 1.74510471e-05] w = [-0.03471413 0.81591523 2.2187989 ] w\_new= [-0.03471426 0.81591518 2.21879908]

gradient= [-1.22038135e-05 -5.22341551e-06 1.74272290e-05] w = [-0.03471426 0.81591518 2.21879908] w\_new= [-0.03471438 0.81591513 2.21879925]

gradient= [-1.21868599e-05 -5.21658348e-06 1.74034434e-05] w = [-0.03471438 0.81591513 2.21879925] w\_new= [-0.0347145 0.81591507 2.21879943]

gradient= [-1.21699299e-05 -5.20976032e-06 1.73796903e-05] w = [-0.0347145 0.81591507 2.21879943] w\_new= [-0.03471462 0.81591502 2.2187996 ]

gradient= [-1.21530235e-05 -5.20294600e-06 1.73559695e-05] w = [-0.03471462 0.81591502 2.2187996 ] w\_new= [-0.03471474 0.81591497 2.21879977]

gradient= [-1.21361406e-05 -5.19614052e-06 1.73322812e-05] w = [-0.03471474 0.81591497 2.21879977] w\_new= [-0.03471486 0.81591492 2.21879995]

gradient= [-1.21192813e-05 -5.18934387e-06 1.73086251e-05] w = [-0.03471486 0.81591492 2.21879995] w\_new= [-0.03471499 0.81591487 2.21880012]

gradient= [-1.21024453e-05 -5.18255604e-06 1.72850014e-05] w = [-0.03471499 0.81591487 2.21880012] w\_new= [-0.03471511 0.81591481 2.21880029]

gradient= [-1.20856329e-05 -5.17577701e-06 1.72614099e-05] w = [-0.03471511 0.81591481 2.21880029] w\_new= [-0.03471523 0.81591476 2.21880046]

gradient= [-1.20688438e-05 -5.16900678e-06 1.72378505e-05] w = [-0.03471523 0.81591476 2.21880046] w\_new= [-0.03471535 0.81591471 2.21880064]

gradient= [-1.20520780e-05 -5.16224532e-06 1.72143234e-05] w = [-0.03471535 0.81591471 2.21880064] w\_new= [-0.03471547 0.81591466 2.21880081]

gradient= [-1.20353357e-05 -5.15549264e-06 1.71908283e-05] w = [-0.03471547 0.81591466 2.21880081] w\_new= [-0.03471559 0.81591461 2.21880098]

gradient= [-1.20186166e-05 -5.14874872e-06 1.71673653e-05] w = [-0.03471559 0.81591461 2.21880098] w\_new= [-0.03471571 0.81591456 2.21880115]

gradient= [-1.20019208e-05 -5.14201354e-06 1.71439343e-05] w = [-0.03471571 0.81591456 2.21880115] w\_new= [-0.03471583 0.8159145 2.21880132]

gradient= [-1.19852482e-05 -5.13528710e-06 1.71205353e-05] w = [-0.03471583 0.8159145 2.21880132] w\_new= [-0.03471595 0.81591445 2.2188015 ]

gradient= [-1.19685988e-05 -5.12856939e-06 1.70971682e-05] w = [-0.03471595 0.81591445 2.2188015 ] w\_new= [-0.03471607 0.8159144 2.21880167]

gradient= [-1.19519726e-05 -5.12186039e-06 1.70738330e-05] w = [-0.03471607 0.8159144 2.21880167] w\_new= [-0.03471619 0.81591435 2.21880184]

gradient= [-1.19353696e-05 -5.11516010e-06 1.70505297e-05] w = [-0.03471619 0.81591435 2.21880184] w\_new= [-0.03471631 0.8159143 2.21880201]

gradient= [-1.19187896e-05 -5.10846850e-06 1.70272581e-05] w = [-0.03471631 0.8159143 2.21880201] w\_new= [-0.03471643 0.81591425 2.21880218]

gradient= [-1.19022327e-05 -5.10178558e-06 1.70040183e-05] w = [-0.03471643 0.81591425 2.21880218] w\_new= [-0.03471655 0.8159142 2.21880235]

gradient= [-1.18856989e-05 -5.09511133e-06 1.69808102e-05] w = [-0.03471655 0.8159142 2.21880235] w\_new= [-0.03471666 0.81591415 2.21880252]

gradient= [-1.18691881e-05 -5.08844574e-06 1.69576338e-05] w = [-0.03471666 0.81591415 2.21880252] w\_new= [-0.03471678 0.8159141 2.21880269]

gradient= [-1.18527002e-05 -5.08178879e-06 1.69344890e-05] w = [-0.03471678 0.8159141 2.21880269] w\_new= [-0.0347169 0.81591405 2.21880286]

gradient= [-1.18362354e-05 -5.07514049e-06 1.69113758e-05] w = [-0.0347169 0.81591405 2.21880286] w\_new= [-0.03471702 0.81591399 2.21880303]

gradient= [-1.18197934e-05 -5.06850080e-06 1.68882942e-05] w = [-0.03471702 0.81591399 2.21880303] w\_new= [-0.03471714 0.81591394 2.21880319]

gradient= [-1.18033743e-05 -5.06186974e-06 1.68652440e-05] w = [-0.03471714 0.81591394 2.21880319] w\_new= [-0.03471726 0.81591389 2.21880336]

gradient= [-1.17869780e-05 -5.05524727e-06 1.68422253e-05] w = [-0.03471726 0.81591389 2.21880336] w\_new= [-0.03471737 0.81591384 2.21880353]

gradient= [-1.17706046e-05 -5.04863340e-06 1.68192380e-05] w = [-0.03471737 0.81591384 2.21880353] w\_new= [-0.03471749 0.81591379 2.2188037 ]

gradient= [-1.17542540e-05 -5.04202811e-06 1.67962821e-05] w = [-0.03471749 0.81591379 2.2188037 ] w\_new= [-0.03471761 0.81591374 2.21880387]

gradient= [-1.17379261e-05 -5.03543139e-06 1.67733575e-05] w = [-0.03471761 0.81591374 2.21880387] w\_new= [-0.03471773 0.81591369 2.21880404]

gradient= [-1.17216209e-05 -5.02884323e-06 1.67504642e-05] w = [-0.03471773 0.81591369 2.21880404] w\_new= [-0.03471784 0.81591364 2.2188042 ]

gradient= [-1.17053385e-05 -5.02226362e-06 1.67276021e-05] w = [-0.03471784 0.81591364 2.2188042 ] w\_new= [-0.03471796 0.81591359 2.21880437]

gradient= [-1.16890787e-05 -5.01569255e-06 1.67047712e-05] w = [-0.03471796 0.81591359 2.21880437] w\_new= [-0.03471808 0.81591354 2.21880454]

gradient= [-1.16728415e-05 -5.00913000e-06 1.66819715e-05] w = [-0.03471808 0.81591354 2.21880454] w\_new= [-0.03471819 0.81591349 2.2188047 ]

gradient= [-1.16566269e-05 -5.00257596e-06 1.66592029e-05] w = [-0.03471819 0.81591349 2.2188047 ] w\_new= [-0.03471831 0.81591344 2.21880487]

gradient= [-1.16404349e-05 -4.99603044e-06 1.66364653e-05] w = [-0.03471831 0.81591344 2.21880487] w\_new= [-0.03471843 0.81591339 2.21880504]

gradient= [-1.16242654e-05 -4.98949340e-06 1.66137588e-05] w = [-0.03471843 0.81591339 2.21880504] w\_new= [-0.03471854 0.81591334 2.2188052 ]

gradient= [-1.16081185e-05 -4.98296485e-06 1.65910833e-05] w = [-0.03471854 0.81591334 2.2188052 ] w\_new= [-0.03471866 0.81591329 2.21880537]

gradient= [-1.15919940e-05 -4.97644477e-06 1.65684387e-05] w = [-0.03471866 0.81591329 2.21880537] w\_new= [-0.03471878 0.81591324 2.21880553]

gradient= [-1.15758919e-05 -4.96993315e-06 1.65458250e-05] w = [-0.03471878 0.81591324 2.21880553] w\_new= [-0.03471889 0.81591319 2.2188057 ]

gradient= [-1.15598122e-05 -4.96342998e-06 1.65232422e-05] w = [-0.03471889 0.81591319 2.2188057 ] w\_new= [-0.03471901 0.81591314 2.21880587]

gradient= [-1.15437550e-05 -4.95693525e-06 1.65006902e-05] w = [-0.03471901 0.81591314 2.21880587] w\_new= [-0.03471912 0.81591309 2.21880603]

gradient= [-1.15277200e-05 -4.95044895e-06 1.64781690e-05] w = [-0.03471912 0.81591309 2.21880603] w\_new= [-0.03471924 0.81591304 2.2188062 ]

gradient= [-1.15117074e-05 -4.94397106e-06 1.64556785e-05] w = [-0.03471924 0.81591304 2.2188062 ] w\_new= [-0.03471935 0.81591299 2.21880636]

gradient= [-1.14957171e-05 -4.93750159e-06 1.64332187e-05] w = [-0.03471935 0.81591299 2.21880636] w\_new= [-0.03471947 0.81591294 2.21880652]

gradient= [-1.14797490e-05 -4.93104051e-06 1.64107895e-05] w = [-0.03471947 0.81591294 2.21880652] w\_new= [-0.03471958 0.81591289 2.21880669]

gradient= [-1.14638032e-05 -4.92458781e-06 1.63883910e-05] w = [-0.03471958 0.81591289 2.21880669] w\_new= [-0.0347197 0.81591285 2.21880685]

gradient= [-1.14478795e-05 -4.91814349e-06 1.63660230e-05] w = [-0.0347197 0.81591285 2.21880685] w\_new= [-0.03471981 0.8159128 2.21880702]

gradient= [-1.14319780e-05 -4.91170753e-06 1.63436855e-05] w = [-0.03471981 0.8159128 2.21880702] w\_new= [-0.03471993 0.81591275 2.21880718]

gradient= [-1.14160986e-05 -4.90527992e-06 1.63213786e-05] w = [-0.03471993 0.81591275 2.21880718] w\_new= [-0.03472004 0.8159127 2.21880734]

gradient= [-1.14002414e-05 -4.89886066e-06 1.62991020e-05] w = [-0.03472004 0.8159127 2.21880734] w\_new= [-0.03472015 0.81591265 2.21880751]

gradient= [-1.13844062e-05 -4.89244973e-06 1.62768559e-05] w = [-0.03472015 0.81591265 2.21880751] w\_new= [-0.03472027 0.8159126 2.21880767]

gradient= [-1.13685930e-05 -4.88604712e-06 1.62546401e-05] w = [-0.03472027 0.8159126 2.21880767] w\_new= [-0.03472038 0.81591255 2.21880783]

gradient= [-1.13528018e-05 -4.87965281e-06 1.62324546e-05] w = [-0.03472038 0.81591255 2.21880783] w\_new= [-0.0347205 0.8159125 2.21880799]

gradient= [-1.13370326e-05 -4.87326681e-06 1.62102995e-05] w = [-0.0347205 0.8159125 2.21880799] w\_new= [-0.03472061 0.81591245 2.21880816]

gradient= [-1.13212854e-05 -4.86688910e-06 1.61881745e-05] w = [-0.03472061 0.81591245 2.21880816] w\_new= [-0.03472072 0.8159124 2.21880832]

gradient= [-1.13055601e-05 -4.86051966e-06 1.61660797e-05] w = [-0.03472072 0.8159124 2.21880832] w\_new= [-0.03472084 0.81591236 2.21880848]

gradient= [-1.12898566e-05 -4.85415850e-06 1.61440151e-05] w = [-0.03472084 0.81591236 2.21880848] w\_new= [-0.03472095 0.81591231 2.21880864]

gradient= [-1.12741750e-05 -4.84780558e-06 1.61219806e-05] w = [-0.03472095 0.81591231 2.21880864] w\_new= [-0.03472106 0.81591226 2.2188088 ]

gradient= [-1.12585153e-05 -4.84146092e-06 1.60999762e-05] w = [-0.03472106 0.81591226 2.2188088 ] w\_new= [-0.03472117 0.81591221 2.21880896]

gradient= [-1.12428773e-05 -4.83512449e-06 1.60780018e-05] w = [-0.03472117 0.81591221 2.21880896] w\_new= [-0.03472129 0.81591216 2.21880912]

gradient= [-1.12272611e-05 -4.82879629e-06 1.60560574e-05] w = [-0.03472129 0.81591216 2.21880912] w\_new= [-0.0347214 0.81591211 2.21880928]

gradient= [-1.12116666e-05 -4.82247630e-06 1.60341429e-05] w = [-0.0347214 0.81591211 2.21880928] w\_new= [-0.03472151 0.81591207 2.21880944]

gradient= [-1.11960938e-05 -4.81616451e-06 1.60122583e-05] w = [-0.03472151 0.81591207 2.21880944] w\_new= [-0.03472162 0.81591202 2.2188096 ]

gradient= [-1.11805427e-05 -4.80986092e-06 1.59904036e-05] w = [-0.03472162 0.81591202 2.2188096 ] w\_new= [-0.03472173 0.81591197 2.21880976]

gradient= [-1.11650133e-05 -4.80356551e-06 1.59685788e-05] w = [-0.03472173 0.81591197 2.21880976] w\_new= [-0.03472185 0.81591192 2.21880992]

gradient= [-1.11495054e-05 -4.79727827e-06 1.59467837e-05] w = [-0.03472185 0.81591192 2.21880992] w\_new= [-0.03472196 0.81591187 2.21881008]

gradient= [-1.11340191e-05 -4.79099919e-06 1.59250183e-05] w = [-0.03472196 0.81591187 2.21881008] w\_new= [-0.03472207 0.81591183 2.21881024]

gradient= [-1.11185544e-05 -4.78472827e-06 1.59032827e-05] w = [-0.03472207 0.81591183 2.21881024] w\_new= [-0.03472218 0.81591178 2.2188104 ]

gradient= [-1.11031112e-05 -4.77846548e-06 1.58815767e-05] w = [-0.03472218 0.81591178 2.2188104 ] w\_new= [-0.03472229 0.81591173 2.21881056]

gradient= [-1.10876895e-05 -4.77221083e-06 1.58599003e-05] w = [-0.03472229 0.81591173 2.21881056] w\_new= [-0.0347224 0.81591168 2.21881072]

gradient= [-1.10722892e-05 -4.76596430e-06 1.58382535e-05] w = [-0.0347224 0.81591168 2.21881072] w\_new= [-0.03472251 0.81591163 2.21881088]

gradient= [-1.10569104e-05 -4.75972587e-06 1.58166363e-05] w = [-0.03472251 0.81591163 2.21881088] w\_new= [-0.03472262 0.81591159 2.21881104]

gradient= [-1.10415530e-05 -4.75349555e-06 1.57950485e-05] w = [-0.03472262 0.81591159 2.21881104] w\_new= [-0.03472273 0.81591154 2.21881119]

gradient= [-1.10262169e-05 -4.74727331e-06 1.57734902e-05] w = [-0.03472273 0.81591154 2.21881119] w\_new= [-0.03472284 0.81591149 2.21881135]

gradient= [-1.10109022e-05 -4.74105916e-06 1.57519614e-05] w = [-0.03472284 0.81591149 2.21881135] w\_new= [-0.03472295 0.81591144 2.21881151]

gradient= [-1.09956088e-05 -4.73485307e-06 1.57304619e-05] w = [-0.03472295 0.81591144 2.21881151] w\_new= [-0.03472306 0.8159114 2.21881167]

gradient= [-1.09803367e-05 -4.72865503e-06 1.57089917e-05] w = [-0.03472306 0.8159114 2.21881167] w\_new= [-0.03472317 0.81591135 2.21881182]

gradient= [-1.09650858e-05 -4.72246505e-06 1.56875509e-05] w = [-0.03472317 0.81591135 2.21881182] w\_new= [-0.03472328 0.8159113 2.21881198]

gradient= [-1.09498562e-05 -4.71628310e-06 1.56661393e-05] w = [-0.03472328 0.8159113 2.21881198] w\_new= [-0.03472339 0.81591126 2.21881214]

gradient= [-1.09346477e-05 -4.71010918e-06 1.56447569e-05] w = [-0.03472339 0.81591126 2.21881214] w\_new= [-0.0347235 0.81591121 2.21881229]

gradient= [-1.09194604e-05 -4.70394327e-06 1.56234037e-05] w = [-0.0347235 0.81591121 2.21881229] w\_new= [-0.03472361 0.81591116 2.21881245]

gradient= [-1.09042943e-05 -4.69778537e-06 1.56020796e-05] w = [-0.03472361 0.81591116 2.21881245] w\_new= [-0.03472372 0.81591111 2.21881261]

gradient= [-1.08891492e-05 -4.69163547e-06 1.55807847e-05] w = [-0.03472372 0.81591111 2.21881261] w\_new= [-0.03472383 0.81591107 2.21881276]

gradient= [-1.08740252e-05 -4.68549355e-06 1.55595188e-05] w = [-0.03472383 0.81591107 2.21881276] w\_new= [-0.03472394 0.81591102 2.21881292]

gradient= [-1.08589223e-05 -4.67935960e-06 1.55382819e-05] w = [-0.03472394 0.81591102 2.21881292] w\_new= [-0.03472405 0.81591097 2.21881307]

gradient= [-1.08438404e-05 -4.67323363e-06 1.55170740e-05] w = [-0.03472405 0.81591097 2.21881307] w\_new= [-0.03472415 0.81591093 2.21881323]

gradient= [-1.08287794e-05 -4.66711560e-06 1.54958950e-05] w = [-0.03472415 0.81591093 2.21881323] w\_new= [-0.03472426 0.81591088 2.21881338]

gradient= [-1.08137395e-05 -4.66100552e-06 1.54747450e-05] w = [-0.03472426 0.81591088 2.21881338] w\_new= [-0.03472437 0.81591083 2.21881354]

gradient= [-1.07987204e-05 -4.65490337e-06 1.54536238e-05] w = [-0.03472437 0.81591083 2.21881354] w\_new= [-0.03472448 0.81591079 2.21881369]

gradient= [-1.07837223e-05 -4.64880915e-06 1.54325314e-05] w = [-0.03472448 0.81591079 2.21881369] w\_new= [-0.03472459 0.81591074 2.21881385]

gradient= [-1.07687450e-05 -4.64272284e-06 1.54114678e-05] w = [-0.03472459 0.81591074 2.21881385] w\_new= [-0.03472469 0.81591069 2.218814 ]

gradient= [-1.07537886e-05 -4.63664444e-06 1.53904330e-05] w = [-0.03472469 0.81591069 2.218814 ] w\_new= [-0.0347248 0.81591065 2.21881415]

gradient= [-1.07388529e-05 -4.63057393e-06 1.53694269e-05] w = [-0.0347248 0.81591065 2.21881415] w\_new= [-0.03472491 0.8159106 2.21881431]

gradient= [-1.07239381e-05 -4.62451130e-06 1.53484494e-05] w = [-0.03472491 0.8159106 2.21881431] w\_new= [-0.03472502 0.81591056 2.21881446]

gradient= [-1.07090440e-05 -4.61845654e-06 1.53275005e-05] w = [-0.03472502 0.81591056 2.21881446] w\_new= [-0.03472512 0.81591051 2.21881461]

gradient= [-1.06941706e-05 -4.61240965e-06 1.53065803e-05] w = [-0.03472512 0.81591051 2.21881461] w\_new= [-0.03472523 0.81591046 2.21881477]

gradient= [-1.06793180e-05 -4.60637061e-06 1.52856886e-05] w = [-0.03472523 0.81591046 2.21881477] w\_new= [-0.03472534 0.81591042 2.21881492]

gradient= [-1.06644860e-05 -4.60033942e-06 1.52648254e-05] w = [-0.03472534 0.81591042 2.21881492] w\_new= [-0.03472544 0.81591037 2.21881507]

gradient= [-1.06496746e-05 -4.59431605e-06 1.52439906e-05] w = [-0.03472544 0.81591037 2.21881507] w\_new= [-0.03472555 0.81591033 2.21881523]

gradient= [-1.06348838e-05 -4.58830051e-06 1.52231844e-05] w = [-0.03472555 0.81591033 2.21881523] w\_new= [-0.03472566 0.81591028 2.21881538]

gradient= [-1.06201137e-05 -4.58229279e-06 1.52024065e-05] w = [-0.03472566 0.81591028 2.21881538] w\_new= [-0.03472576 0.81591023 2.21881553]

gradient= [-1.06053640e-05 -4.57629286e-06 1.51816569e-05] w = [-0.03472576 0.81591023 2.21881553] w\_new= [-0.03472587 0.81591019 2.21881568]

gradient= [-1.05906349e-05 -4.57030073e-06 1.51609357e-05] w = [-0.03472587 0.81591019 2.21881568] w\_new= [-0.03472598 0.81591014 2.21881583]

gradient= [-1.05759263e-05 -4.56431638e-06 1.51402427e-05] w = [-0.03472598 0.81591014 2.21881583] w\_new= [-0.03472608 0.8159101 2.21881598]

gradient= [-1.05612382e-05 -4.55833980e-06 1.51195780e-05] w = [-0.03472608 0.8159101 2.21881598] w\_new= [-0.03472619 0.81591005 2.21881614]

gradient= [-1.05465705e-05 -4.55237098e-06 1.50989415e-05] w = [-0.03472619 0.81591005 2.21881614] w\_new= [-0.03472629 0.81591001 2.21881629]

gradient= [-1.05319232e-05 -4.54640992e-06 1.50783331e-05] w = [-0.03472629 0.81591001 2.21881629] w\_new= [-0.0347264 0.81590996 2.21881644]

gradient= [-1.05172963e-05 -4.54045660e-06 1.50577529e-05] w = [-0.0347264 0.81590996 2.21881644] w\_new= [-0.0347265 0.81590991 2.21881659]

gradient= [-1.05026897e-05 -4.53451101e-06 1.50372007e-05] w = [-0.0347265 0.81590991 2.21881659] w\_new= [-0.03472661 0.81590987 2.21881674]

gradient= [-1.04881035e-05 -4.52857315e-06 1.50166766e-05] w = [-0.03472661 0.81590987 2.21881674] w\_new= [-0.03472671 0.81590982 2.21881689]

gradient= [-1.04735376e-05 -4.52264299e-06 1.49961805e-05] w = [-0.03472671 0.81590982 2.21881689] w\_new= [-0.03472682 0.81590978 2.21881704]

gradient= [-1.04589919e-05 -4.51672054e-06 1.49757124e-05] w = [-0.03472682 0.81590978 2.21881704] w\_new= [-0.03472692 0.81590973 2.21881719]

gradient= [-1.04444664e-05 -4.51080579e-06 1.49552722e-05] w = [-0.03472692 0.81590973 2.21881719] w\_new= [-0.03472703 0.81590969 2.21881734]

gradient= [-1.04299612e-05 -4.50489871e-06 1.49348599e-05] w = [-0.03472703 0.81590969 2.21881734] w\_new= [-0.03472713 0.81590964 2.21881749]

gradient= [-1.04154762e-05 -4.49899931e-06 1.49144755e-05] w = [-0.03472713 0.81590964 2.21881749] w\_new= [-0.03472723 0.8159096 2.21881764]

gradient= [-1.04010113e-05 -4.49310757e-06 1.48941189e-05] w = [-0.03472723 0.8159096 2.21881764] w\_new= [-0.03472734 0.81590955 2.21881779]

gradient= [-1.03865665e-05 -4.48722349e-06 1.48737900e-05] w = [-0.03472734 0.81590955 2.21881779] w\_new= [-0.03472744 0.81590951 2.21881793]

gradient= [-1.03721419e-05 -4.48134705e-06 1.48534889e-05] w = [-0.03472744 0.81590951 2.21881793] w\_new= [-0.03472755 0.81590946 2.21881808]

gradient= [-1.03577373e-05 -4.47547824e-06 1.48332155e-05] w = [-0.03472755 0.81590946 2.21881808] w\_new= [-0.03472765 0.81590942 2.21881823]

gradient= [-1.03433527e-05 -4.46961706e-06 1.48129698e-05] w = [-0.03472765 0.81590942 2.21881823] w\_new= [-0.03472775 0.81590937 2.21881838]

gradient= [-1.03289882e-05 -4.46376349e-06 1.47927517e-05] w = [-0.03472775 0.81590937 2.21881838] w\_new= [-0.03472786 0.81590933 2.21881853]

gradient= [-1.03146436e-05 -4.45791753e-06 1.47725612e-05] w = [-0.03472786 0.81590933 2.21881853] w\_new= [-0.03472796 0.81590929 2.21881867]

gradient= [-1.03003190e-05 -4.45207916e-06 1.47523982e-05] w = [-0.03472796 0.81590929 2.21881867] w\_new= [-0.03472806 0.81590924 2.21881882]

gradient= [-1.02860144e-05 -4.44624837e-06 1.47322627e-05] w = [-0.03472806 0.81590924 2.21881882] w\_new= [-0.03472817 0.8159092 2.21881897]

gradient= [-1.02717296e-05 -4.44042516e-06 1.47121548e-05] w = [-0.03472817 0.8159092 2.21881897] w\_new= [-0.03472827 0.81590915 2.21881912]

gradient= [-1.02574647e-05 -4.43460952e-06 1.46920742e-05] w = [-0.03472827 0.81590915 2.21881912] w\_new= [-0.03472837 0.81590911 2.21881926]

gradient= [-1.02432197e-05 -4.42880143e-06 1.46720211e-05] w = [-0.03472837 0.81590911 2.21881926] w\_new= [-0.03472847 0.81590906 2.21881941]

gradient= [-1.02289945e-05 -4.42300089e-06 1.46519954e-05] w = [-0.03472847 0.81590906 2.21881941] w\_new= [-0.03472858 0.81590902 2.21881956]

gradient= [-1.02147890e-05 -4.41720788e-06 1.46319969e-05] w = [-0.03472858 0.81590902 2.21881956] w\_new= [-0.03472868 0.81590897 2.2188197 ]

gradient= [-1.02006034e-05 -4.41142240e-06 1.46120258e-05] w = [-0.03472868 0.81590897 2.2188197 ] w\_new= [-0.03472878 0.81590893 2.21881985]

gradient= [-1.01864375e-05 -4.40564444e-06 1.45920819e-05] w = [-0.03472878 0.81590893 2.21881985] w\_new= [-0.03472888 0.81590889 2.21882 ]

gradient= [-1.01722912e-05 -4.39987398e-06 1.45721652e-05] w = [-0.03472888 0.81590889 2.21882 ] w\_new= [-0.03472898 0.81590884 2.21882014]

gradient= [-1.01581647e-05 -4.39411102e-06 1.45522757e-05] w = [-0.03472898 0.81590884 2.21882014] w\_new= [-0.03472909 0.8159088 2.21882029]

gradient= [-1.01440578e-05 -4.38835555e-06 1.45324134e-05] w = [-0.03472909 0.8159088 2.21882029] w\_new= [-0.03472919 0.81590875 2.21882043]

gradient= [-1.01299706e-05 -4.38260756e-06 1.45125781e-05] w = [-0.03472919 0.81590875 2.21882043] w\_new= [-0.03472929 0.81590871 2.21882058]

gradient= [-1.01159029e-05 -4.37686703e-06 1.44927700e-05] w = [-0.03472929 0.81590871 2.21882058] w\_new= [-0.03472939 0.81590867 2.21882072]

gradient= [-1.01018548e-05 -4.37113397e-06 1.44729888e-05] w = [-0.03472939 0.81590867 2.21882072] w\_new= [-0.03472949 0.81590862 2.21882087]

gradient= [-1.00878263e-05 -4.36540835e-06 1.44532347e-05] w = [-0.03472949 0.81590862 2.21882087] w\_new= [-0.03472959 0.81590858 2.21882101]

gradient= [-1.00738173e-05 -4.35969017e-06 1.44335075e-05] w = [-0.03472959 0.81590858 2.21882101] w\_new= [-0.03472969 0.81590854 2.21882116]

gradient= [-1.00598278e-05 -4.35397943e-06 1.44138072e-05] w = [-0.03472969 0.81590854 2.21882116] w\_new= [-0.03472979 0.81590849 2.2188213 ]

gradient= [-1.00458577e-05 -4.34827610e-06 1.43941338e-05] w = [-0.03472979 0.81590849 2.2188213 ] w\_new= [-0.03472989 0.81590845 2.21882144]

gradient= [-1.00319071e-05 -4.34258019e-06 1.43744873e-05] w = [-0.03472989 0.81590845 2.21882144] w\_new= [-0.03472999 0.81590841 2.21882159]

gradient= [-1.00179759e-05 -4.33689167e-06 1.43548675e-05] w = [-0.03472999 0.81590841 2.21882159] w\_new= [-0.03473009 0.81590836 2.21882173]

gradient= [-1.00040640e-05 -4.33121055e-06 1.43352746e-05] w = [-0.03473009 0.81590836 2.21882173] w\_new= [-0.03473019 0.81590832 2.21882187]

gradient= [-9.99017154e-06 -4.32553681e-06 1.43157084e-05] w = [-0.03473019 0.81590832 2.21882187] w\_new= [-0.03473029 0.81590828 2.21882202]

gradient= [-9.97629839e-06 -4.31987045e-06 1.42961688e-05] w = [-0.03473029 0.81590828 2.21882202] w\_new= [-0.03473039 0.81590823 2.21882216]

gradient= [-9.96244454e-06 -4.31421145e-06 1.42766560e-05] w = [-0.03473039 0.81590823 2.21882216] w\_new= [-0.03473049 0.81590819 2.2188223 ]

gradient= [-9.94860996e-06 -4.30855980e-06 1.42571698e-05] w = [-0.03473049 0.81590819 2.2188223 ] w\_new= [-0.03473059 0.81590815 2.21882245]

gradient= [-9.93479463e-06 -4.30291549e-06 1.42377101e-05] w = [-0.03473059 0.81590815 2.21882245] w\_new= [-0.03473069 0.8159081 2.21882259]

gradient= [-9.92099852e-06 -4.29727853e-06 1.42182770e-05] w = [-0.03473069 0.8159081 2.21882259] w\_new= [-0.03473079 0.81590806 2.21882273]

gradient= [-9.90722161e-06 -4.29164888e-06 1.41988705e-05] w = [-0.03473079 0.81590806 2.21882273] w\_new= [-0.03473089 0.81590802 2.21882287]

gradient= [-9.89346386e-06 -4.28602656e-06 1.41794904e-05] w = [-0.03473089 0.81590802 2.21882287] w\_new= [-0.03473099 0.81590797 2.21882301]

gradient= [-9.87972525e-06 -4.28041154e-06 1.41601368e-05] w = [-0.03473099 0.81590797 2.21882301] w\_new= [-0.03473109 0.81590793 2.21882316]

gradient= [-9.86600575e-06 -4.27480382e-06 1.41408096e-05] w = [-0.03473109 0.81590793 2.21882316] w\_new= [-0.03473119 0.81590789 2.2188233 ]

gradient= [-9.85230535e-06 -4.26920338e-06 1.41215087e-05] w = [-0.03473119 0.81590789 2.2188233 ] w\_new= [-0.03473128 0.81590785 2.21882344]

gradient= [-9.83862400e-06 -4.26361023e-06 1.41022342e-05] w = [-0.03473128 0.81590785 2.21882344] w\_new= [-0.03473138 0.8159078 2.21882358]

gradient= [-9.82496169e-06 -4.25802434e-06 1.40829860e-05] w = [-0.03473138 0.8159078 2.21882358] w\_new= [-0.03473148 0.81590776 2.21882372]

gradient= [-9.81131838e-06 -4.25244572e-06 1.40637641e-05] w = [-0.03473148 0.81590776 2.21882372] w\_new= [-0.03473158 0.81590772 2.21882386]

gradient= [-9.79769405e-06 -4.24687434e-06 1.40445684e-05] w = [-0.03473158 0.81590772 2.21882386] w\_new= [-0.03473168 0.81590768 2.218824 ]

gradient= [-9.78408868e-06 -4.24131021e-06 1.40253989e-05] w = [-0.03473168 0.81590768 2.218824 ] w\_new= [-0.03473178 0.81590763 2.21882414]

gradient= [-9.77050224e-06 -4.23575331e-06 1.40062555e-05] w = [-0.03473178 0.81590763 2.21882414] w\_new= [-0.03473187 0.81590759 2.21882428]

gradient= [-9.75693469e-06 -4.23020363e-06 1.39871383e-05] w = [-0.03473187 0.81590759 2.21882428] w\_new= [-0.03473197 0.81590755 2.21882442]

gradient= [-9.74338603e-06 -4.22466116e-06 1.39680472e-05] w = [-0.03473197 0.81590755 2.21882442] w\_new= [-0.03473207 0.81590751 2.21882456]

gradient= [-9.72985621e-06 -4.21912590e-06 1.39489821e-05] w = [-0.03473207 0.81590751 2.21882456] w\_new= [-0.03473217 0.81590746 2.2188247 ]

gradient= [-9.71634521e-06 -4.21359783e-06 1.39299430e-05] w = [-0.03473217 0.81590746 2.2188247 ] w\_new= [-0.03473226 0.81590742 2.21882484]

gradient= [-9.70285301e-06 -4.20807695e-06 1.39109300e-05] w = [-0.03473226 0.81590742 2.21882484] w\_new= [-0.03473236 0.81590738 2.21882498]

gradient= [-9.68937958e-06 -4.20256325e-06 1.38919428e-05] w = [-0.03473236 0.81590738 2.21882498] w\_new= [-0.03473246 0.81590734 2.21882512]

gradient= [-9.67592490e-06 -4.19705671e-06 1.38729816e-05] w = [-0.03473246 0.81590734 2.21882512] w\_new= [-0.03473255 0.8159073 2.21882526]

gradient= [-9.66248893e-06 -4.19155733e-06 1.38540463e-05] w = [-0.03473255 0.8159073 2.21882526] w\_new= [-0.03473265 0.81590725 2.2188254 ]

gradient= [-9.64907165e-06 -4.18606510e-06 1.38351368e-05] w = [-0.03473265 0.81590725 2.2188254 ] w\_new= [-0.03473275 0.81590721 2.21882553]

gradient= [-9.63567304e-06 -4.18058001e-06 1.38162531e-05] w = [-0.03473275 0.81590721 2.21882553] w\_new= [-0.03473284 0.81590717 2.21882567]

gradient= [-9.62229307e-06 -4.17510205e-06 1.37973951e-05] w = [-0.03473284 0.81590717 2.21882567] w\_new= [-0.03473294 0.81590713 2.21882581]

gradient= [-9.60893171e-06 -4.16963121e-06 1.37785629e-05] w = [-0.03473294 0.81590713 2.21882581] w\_new= [-0.03473303 0.81590709 2.21882595]

gradient= [-9.59558895e-06 -4.16416748e-06 1.37597564e-05] w = [-0.03473303 0.81590709 2.21882595] w\_new= [-0.03473313 0.81590705 2.21882609]

gradient= [-9.58226474e-06 -4.15871085e-06 1.37409756e-05] w = [-0.03473313 0.81590705 2.21882609] w\_new= [-0.03473323 0.815907 2.21882622]

gradient= [-9.56895906e-06 -4.15326132e-06 1.37222204e-05] w = [-0.03473323 0.815907 2.21882622] w\_new= [-0.03473332 0.81590696 2.21882636]

gradient= [-9.55567190e-06 -4.14781887e-06 1.37034908e-05] w = [-0.03473332 0.81590696 2.21882636] w\_new= [-0.03473342 0.81590692 2.2188265 ]

gradient= [-9.54240322e-06 -4.14238350e-06 1.36847867e-05] w = [-0.03473342 0.81590692 2.2188265 ] w\_new= [-0.03473351 0.81590688 2.21882663]

gradient= [-9.52915301e-06 -4.13695519e-06 1.36661082e-05] w = [-0.03473351 0.81590688 2.21882663] w\_new= [-0.03473361 0.81590684 2.21882677]

gradient= [-9.51592122e-06 -4.13153395e-06 1.36474552e-05] w = [-0.03473361 0.81590684 2.21882677] w\_new= [-0.0347337 0.8159068 2.21882691]

gradient= [-9.50270784e-06 -4.12611975e-06 1.36288276e-05] w = [-0.0347337 0.8159068 2.21882691] w\_new= [-0.0347338 0.81590676 2.21882704]

gradient= [-9.48951284e-06 -4.12071258e-06 1.36102254e-05] w = [-0.0347338 0.81590676 2.21882704] w\_new= [-0.03473389 0.81590671 2.21882718]

gradient= [-9.47633620e-06 -4.11531245e-06 1.35916487e-05] w = [-0.03473389 0.81590671 2.21882718] w\_new= [-0.03473399 0.81590667 2.21882732]

gradient= [-9.46317789e-06 -4.10991934e-06 1.35730972e-05] w = [-0.03473399 0.81590667 2.21882732] w\_new= [-0.03473408 0.81590663 2.21882745]

gradient= [-9.45003788e-06 -4.10453324e-06 1.35545711e-05] w = [-0.03473408 0.81590663 2.21882745] w\_new= [-0.03473418 0.81590659 2.21882759]

gradient= [-9.43691615e-06 -4.09915415e-06 1.35360703e-05] w = [-0.03473418 0.81590659 2.21882759] w\_new= [-0.03473427 0.81590655 2.21882772]

gradient= [-9.42381267e-06 -4.09378204e-06 1.35175947e-05] w = [-0.03473427 0.81590655 2.21882772] w\_new= [-0.03473437 0.81590651 2.21882786]

gradient= [-9.41072743e-06 -4.08841693e-06 1.34991444e-05] w = [-0.03473437 0.81590651 2.21882786] w\_new= [-0.03473446 0.81590647 2.21882799]

gradient= [-9.39766038e-06 -4.08305879e-06 1.34807192e-05] w = [-0.03473446 0.81590647 2.21882799] w\_new= [-0.03473455 0.81590643 2.21882813]

gradient= [-9.38461152e-06 -4.07770761e-06 1.34623191e-05] w = [-0.03473455 0.81590643 2.21882813] w\_new= [-0.03473465 0.81590639 2.21882826]

gradient= [-9.37158080e-06 -4.07236339e-06 1.34439442e-05] w = [-0.03473465 0.81590639 2.21882826] w\_new= [-0.03473474 0.81590635 2.2188284 ]

gradient= [-9.35856821e-06 -4.06702613e-06 1.34255943e-05] w = [-0.03473474 0.81590635 2.2188284 ] w\_new= [-0.03473484 0.81590631 2.21882853]

gradient= [-9.34557373e-06 -4.06169580e-06 1.34072695e-05] w = [-0.03473484 0.81590631 2.21882853] w\_new= [-0.03473493 0.81590626 2.21882866]

gradient= [-9.33259732e-06 -4.05637240e-06 1.33889697e-05] w = [-0.03473493 0.81590626 2.21882866] w\_new= [-0.03473502 0.81590622 2.2188288 ]

gradient= [-9.31963896e-06 -4.05105593e-06 1.33706949e-05] w = [-0.03473502 0.81590622 2.2188288 ] w\_new= [-0.03473512 0.81590618 2.21882893]

gradient= [-9.30669863e-06 -4.04574637e-06 1.33524450e-05] w = [-0.03473512 0.81590618 2.21882893] w\_new= [-0.03473521 0.81590614 2.21882907]

gradient= [-9.29377629e-06 -4.04044371e-06 1.33342200e-05] w = [-0.03473521 0.81590614 2.21882907] w\_new= [-0.0347353 0.8159061 2.2188292]

gradient= [-9.28087194e-06 -4.03514795e-06 1.33160199e-05] w = [-0.0347353 0.8159061 2.2188292] w\_new= [-0.03473539 0.81590606 2.21882933]

gradient= [-9.26798553e-06 -4.02985907e-06 1.32978446e-05] w = [-0.03473539 0.81590606 2.21882933] w\_new= [-0.03473549 0.81590602 2.21882946]

gradient= [-9.25511705e-06 -4.02457707e-06 1.32796941e-05] w = [-0.03473549 0.81590602 2.21882946] w\_new= [-0.03473558 0.81590598 2.2188296 ]

gradient= [-9.24226647e-06 -4.01930195e-06 1.32615684e-05] w = [-0.03473558 0.81590598 2.2188296 ] w\_new= [-0.03473567 0.81590594 2.21882973]

gradient= [-9.22943377e-06 -4.01403368e-06 1.32434674e-05] w = [-0.03473567 0.81590594 2.21882973] w\_new= [-0.03473576 0.8159059 2.21882986]

gradient= [-9.21661891e-06 -4.00877226e-06 1.32253912e-05] w = [-0.03473576 0.8159059 2.21882986] w\_new= [-0.03473586 0.81590586 2.21882999]

gradient= [-9.20382188e-06 -4.00351768e-06 1.32073396e-05] w = [-0.03473586 0.81590586 2.21882999] w\_new= [-0.03473595 0.81590582 2.21883013]

gradient= [-9.19104266e-06 -3.99826994e-06 1.31893126e-05] w = [-0.03473595 0.81590582 2.21883013] w\_new= [-0.03473604 0.81590578 2.21883026]

gradient= [-9.17828121e-06 -3.99302903e-06 1.31713102e-05] w = [-0.03473604 0.81590578 2.21883026] w\_new= [-0.03473613 0.81590574 2.21883039]

gradient= [-9.16553751e-06 -3.98779492e-06 1.31533324e-05] w = [-0.03473613 0.81590574 2.21883039] w\_new= [-0.03473622 0.8159057 2.21883052]

gradient= [-9.15281154e-06 -3.98256763e-06 1.31353792e-05] w = [-0.03473622 0.8159057 2.21883052] w\_new= [-0.03473632 0.81590566 2.21883065]

gradient= [-9.14010327e-06 -3.97734713e-06 1.31174504e-05] w = [-0.03473632 0.81590566 2.21883065] w\_new= [-0.03473641 0.81590562 2.21883078]

gradient= [-9.12741267e-06 -3.97213343e-06 1.30995461e-05] w = [-0.03473641 0.81590562 2.21883078] w\_new= [-0.0347365 0.81590558 2.21883092]

gradient= [-9.11473973e-06 -3.96692650e-06 1.30816662e-05] w = [-0.0347365 0.81590558 2.21883092] w\_new= [-0.03473659 0.81590554 2.21883105]

gradient= [-9.10208442e-06 -3.96172635e-06 1.30638108e-05] w = [-0.03473659 0.81590554 2.21883105] w\_new= [-0.03473668 0.8159055 2.21883118]

gradient= [-9.08944671e-06 -3.95653296e-06 1.30459797e-05] w = [-0.03473668 0.8159055 2.21883118] w\_new= [-0.03473677 0.81590546 2.21883131]

gradient= [-9.07682658e-06 -3.95134633e-06 1.30281729e-05] w = [-0.03473677 0.81590546 2.21883131] w\_new= [-0.03473686 0.81590542 2.21883144]

gradient= [-9.06422401e-06 -3.94616644e-06 1.30103904e-05] w = [-0.03473686 0.81590542 2.21883144] w\_new= [-0.03473695 0.81590538 2.21883157]

gradient= [-9.05163896e-06 -3.94099328e-06 1.29926322e-05] w = [-0.03473695 0.81590538 2.21883157] w\_new= [-0.03473704 0.81590535 2.2188317 ]

gradient= [-9.03907142e-06 -3.93582686e-06 1.29748983e-05] w = [-0.03473704 0.81590535 2.2188317 ] w\_new= [-0.03473713 0.81590531 2.21883183]

gradient= [-9.02652136e-06 -3.93066716e-06 1.29571885e-05] w = [-0.03473713 0.81590531 2.21883183] w\_new= [-0.03473722 0.81590527 2.21883196]

gradient= [-9.01398876e-06 -3.92551417e-06 1.29395029e-05] w = [-0.03473722 0.81590527 2.21883196] w\_new= [-0.03473731 0.81590523 2.21883209]

gradient= [-9.00147359e-06 -3.92036788e-06 1.29218415e-05] w = [-0.03473731 0.81590523 2.21883209] w\_new= [-0.0347374 0.81590519 2.21883222]

gradient= [-8.98897583e-06 -3.91522828e-06 1.29042041e-05] w = [-0.0347374 0.81590519 2.21883222] w\_new= [-0.03473749 0.81590515 2.21883234]

gradient= [-8.97649545e-06 -3.91009537e-06 1.28865908e-05] w = [-0.03473749 0.81590515 2.21883234] w\_new= [-0.03473758 0.81590511 2.21883247]

gradient= [-8.96403243e-06 -3.90496914e-06 1.28690016e-05] w = [-0.03473758 0.81590511 2.21883247] w\_new= [-0.03473767 0.81590507 2.2188326 ]

gradient= [-8.95158675e-06 -3.89984958e-06 1.28514363e-05] w = [-0.03473767 0.81590507 2.2188326 ] w\_new= [-0.03473776 0.81590503 2.21883273]

gradient= [-8.93915838e-06 -3.89473667e-06 1.28338950e-05] w = [-0.03473776 0.81590503 2.21883273] w\_new= [-0.03473785 0.81590499 2.21883286]

gradient= [-8.92674729e-06 -3.88963042e-06 1.28163777e-05] w = [-0.03473785 0.81590499 2.21883286] w\_new= [-0.03473794 0.81590495 2.21883299]

gradient= [-8.91435347e-06 -3.88453081e-06 1.27988843e-05] w = [-0.03473794 0.81590495 2.21883299] w\_new= [-0.03473803 0.81590491 2.21883312]

gradient= [-8.90197689e-06 -3.87943783e-06 1.27814147e-05] w = [-0.03473803 0.81590491 2.21883312] w\_new= [-0.03473812 0.81590488 2.21883324]

gradient= [-8.88961752e-06 -3.87435148e-06 1.27639690e-05] w = [-0.03473812 0.81590488 2.21883324] w\_new= [-0.03473821 0.81590484 2.21883337]

gradient= [-8.87727535e-06 -3.86927174e-06 1.27465471e-05] w = [-0.03473821 0.81590484 2.21883337] w\_new= [-0.0347383 0.8159048 2.2188335]

gradient= [-8.86495034e-06 -3.86419861e-06 1.27291490e-05] w = [-0.0347383 0.8159048 2.2188335] w\_new= [-0.03473839 0.81590476 2.21883363]

gradient= [-8.85264247e-06 -3.85913209e-06 1.27117746e-05] w = [-0.03473839 0.81590476 2.21883363] w\_new= [-0.03473847 0.81590472 2.21883375]

gradient= [-8.84035173e-06 -3.85407215e-06 1.26944239e-05] w = [-0.03473847 0.81590472 2.21883375] w\_new= [-0.03473856 0.81590468 2.21883388]

gradient= [-8.82807808e-06 -3.84901880e-06 1.26770969e-05] w = [-0.03473856 0.81590468 2.21883388] w\_new= [-0.03473865 0.81590464 2.21883401]

gradient= [-8.81582150e-06 -3.84397202e-06 1.26597935e-05] w = [-0.03473865 0.81590464 2.21883401] w\_new= [-0.03473874 0.81590461 2.21883413]

gradient= [-8.80358196e-06 -3.83893180e-06 1.26425138e-05] w = [-0.03473874 0.81590461 2.21883413] w\_new= [-0.03473883 0.81590457 2.21883426]

gradient= [-8.79135946e-06 -3.83389815e-06 1.26252576e-05] w = [-0.03473883 0.81590457 2.21883426] w\_new= [-0.03473891 0.81590453 2.21883439]

gradient= [-8.77915395e-06 -3.82887104e-06 1.26080250e-05] w = [-0.03473891 0.81590453 2.21883439] w\_new= [-0.034739 0.81590449 2.21883451]

gradient= [-8.76696542e-06 -3.82385048e-06 1.25908159e-05] w = [-0.034739 0.81590449 2.21883451] w\_new= [-0.03473909 0.81590445 2.21883464]

gradient= [-8.75479384e-06 -3.81883644e-06 1.25736303e-05] w = [-0.03473909 0.81590445 2.21883464] w\_new= [-0.03473918 0.81590441 2.21883476]

gradient= [-8.74263919e-06 -3.81382893e-06 1.25564681e-05] w = [-0.03473918 0.81590441 2.21883476] w\_new= [-0.03473927 0.81590438 2.21883489]

gradient= [-8.73050145e-06 -3.80882794e-06 1.25393294e-05] w = [-0.03473927 0.81590438 2.21883489] w\_new= [-0.03473935 0.81590434 2.21883501]

gradient= [-8.71838058e-06 -3.80383345e-06 1.25222140e-05] w = [-0.03473935 0.81590434 2.21883501] w\_new= [-0.03473944 0.8159043 2.21883514]

gradient= [-8.70627658e-06 -3.79884546e-06 1.25051220e-05] w = [-0.03473944 0.8159043 2.21883514] w\_new= [-0.03473953 0.81590426 2.21883526]

gradient= [-8.69418941e-06 -3.79386396e-06 1.24880534e-05] w = [-0.03473953 0.81590426 2.21883526] w\_new= [-0.03473961 0.81590422 2.21883539]

gradient= [-8.68211906e-06 -3.78888894e-06 1.24710080e-05] w = [-0.03473961 0.81590422 2.21883539] w\_new= [-0.0347397 0.81590419 2.21883551]

gradient= [-8.67006549e-06 -3.78392039e-06 1.24539859e-05] w = [-0.0347397 0.81590419 2.21883551] w\_new= [-0.03473979 0.81590415 2.21883564]

gradient= [-8.65802869e-06 -3.77895831e-06 1.24369870e-05] w = [-0.03473979 0.81590415 2.21883564] w\_new= [-0.03473987 0.81590411 2.21883576]

gradient= [-8.64600863e-06 -3.77400269e-06 1.24200113e-05] w = [-0.03473987 0.81590411 2.21883576] w\_new= [-0.03473996 0.81590407 2.21883589]

gradient= [-8.63400528e-06 -3.76905352e-06 1.24030588e-05] w = [-0.03473996 0.81590407 2.21883589] w\_new= [-0.03474005 0.81590404 2.21883601]

gradient= [-8.62201863e-06 -3.76411078e-06 1.23861294e-05] w = [-0.03474005 0.81590404 2.21883601] w\_new= [-0.03474013 0.815904 2.21883614]

gradient= [-8.61004866e-06 -3.75917448e-06 1.23692231e-05] w = [-0.03474013 0.815904 2.21883614] w\_new= [-0.03474022 0.81590396 2.21883626]

gradient= [-8.59809533e-06 -3.75424460e-06 1.23523399e-05] w = [-0.03474022 0.81590396 2.21883626] w\_new= [-0.0347403 0.81590392 2.21883638]

gradient= [-8.58615862e-06 -3.74932114e-06 1.23354798e-05] w = [-0.0347403 0.81590392 2.21883638] w\_new= [-0.03474039 0.81590389 2.21883651]

gradient= [-8.57423852e-06 -3.74440408e-06 1.23186426e-05] w = [-0.03474039 0.81590389 2.21883651] w\_new= [-0.03474048 0.81590385 2.21883663]

gradient= [-8.56233500e-06 -3.73949342e-06 1.23018284e-05] w = [-0.03474048 0.81590385 2.21883663] w\_new= [-0.03474056 0.81590381 2.21883675]

gradient= [-8.55044803e-06 -3.73458915e-06 1.22850372e-05] w = [-0.03474056 0.81590381 2.21883675] w\_new= [-0.03474065 0.81590377 2.21883687]

gradient= [-8.53857759e-06 -3.72969127e-06 1.22682689e-05] w = [-0.03474065 0.81590377 2.21883687] w\_new= [-0.03474073 0.81590374 2.218837 ]

gradient= [-8.52672367e-06 -3.72479975e-06 1.22515234e-05] w = [-0.03474073 0.81590374 2.218837 ] w\_new= [-0.03474082 0.8159037 2.21883712]

gradient= [-8.51488623e-06 -3.71991461e-06 1.22348008e-05] w = [-0.03474082 0.8159037 2.21883712] w\_new= [-0.0347409 0.81590366 2.21883724]

gradient= [-8.50306526e-06 -3.71503582e-06 1.22181011e-05] w = [-0.0347409 0.81590366 2.21883724] w\_new= [-0.03474099 0.81590362 2.21883736]

gradient= [-8.49126072e-06 -3.71016338e-06 1.22014241e-05] w = [-0.03474099 0.81590362 2.21883736] w\_new= [-0.03474107 0.81590359 2.21883749]

gradient= [-8.47947260e-06 -3.70529728e-06 1.21847699e-05] w = [-0.03474107 0.81590359 2.21883749] w\_new= [-0.03474116 0.81590355 2.21883761]

gradient= [-8.46770088e-06 -3.70043752e-06 1.21681384e-05] w = [-0.03474116 0.81590355 2.21883761] w\_new= [-0.03474124 0.81590351 2.21883773]

gradient= [-8.45594553e-06 -3.69558408e-06 1.21515296e-05] w = [-0.03474124 0.81590351 2.21883773] w\_new= [-0.03474133 0.81590348 2.21883785]

gradient= [-8.44420653e-06 -3.69073695e-06 1.21349435e-05] w = [-0.03474133 0.81590348 2.21883785] w\_new= [-0.03474141 0.81590344 2.21883797]

gradient= [-8.43248386e-06 -3.68589614e-06 1.21183800e-05] w = [-0.03474141 0.81590344 2.21883797] w\_new= [-0.0347415 0.8159034 2.21883809]

gradient= [-8.42077749e-06 -3.68106162e-06 1.21018391e-05] w = [-0.0347415 0.8159034 2.21883809] w\_new= [-0.03474158 0.81590337 2.21883822]

gradient= [-8.40908740e-06 -3.67623340e-06 1.20853208e-05] w = [-0.03474158 0.81590337 2.21883822] w\_new= [-0.03474166 0.81590333 2.21883834]

gradient= [-8.39741356e-06 -3.67141146e-06 1.20688250e-05] w = [-0.03474166 0.81590333 2.21883834] w\_new= [-0.03474175 0.81590329 2.21883846]

gradient= [-8.38575597e-06 -3.66659580e-06 1.20523518e-05] w = [-0.03474175 0.81590329 2.21883846] w\_new= [-0.03474183 0.81590326 2.21883858]

gradient= [-8.37411458e-06 -3.66178641e-06 1.20359010e-05] w = [-0.03474183 0.81590326 2.21883858] w\_new= [-0.03474192 0.81590322 2.2188387 ]

gradient= [-8.36248939e-06 -3.65698327e-06 1.20194727e-05] w = [-0.03474192 0.81590322 2.2188387 ] w\_new= [-0.034742 0.81590318 2.21883882]

gradient= [-8.35088037e-06 -3.65218639e-06 1.20030668e-05] w = [-0.034742 0.81590318 2.21883882] w\_new= [-0.03474208 0.81590315 2.21883894]

gradient= [-8.33928749e-06 -3.64739575e-06 1.19866832e-05] w = [-0.03474208 0.81590315 2.21883894] w\_new= [-0.03474217 0.81590311 2.21883906]

gradient= [-8.32771073e-06 -3.64261135e-06 1.19703221e-05] w = [-0.03474217 0.81590311 2.21883906] w\_new= [-0.03474225 0.81590307 2.21883918]

gradient= [-8.31615007e-06 -3.63783317e-06 1.19539832e-05] w = [-0.03474225 0.81590307 2.21883918] w\_new= [-0.03474233 0.81590304 2.2188393 ]

gradient= [-8.30460549e-06 -3.63306122e-06 1.19376667e-05] w = [-0.03474233 0.81590304 2.2188393 ] w\_new= [-0.03474242 0.815903 2.21883942]

gradient= [-8.29307697e-06 -3.62829547e-06 1.19213724e-05] w = [-0.03474242 0.815903 2.21883942] w\_new= [-0.0347425 0.81590296 2.21883954]

gradient= [-8.28156448e-06 -3.62353593e-06 1.19051004e-05] w = [-0.0347425 0.81590296 2.21883954] w\_new= [-0.03474258 0.81590293 2.21883965]

gradient= [-8.27006800e-06 -3.61878259e-06 1.18888506e-05] w = [-0.03474258 0.81590293 2.21883965] w\_new= [-0.03474266 0.81590289 2.21883977]

gradient= [-8.25858751e-06 -3.61403543e-06 1.18726229e-05] w = [-0.03474266 0.81590289 2.21883977] w\_new= [-0.03474275 0.81590286 2.21883989]

gradient= [-8.24712298e-06 -3.60929446e-06 1.18564174e-05] w = [-0.03474275 0.81590286 2.21883989] w\_new= [-0.03474283 0.81590282 2.21884001]

gradient= [-8.23567440e-06 -3.60455965e-06 1.18402341e-05] w = [-0.03474283 0.81590282 2.21884001] w\_new= [-0.03474291 0.81590278 2.21884013]

gradient= [-8.22424174e-06 -3.59983101e-06 1.18240728e-05] w = [-0.03474291 0.81590278 2.21884013] w\_new= [-0.03474299 0.81590275 2.21884025]

gradient= [-8.21282498e-06 -3.59510852e-06 1.18079335e-05] w = [-0.03474299 0.81590275 2.21884025] w\_new= [-0.03474308 0.81590271 2.21884037]

gradient= [-8.20142410e-06 -3.59039218e-06 1.17918163e-05] w = [-0.03474308 0.81590271 2.21884037] w\_new= [-0.03474316 0.81590268 2.21884048]

gradient= [-8.19003907e-06 -3.58568199e-06 1.17757211e-05] w = [-0.03474316 0.81590268 2.21884048] w\_new= [-0.03474324 0.81590264 2.2188406 ]

gradient= [-8.17866988e-06 -3.58097792e-06 1.17596478e-05] w = [-0.03474324 0.81590264 2.2188406 ] w\_new= [-0.03474332 0.8159026 2.21884072]

gradient= [-8.16731650e-06 -3.57627998e-06 1.17435965e-05] w = [-0.03474332 0.8159026 2.21884072] w\_new= [-0.0347434 0.81590257 2.21884084]

gradient= [-8.15597890e-06 -3.57158815e-06 1.17275671e-05] w = [-0.0347434 0.81590257 2.21884084] w\_new= [-0.03474349 0.81590253 2.21884095]

gradient= [-8.14465707e-06 -3.56690243e-06 1.17115595e-05] w = [-0.03474349 0.81590253 2.21884095] w\_new= [-0.03474357 0.8159025 2.21884107]

gradient= [-8.13335099e-06 -3.56222282e-06 1.16955738e-05] w = [-0.03474357 0.8159025 2.21884107] w\_new= [-0.03474365 0.81590246 2.21884119]

gradient= [-8.12206063e-06 -3.55754929e-06 1.16796099e-05] w = [-0.03474365 0.81590246 2.21884119] w\_new= [-0.03474373 0.81590243 2.2188413 ]

gradient= [-8.11078597e-06 -3.55288185e-06 1.16636678e-05] w = [-0.03474373 0.81590243 2.2188413 ] w\_new= [-0.03474381 0.81590239 2.21884142]

gradient= [-8.09952700e-06 -3.54822049e-06 1.16477475e-05] w = [-0.03474381 0.81590239 2.21884142] w\_new= [-0.03474389 0.81590235 2.21884154]

gradient= [-8.08828367e-06 -3.54356520e-06 1.16318489e-05] w = [-0.03474389 0.81590235 2.21884154] w\_new= [-0.03474397 0.81590232 2.21884165]

gradient= [-8.07705599e-06 -3.53891596e-06 1.16159720e-05] w = [-0.03474397 0.81590232 2.21884165] w\_new= [-0.03474405 0.81590228 2.21884177]

gradient= [-8.06584392e-06 -3.53427278e-06 1.16001167e-05] w = [-0.03474405 0.81590228 2.21884177] w\_new= [-0.03474413 0.81590225 2.21884189]

gradient= [-8.05464744e-06 -3.52963565e-06 1.15842831e-05] w = [-0.03474413 0.81590225 2.21884189] w\_new= [-0.03474421 0.81590221 2.218842 ]

gradient= [-8.04346653e-06 -3.52500455e-06 1.15684711e-05] w = [-0.03474421 0.81590221 2.218842 ] w\_new= [-0.03474429 0.81590218 2.21884212]

gradient= [-8.03230117e-06 -3.52037949e-06 1.15526807e-05] w = [-0.03474429 0.81590218 2.21884212] w\_new= [-0.03474437 0.81590214 2.21884223]

gradient= [-8.02115133e-06 -3.51576044e-06 1.15369118e-05] w = [-0.03474437 0.81590214 2.21884223] w\_new= [-0.03474446 0.81590211 2.21884235]

gradient= [-8.01001701e-06 -3.51114741e-06 1.15211644e-05] w = [-0.03474446 0.81590211 2.21884235] w\_new= [-0.03474454 0.81590207 2.21884246]

gradient= [-7.99889816e-06 -3.50654039e-06 1.15054386e-05] w = [-0.03474454 0.81590207 2.21884246] w\_new= [-0.03474462 0.81590204 2.21884258]

gradient= [-7.98779478e-06 -3.50193937e-06 1.14897341e-05] w = [-0.03474462 0.81590204 2.21884258] w\_new= [-0.0347447 0.815902 2.21884269]

gradient= [-7.97670684e-06 -3.49734434e-06 1.14740512e-05] w = [-0.0347447 0.815902 2.21884269] w\_new= [-0.03474477 0.81590197 2.21884281]

gradient= [-7.96563431e-06 -3.49275529e-06 1.14583896e-05] w = [-0.03474477 0.81590197 2.21884281] w\_new= [-0.03474485 0.81590193 2.21884292]

gradient= [-7.95457719e-06 -3.48817221e-06 1.14427494e-05] w = [-0.03474485 0.81590193 2.21884292] w\_new= [-0.03474493 0.8159019 2.21884304]

gradient= [-7.94353544e-06 -3.48359511e-06 1.14271305e-05] w = [-0.03474493 0.8159019 2.21884304] w\_new= [-0.03474501 0.81590186 2.21884315]

gradient= [-7.93250905e-06 -3.47902396e-06 1.14115330e-05] w = [-0.03474501 0.81590186 2.21884315] w\_new= [-0.03474509 0.81590183 2.21884327]

gradient= [-7.92149799e-06 -3.47445877e-06 1.13959568e-05] w = [-0.03474509 0.81590183 2.21884327] w\_new= [-0.03474517 0.81590179 2.21884338]

gradient= [-7.91050224e-06 -3.46989952e-06 1.13804018e-05] w = [-0.03474517 0.81590179 2.21884338] w\_new= [-0.03474525 0.81590176 2.21884349]

gradient= [-7.89952178e-06 -3.46534622e-06 1.13648680e-05] w = [-0.03474525 0.81590176 2.21884349] w\_new= [-0.03474533 0.81590172 2.21884361]

gradient= [-7.88855659e-06 -3.46079884e-06 1.13493554e-05] w = [-0.03474533 0.81590172 2.21884361] w\_new= [-0.03474541 0.81590169 2.21884372]

gradient= [-7.87760665e-06 -3.45625738e-06 1.13338640e-05] w = [-0.03474541 0.81590169 2.21884372] w\_new= [-0.03474549 0.81590165 2.21884383]

gradient= [-7.86667194e-06 -3.45172183e-06 1.13183938e-05] w = [-0.03474549 0.81590165 2.21884383] w\_new= [-0.03474557 0.81590162 2.21884395]

gradient= [-7.85575243e-06 -3.44719220e-06 1.13029446e-05] w = [-0.03474557 0.81590162 2.21884395] w\_new= [-0.03474565 0.81590159 2.21884406]

gradient= [-7.84484811e-06 -3.44266846e-06 1.12875166e-05] w = [-0.03474565 0.81590159 2.21884406] w\_new= [-0.03474572 0.81590155 2.21884417]

gradient= [-7.83395895e-06 -3.43815061e-06 1.12721096e-05] w = [-0.03474572 0.81590155 2.21884417] w\_new= [-0.0347458 0.81590152 2.21884429]

gradient= [-7.82308493e-06 -3.43363865e-06 1.12567236e-05] w = [-0.0347458 0.81590152 2.21884429] w\_new= [-0.03474588 0.81590148 2.2188444 ]

gradient= [-7.81222603e-06 -3.42913256e-06 1.12413586e-05] w = [-0.03474588 0.81590148 2.2188444 ] w\_new= [-0.03474596 0.81590145 2.21884451]

gradient= [-7.80138223e-06 -3.42463235e-06 1.12260146e-05] w = [-0.03474596 0.81590145 2.21884451] w\_new= [-0.03474604 0.81590141 2.21884462]

gradient= [-7.79055352e-06 -3.42013799e-06 1.12106915e-05] w = [-0.03474604 0.81590141 2.21884462] w\_new= [-0.03474611 0.81590138 2.21884473]

gradient= [-7.77973986e-06 -3.41564949e-06 1.11953893e-05] w = [-0.03474611 0.81590138 2.21884473] w\_new= [-0.03474619 0.81590135 2.21884485]

gradient= [-7.76894123e-06 -3.41116683e-06 1.11801081e-05] w = [-0.03474619 0.81590135 2.21884485] w\_new= [-0.03474627 0.81590131 2.21884496]

gradient= [-7.75815762e-06 -3.40669001e-06 1.11648476e-05] w = [-0.03474627 0.81590131 2.21884496] w\_new= [-0.03474635 0.81590128 2.21884507]

gradient= [-7.74738901e-06 -3.40221903e-06 1.11496080e-05] w = [-0.03474635 0.81590128 2.21884507] w\_new= [-0.03474642 0.81590124 2.21884518]

gradient= [-7.73663537e-06 -3.39775386e-06 1.11343892e-05] w = [-0.03474642 0.81590124 2.21884518] w\_new= [-0.0347465 0.81590121 2.21884529]

gradient= [-7.72589669e-06 -3.39329452e-06 1.11191912e-05] w = [-0.0347465 0.81590121 2.21884529] w\_new= [-0.03474658 0.81590117 2.2188454 ]

gradient= [-7.71517294e-06 -3.38884098e-06 1.11040139e-05] w = [-0.03474658 0.81590117 2.2188454 ] w\_new= [-0.03474666 0.81590114 2.21884552]

gradient= [-7.70446410e-06 -3.38439324e-06 1.10888573e-05] w = [-0.03474666 0.81590114 2.21884552] w\_new= [-0.03474673 0.81590111 2.21884563]

gradient= [-7.69377015e-06 -3.37995129e-06 1.10737214e-05] w = [-0.03474673 0.81590111 2.21884563] w\_new= [-0.03474681 0.81590107 2.21884574]

gradient= [-7.68309107e-06 -3.37551514e-06 1.10586062e-05] w = [-0.03474681 0.81590107 2.21884574] w\_new= [-0.03474689 0.81590104 2.21884585]

gradient= [-7.67242684e-06 -3.37108476e-06 1.10435116e-05] w = [-0.03474689 0.81590104 2.21884585] w\_new= [-0.03474696 0.81590101 2.21884596]

gradient= [-7.66177744e-06 -3.36666015e-06 1.10284376e-05] w = [-0.03474696 0.81590101 2.21884596] w\_new= [-0.03474704 0.81590097 2.21884607]

gradient= [-7.65114284e-06 -3.36224130e-06 1.10133841e-05] w = [-0.03474704 0.81590097 2.21884607] w\_new= [-0.03474712 0.81590094 2.21884618]

gradient= [-7.64052304e-06 -3.35782821e-06 1.09983512e-05] w = [-0.03474712 0.81590094 2.21884618] w\_new= [-0.03474719 0.81590091 2.21884629]

gradient= [-7.62991800e-06 -3.35342087e-06 1.09833389e-05] w = [-0.03474719 0.81590091 2.21884629] w\_new= [-0.03474727 0.81590087 2.2188464 ]

gradient= [-7.61932771e-06 -3.34901927e-06 1.09683470e-05] w = [-0.03474727 0.81590087 2.2188464 ] w\_new= [-0.03474735 0.81590084 2.21884651]

gradient= [-7.60875214e-06 -3.34462341e-06 1.09533755e-05] w = [-0.03474735 0.81590084 2.21884651] w\_new= [-0.03474742 0.8159008 2.21884662]

gradient= [-7.59819128e-06 -3.34023327e-06 1.09384245e-05] w = [-0.03474742 0.8159008 2.21884662] w\_new= [-0.0347475 0.81590077 2.21884673]

gradient= [-7.58764510e-06 -3.33584885e-06 1.09234939e-05] w = [-0.0347475 0.81590077 2.21884673] w\_new= [-0.03474757 0.81590074 2.21884684]

gradient= [-7.57711359e-06 -3.33147014e-06 1.09085837e-05] w = [-0.03474757 0.81590074 2.21884684] w\_new= [-0.03474765 0.8159007 2.21884695]

gradient= [-7.56659672e-06 -3.32709714e-06 1.08936939e-05] w = [-0.03474765 0.8159007 2.21884695] w\_new= [-0.03474773 0.81590067 2.21884705]

gradient= [-7.55609447e-06 -3.32272983e-06 1.08788243e-05] w = [-0.03474773 0.81590067 2.21884705] w\_new= [-0.0347478 0.81590064 2.21884716]

gradient= [-7.54560683e-06 -3.31836821e-06 1.08639750e-05] w = [-0.0347478 0.81590064 2.21884716] w\_new= [-0.03474788 0.8159006 2.21884727]

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gradient= [-7.52467527e-06 -3.30966202e-06 1.08343373e-05] w = [-0.03474795 0.81590057 2.21884738] w\_new= [-0.03474803 0.81590054 2.21884749]

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gradient= [-7.16764638e-06 -3.16092189e-06 1.03285683e-05] w = [-0.03475052 0.81589944 2.21885109] w\_new= [-0.0347506 0.81589941 2.21885119]

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gradient= [-7.14776512e-06 -3.15262577e-06 1.03003909e-05] w = [-0.03475067 0.81589938 2.21885129] w\_new= [-0.03475074 0.81589934 2.21885139]

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gradient= [-7.11804676e-06 -3.14022209e-06 1.02582689e-05] w = [-0.03475088 0.81589928 2.2188516 ] w\_new= [-0.03475095 0.81589925 2.2188517 ]

gradient= [-7.10816818e-06 -3.13609830e-06 1.02442665e-05] w = [-0.03475095 0.81589925 2.2188517 ] w\_new= [-0.03475102 0.81589922 2.21885181]

gradient= [-7.09830332e-06 -3.13197989e-06 1.02302832e-05] w = [-0.03475102 0.81589922 2.21885181] w\_new= [-0.03475109 0.81589919 2.21885191]

gradient= [-7.08845218e-06 -3.12786685e-06 1.02163190e-05] w = [-0.03475109 0.81589919 2.21885191] w\_new= [-0.03475117 0.81589916 2.21885201]

gradient= [-7.07861474e-06 -3.12375917e-06 1.02023739e-05] w = [-0.03475117 0.81589916 2.21885201] w\_new= [-0.03475124 0.81589912 2.21885211]

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gradient= [-7.05898087e-06 -3.11555987e-06 1.01745407e-05] w = [-0.03475131 0.81589909 2.21885221] w\_new= [-0.03475138 0.81589906 2.21885232]

gradient= [-7.04918440e-06 -3.11146823e-06 1.01606526e-05] w = [-0.03475138 0.81589906 2.21885232] w\_new= [-0.03475145 0.81589903 2.21885242]

gradient= [-7.03940155e-06 -3.10738193e-06 1.01467835e-05] w = [-0.03475145 0.81589903 2.21885242] w\_new= [-0.03475152 0.815899 2.21885252]

gradient= [-7.02963230e-06 -3.10330095e-06 1.01329333e-05] w = [-0.03475152 0.815899 2.21885252] w\_new= [-0.03475159 0.81589897 2.21885262]

gradient= [-7.01987664e-06 -3.09922529e-06 1.01191019e-05] w = [-0.03475159 0.81589897 2.21885262] w\_new= [-0.03475166 0.81589894 2.21885272]

gradient= [-7.01013454e-06 -3.09515495e-06 1.01052895e-05] w = [-0.03475166 0.81589894 2.21885272] w\_new= [-0.03475173 0.81589891 2.21885282]

gradient= [-7.00040598e-06 -3.09108991e-06 1.00914959e-05] w = [-0.03475173 0.81589891 2.21885282] w\_new= [-0.0347518 0.81589888 2.21885292]

gradient= [-6.99069094e-06 -3.08703017e-06 1.00777211e-05] w = [-0.0347518 0.81589888 2.21885292] w\_new= [-0.03475187 0.81589885 2.21885302]

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Initial sample = [[3, 2, 3]]

100%|██████████| 1100/1100 [00:00<00:00, 13532.04it/s]

3

gradient= [-0.19333333 -0.04 0.23333333] w = [1. 1. 1.] w\_new= [0.99806667 0.9996 1.00233333]

gradient= [-0.19301111 -0.03993333 0.23294444] w = [0.99806667 0.9996 1.00233333] w\_new= [0.99613656 0.99920067 1.00466278]

gradient= [-0.19268943 -0.03986678 0.2325562 ] w = [0.99613656 0.99920067 1.00466278] w\_new= [0.99420966 0.998802 1.00698834]

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gradient= [-0.19204766 -0.039734 0.23178166] w = [0.99228598 0.998404 1.00931003] w\_new= [0.9903655 0.99800666 1.01162784]

gradient= [-0.19172758 -0.03966778 0.23139536] w = [0.9903655 0.99800666 1.01162784] w\_new= [0.98844823 0.99760998 1.0139418 ]

gradient= [-0.19140804 -0.03960166 0.2310097 ] w = [0.98844823 0.99760998 1.0139418 ] w\_new= [0.98653415 0.99721396 1.01625189]

gradient= [-0.19108902 -0.03953566 0.23062468] w = [0.98653415 0.99721396 1.01625189] w\_new= [0.98462326 0.9968186 1.01855814]

gradient= [-0.19077054 -0.03946977 0.23024031] w = [0.98462326 0.9968186 1.01855814] w\_new= [0.98271555 0.99642391 1.02086054]

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**Streaming output truncated to the last 5000 lines.**

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gradient= [-0.0018818 -0.00082819 0.00270999] w = [-0.22978932 0.72148942 2.5082999 ] w\_new= [-0.22980814 0.72148113 2.508327 ]

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gradient= [-1.69799650e-04 -9.94598213e-05 2.69259471e-04] w = [-0.2443105 0.71435308 2.52995741] w\_new= [-0.24431219 0.71435209 2.52996011]

gradient= [-1.69603840e-04 -9.93543167e-05 2.68958156e-04] w = [-0.24431219 0.71435209 2.52996011] w\_new= [-0.24431389 0.71435109 2.5299628 ]

gradient= [-1.69408257e-04 -9.92489218e-05 2.68657179e-04] w = [-0.24431389 0.71435109 2.5299628 ] w\_new= [-0.24431558 0.7143501 2.52996548]

gradient= [-1.69212903e-04 -9.91436366e-05 2.68356539e-04] w = [-0.24431558 0.7143501 2.52996548] w\_new= [-0.24431728 0.71434911 2.52996817]

gradient= [-1.69017775e-04 -9.90384608e-05 2.68056236e-04] w = [-0.24431728 0.71434911 2.52996817] w\_new= [-0.24431897 0.71434812 2.52997085]

gradient= [-1.68822875e-04 -9.89333944e-05 2.67756269e-04] w = [-0.24431897 0.71434812 2.52997085] w\_new= [-0.24432065 0.71434713 2.52997352]

gradient= [-1.68628202e-04 -9.88284372e-05 2.67456639e-04] w = [-0.24432065 0.71434713 2.52997352] w\_new= [-0.24432234 0.71434614 2.5299762 ]

gradient= [-1.68433755e-04 -9.87235893e-05 2.67157344e-04] w = [-0.24432234 0.71434614 2.5299762 ] w\_new= [-0.24432402 0.71434515 2.52997887]

gradient= [-1.68239534e-04 -9.86188504e-05 2.66858385e-04] w = [-0.24432402 0.71434515 2.52997887] w\_new= [-0.24432571 0.71434417 2.52998154]

gradient= [-1.68045540e-04 -9.85142204e-05 2.66559760e-04] w = [-0.24432571 0.71434417 2.52998154] w\_new= [-0.24432739 0.71434318 2.5299842 ]

gradient= [-1.67851771e-04 -9.84096993e-05 2.66261470e-04] w = [-0.24432739 0.71434318 2.5299842 ] w\_new= [-0.24432907 0.7143422 2.52998687]

gradient= [-1.67658227e-04 -9.83052869e-05 2.65963514e-04] w = [-0.24432907 0.7143422 2.52998687] w\_new= [-0.24433074 0.71434122 2.52998953]

gradient= [-1.67464909e-04 -9.82009831e-05 2.65665892e-04] w = [-0.24433074 0.71434122 2.52998953] w\_new= [-0.24433242 0.71434023 2.52999218]

gradient= [-1.67271816e-04 -9.80967878e-05 2.65368604e-04] w = [-0.24433242 0.71434023 2.52999218] w\_new= [-0.24433409 0.71433925 2.52999484]

gradient= [-1.67078948e-04 -9.79927010e-05 2.65071649e-04] w = [-0.24433409 0.71433925 2.52999484] w\_new= [-0.24433576 0.71433827 2.52999749]

gradient= [-1.66886304e-04 -9.78887224e-05 2.64775026e-04] w = [-0.24433576 0.71433827 2.52999749] w\_new= [-0.24433743 0.71433729 2.53000014]

gradient= [-1.66693884e-04 -9.77848519e-05 2.64478736e-04] w = [-0.24433743 0.71433729 2.53000014] w\_new= [-0.2443391 0.71433632 2.53000278]

gradient= [-1.66501688e-04 -9.76810896e-05 2.64182778e-04] w = [-0.2443391 0.71433632 2.53000278] w\_new= [-0.24434076 0.71433534 2.53000542]

gradient= [-1.66309716e-04 -9.75774352e-05 2.63887151e-04] w = [-0.24434076 0.71433534 2.53000542] w\_new= [-0.24434242 0.71433436 2.53000806]

gradient= [-1.66117967e-04 -9.74738886e-05 2.63591855e-04] w = [-0.24434242 0.71433436 2.53000806] w\_new= [-0.24434409 0.71433339 2.5300107 ]

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gradient= [-1.65735138e-04 -9.72671187e-05 2.63002257e-04] w = [-0.24434574 0.71433242 2.53001333] w\_new= [-0.2443474 0.71433144 2.53001596]

gradient= [-1.65544057e-04 -9.71638950e-05 2.62707952e-04] w = [-0.2443474 0.71433144 2.53001596] w\_new= [-0.24434906 0.71433047 2.53001859]

gradient= [-1.65353199e-04 -9.70607788e-05 2.62413978e-04] w = [-0.24434906 0.71433047 2.53001859] w\_new= [-0.24435071 0.7143295 2.53002121]

gradient= [-1.65162563e-04 -9.69577698e-05 2.62120333e-04] w = [-0.24435071 0.7143295 2.53002121] w\_new= [-0.24435236 0.71432853 2.53002383]

gradient= [-1.64972149e-04 -9.68548681e-05 2.61827017e-04] w = [-0.24435236 0.71432853 2.53002383] w\_new= [-0.24435401 0.71432756 2.53002645]

gradient= [-1.64781957e-04 -9.67520734e-05 2.61534030e-04] w = [-0.24435401 0.71432756 2.53002645] w\_new= [-0.24435566 0.71432659 2.53002907]

gradient= [-1.64591985e-04 -9.66493857e-05 2.61241371e-04] w = [-0.24435566 0.71432659 2.53002907] w\_new= [-0.24435731 0.71432563 2.53003168]

gradient= [-1.64402235e-04 -9.65468049e-05 2.60949040e-04] w = [-0.24435731 0.71432563 2.53003168] w\_new= [-0.24435895 0.71432466 2.53003429]

gradient= [-1.64212705e-04 -9.64443309e-05 2.60657036e-04] w = [-0.24435895 0.71432466 2.53003429] w\_new= [-0.24436059 0.7143237 2.53003689]

gradient= [-1.64023396e-04 -9.63419635e-05 2.60365359e-04] w = [-0.24436059 0.7143237 2.53003689] w\_new= [-0.24436223 0.71432273 2.5300395 ]

gradient= [-1.63834307e-04 -9.62397026e-05 2.60074010e-04] w = [-0.24436223 0.71432273 2.5300395 ] w\_new= [-0.24436387 0.71432177 2.5300421 ]

gradient= [-1.63645438e-04 -9.61375482e-05 2.59782986e-04] w = [-0.24436387 0.71432177 2.5300421 ] w\_new= [-0.24436551 0.71432081 2.5300447 ]

gradient= [-1.63456789e-04 -9.60355002e-05 2.59492289e-04] w = [-0.24436551 0.71432081 2.5300447 ] w\_new= [-0.24436714 0.71431985 2.53004729]

gradient= [-1.63268359e-04 -9.59335583e-05 2.59201918e-04] w = [-0.24436714 0.71431985 2.53004729] w\_new= [-0.24436877 0.71431889 2.53004988]

gradient= [-1.63080149e-04 -9.58317226e-05 2.58911871e-04] w = [-0.24436877 0.71431889 2.53004988] w\_new= [-0.24437041 0.71431793 2.53005247]

gradient= [-1.62892157e-04 -9.57299928e-05 2.58622150e-04] w = [-0.24437041 0.71431793 2.53005247] w\_new= [-0.24437203 0.71431698 2.53005506]

gradient= [-1.62704384e-04 -9.56283690e-05 2.58332753e-04] w = [-0.24437203 0.71431698 2.53005506] w\_new= [-0.24437366 0.71431602 2.53005764]

gradient= [-1.62516830e-04 -9.55268510e-05 2.58043681e-04] w = [-0.24437366 0.71431602 2.53005764] w\_new= [-0.24437529 0.71431506 2.53006022]

gradient= [-1.62329493e-04 -9.54254386e-05 2.57754932e-04] w = [-0.24437529 0.71431506 2.53006022] w\_new= [-0.24437691 0.71431411 2.5300628 ]

gradient= [-1.62142375e-04 -9.53241319e-05 2.57466507e-04] w = [-0.24437691 0.71431411 2.5300628 ] w\_new= [-0.24437853 0.71431316 2.53006537]

gradient= [-1.61955474e-04 -9.52229306e-05 2.57178405e-04] w = [-0.24437853 0.71431316 2.53006537] w\_new= [-0.24438015 0.7143122 2.53006795]

gradient= [-1.61768791e-04 -9.51218346e-05 2.56890626e-04] w = [-0.24438015 0.7143122 2.53006795] w\_new= [-0.24438177 0.71431125 2.53007052]

gradient= [-1.61582325e-04 -9.50208440e-05 2.56603169e-04] w = [-0.24438177 0.71431125 2.53007052] w\_new= [-0.24438338 0.7143103 2.53007308]

gradient= [-1.61396076e-04 -9.49199584e-05 2.56316034e-04] w = [-0.24438338 0.7143103 2.53007308] w\_new= [-0.244385 0.71430935 2.53007564]

gradient= [-1.61210043e-04 -9.48191780e-05 2.56029221e-04] w = [-0.244385 0.71430935 2.53007564] w\_new= [-0.24438661 0.71430841 2.5300782 ]

gradient= [-1.61024227e-04 -9.47185024e-05 2.55742729e-04] w = [-0.24438661 0.71430841 2.5300782 ] w\_new= [-0.24438822 0.71430746 2.53008076]

gradient= [-1.60838626e-04 -9.46179317e-05 2.55456558e-04] w = [-0.24438822 0.71430746 2.53008076] w\_new= [-0.24438983 0.71430651 2.53008332]

gradient= [-1.60653242e-04 -9.45174658e-05 2.55170708e-04] w = [-0.24438983 0.71430651 2.53008332] w\_new= [-0.24439144 0.71430557 2.53008587]

gradient= [-1.60468074e-04 -9.44171044e-05 2.54885178e-04] w = [-0.24439144 0.71430557 2.53008587] w\_new= [-0.24439304 0.71430462 2.53008842]

gradient= [-1.60283120e-04 -9.43168476e-05 2.54599968e-04] w = [-0.24439304 0.71430462 2.53008842] w\_new= [-0.24439464 0.71430368 2.53009096]

gradient= [-1.60098382e-04 -9.42166951e-05 2.54315077e-04] w = [-0.24439464 0.71430368 2.53009096] w\_new= [-0.24439624 0.71430274 2.53009351]

gradient= [-1.59913859e-04 -9.41166470e-05 2.54030506e-04] w = [-0.24439624 0.71430274 2.53009351] w\_new= [-0.24439784 0.7143018 2.53009605]

gradient= [-1.59729550e-04 -9.40167031e-05 2.53746253e-04] w = [-0.24439784 0.7143018 2.53009605] w\_new= [-0.24439944 0.71430086 2.53009858]

gradient= [-1.59545456e-04 -9.39168633e-05 2.53462319e-04] w = [-0.24439944 0.71430086 2.53009858] w\_new= [-0.24440104 0.71429992 2.53010112]

gradient= [-1.59361575e-04 -9.38171274e-05 2.53178703e-04] w = [-0.24440104 0.71429992 2.53010112] w\_new= [-0.24440263 0.71429898 2.53010365]

gradient= [-1.59177909e-04 -9.37174955e-05 2.52895404e-04] w = [-0.24440263 0.71429898 2.53010365] w\_new= [-0.24440422 0.71429804 2.53010618]

gradient= [-1.58994456e-04 -9.36179673e-05 2.52612423e-04] w = [-0.24440422 0.71429804 2.53010618] w\_new= [-0.24440581 0.71429711 2.53010871]

gradient= [-1.58811217e-04 -9.35185428e-05 2.52329759e-04] w = [-0.24440581 0.71429711 2.53010871] w\_new= [-0.2444074 0.71429617 2.53011123]

gradient= [-1.58628190e-04 -9.34192218e-05 2.52047412e-04] w = [-0.2444074 0.71429617 2.53011123] w\_new= [-0.24440899 0.71429524 2.53011375]

gradient= [-1.58445377e-04 -9.33200043e-05 2.51765381e-04] w = [-0.24440899 0.71429524 2.53011375] w\_new= [-0.24441057 0.7142943 2.53011627]

gradient= [-1.58262776e-04 -9.32208902e-05 2.51483666e-04] w = [-0.24441057 0.7142943 2.53011627] w\_new= [-0.24441215 0.71429337 2.53011878]

gradient= [-1.58080387e-04 -9.31218793e-05 2.51202266e-04] w = [-0.24441215 0.71429337 2.53011878] w\_new= [-0.24441373 0.71429244 2.53012129]

gradient= [-1.57898210e-04 -9.30229716e-05 2.50921182e-04] w = [-0.24441373 0.71429244 2.53012129] w\_new= [-0.24441531 0.71429151 2.5301238 ]

gradient= [-1.57716246e-04 -9.29241669e-05 2.50640413e-04] w = [-0.24441531 0.71429151 2.5301238 ] w\_new= [-0.24441689 0.71429058 2.53012631]

gradient= [-1.57534493e-04 -9.28254651e-05 2.50359958e-04] w = [-0.24441689 0.71429058 2.53012631] w\_new= [-0.24441847 0.71428965 2.53012881]

gradient= [-1.57352951e-04 -9.27268662e-05 2.50079817e-04] w = [-0.24441847 0.71428965 2.53012881] w\_new= [-0.24442004 0.71428872 2.53013131]

gradient= [-1.5717162e-04 -9.2628370e-05 2.4979999e-04] w = [-0.24442004 0.71428872 2.53013131] w\_new= [-0.24442161 0.7142878 2.53013381]

gradient= [-1.56990500e-04 -9.25299765e-05 2.49520477e-04] w = [-0.24442161 0.7142878 2.53013381] w\_new= [-0.24442318 0.71428687 2.53013631]

gradient= [-1.56809591e-04 -9.24316854e-05 2.49241277e-04] w = [-0.24442318 0.71428687 2.53013631] w\_new= [-0.24442475 0.71428595 2.5301388 ]

gradient= [-1.56628892e-04 -9.23334968e-05 2.48962389e-04] w = [-0.24442475 0.71428595 2.5301388 ] w\_new= [-0.24442631 0.71428503 2.53014129]

gradient= [-1.56448404e-04 -9.22354105e-05 2.48683814e-04] w = [-0.24442631 0.71428503 2.53014129] w\_new= [-0.24442788 0.7142841 2.53014378]

gradient= [-1.56268125e-04 -9.21374264e-05 2.48405551e-04] w = [-0.24442788 0.7142841 2.53014378] w\_new= [-0.24442944 0.71428318 2.53014626]

gradient= [-1.56088055e-04 -9.20395444e-05 2.48127600e-04] w = [-0.24442944 0.71428318 2.53014626] w\_new= [-0.244431 0.71428226 2.53014874]

gradient= [-1.55908195e-04 -9.19417644e-05 2.47849960e-04] w = [-0.244431 0.71428226 2.53014874] w\_new= [-0.24443256 0.71428134 2.53015122]

gradient= [-1.55728545e-04 -9.18440863e-05 2.47572631e-04] w = [-0.24443256 0.71428134 2.53015122] w\_new= [-0.24443412 0.71428042 2.5301537 ]

gradient= [-1.55549103e-04 -9.17465100e-05 2.47295613e-04] w = [-0.24443412 0.71428042 2.5301537 ] w\_new= [-0.24443567 0.71427951 2.53015617]

gradient= [-1.55369869e-04 -9.16490354e-05 2.47018905e-04] w = [-0.24443567 0.71427951 2.53015617] w\_new= [-0.24443723 0.71427859 2.53015864]

gradient= [-1.55190844e-04 -9.15516624e-05 2.46742507e-04] w = [-0.24443723 0.71427859 2.53015864] w\_new= [-0.24443878 0.71427767 2.53016111]

gradient= [-1.55012028e-04 -9.14543909e-05 2.46466418e-04] w = [-0.24443878 0.71427767 2.53016111] w\_new= [-0.24444033 0.71427676 2.53016357]

gradient= [-1.54833419e-04 -9.13572207e-05 2.46190639e-04] w = [-0.24444033 0.71427676 2.53016357] w\_new= [-0.24444188 0.71427585 2.53016603]

gradient= [-1.54655017e-04 -9.12601518e-05 2.45915169e-04] w = [-0.24444188 0.71427585 2.53016603] w\_new= [-0.24444343 0.71427493 2.53016849]

gradient= [-1.54476823e-04 -9.11631842e-05 2.45640008e-04] w = [-0.24444343 0.71427493 2.53016849] w\_new= [-0.24444497 0.71427402 2.53017095]

gradient= [-1.54298837e-04 -9.10663176e-05 2.45365154e-04] w = [-0.24444497 0.71427402 2.53017095] w\_new= [-0.24444651 0.71427311 2.5301734 ]

gradient= [-1.54121057e-04 -9.09695519e-05 2.45090609e-04] w = [-0.24444651 0.71427311 2.5301734 ] w\_new= [-0.24444805 0.7142722 2.53017585]

gradient= [-1.53943484e-04 -9.08728872e-05 2.44816371e-04] w = [-0.24444805 0.7142722 2.53017585] w\_new= [-0.24444959 0.71427129 2.5301783 ]

gradient= [-1.53766117e-04 -9.07763232e-05 2.44542440e-04] w = [-0.24444959 0.71427129 2.5301783 ] w\_new= [-0.24445113 0.71427038 2.53018075]

gradient= [-1.53588956e-04 -9.06798598e-05 2.44268816e-04] w = [-0.24445113 0.71427038 2.53018075] w\_new= [-0.24445267 0.71426948 2.53018319]

gradient= [-1.53412002e-04 -9.05834971e-05 2.43995499e-04] w = [-0.24445267 0.71426948 2.53018319] w\_new= [-0.2444542 0.71426857 2.53018563]

gradient= [-1.53235253e-04 -9.04872348e-05 2.43722488e-04] w = [-0.2444542 0.71426857 2.53018563] w\_new= [-0.24445573 0.71426767 2.53018807]

gradient= [-1.53058710e-04 -9.03910728e-05 2.43449782e-04] w = [-0.24445573 0.71426767 2.53018807] w\_new= [-0.24445726 0.71426676 2.5301905 ]

gradient= [-1.52882371e-04 -9.02950111e-05 2.43177382e-04] w = [-0.24445726 0.71426676 2.5301905 ] w\_new= [-0.24445879 0.71426586 2.53019293]

gradient= [-1.52706238e-04 -9.01990496e-05 2.42905288e-04] w = [-0.24445879 0.71426586 2.53019293] w\_new= [-0.24446032 0.71426496 2.53019536]

gradient= [-1.52530310e-04 -9.01031882e-05 2.42633498e-04] w = [-0.24446032 0.71426496 2.53019536] w\_new= [-0.24446185 0.71426406 2.53019779]

gradient= [-1.52354586e-04 -9.00074266e-05 2.42362012e-04] w = [-0.24446185 0.71426406 2.53019779] w\_new= [-0.24446337 0.71426316 2.53020021]

gradient= [-1.52179066e-04 -8.99117650e-05 2.42090831e-04] w = [-0.24446337 0.71426316 2.53020021] w\_new= [-0.24446489 0.71426226 2.53020263]

gradient= [-1.52003750e-04 -8.98162031e-05 2.41819953e-04] w = [-0.24446489 0.71426226 2.53020263] w\_new= [-0.24446641 0.71426136 2.53020505]

gradient= [-1.51828638e-04 -8.97207408e-05 2.41549379e-04] w = [-0.24446641 0.71426136 2.53020505] w\_new= [-0.24446793 0.71426046 2.53020747]

gradient= [-1.51653730e-04 -8.96253781e-05 2.41279108e-04] w = [-0.24446793 0.71426046 2.53020747] w\_new= [-0.24446945 0.71425957 2.53020988]

gradient= [-1.51479024e-04 -8.95301148e-05 2.41009139e-04] w = [-0.24446945 0.71425957 2.53020988] w\_new= [-0.24447096 0.71425867 2.53021229]

gradient= [-1.51304522e-04 -8.94349509e-05 2.40739473e-04] w = [-0.24447096 0.71425867 2.53021229] w\_new= [-0.24447247 0.71425778 2.5302147 ]

gradient= [-1.51130223e-04 -8.93398862e-05 2.40470109e-04] w = [-0.24447247 0.71425778 2.5302147 ] w\_new= [-0.24447398 0.71425688 2.5302171 ]

gradient= [-1.50956126e-04 -8.92449207e-05 2.40201047e-04] w = [-0.24447398 0.71425688 2.5302171 ] w\_new= [-0.24447549 0.71425599 2.5302195 ]

gradient= [-1.50782232e-04 -8.91500542e-05 2.39932286e-04] w = [-0.24447549 0.71425599 2.5302195 ] w\_new= [-0.244477 0.7142551 2.5302219]

gradient= [-1.50608540e-04 -8.90552867e-05 2.39663826e-04] w = [-0.244477 0.7142551 2.5302219] w\_new= [-0.24447851 0.71425421 2.5302243 ]

gradient= [-1.50435049e-04 -8.89606180e-05 2.39395667e-04] w = [-0.24447851 0.71425421 2.5302243 ] w\_new= [-0.24448001 0.71425332 2.53022669]

gradient= [-1.50261760e-04 -8.88660480e-05 2.39127808e-04] w = [-0.24448001 0.71425332 2.53022669] w\_new= [-0.24448152 0.71425243 2.53022908]

gradient= [-1.50088673e-04 -8.87715767e-05 2.38860250e-04] w = [-0.24448152 0.71425243 2.53022908] w\_new= [-0.24448302 0.71425154 2.53023147]

gradient= [-1.49915787e-04 -8.86772039e-05 2.38592991e-04] w = [-0.24448302 0.71425154 2.53023147] w\_new= [-0.24448452 0.71425066 2.53023386]

gradient= [-1.49743101e-04 -8.85829296e-05 2.38326031e-04] w = [-0.24448452 0.71425066 2.53023386] w\_new= [-0.24448601 0.71424977 2.53023624]

gradient= [-1.49570617e-04 -8.84887536e-05 2.38059370e-04] w = [-0.24448601 0.71424977 2.53023624] w\_new= [-0.24448751 0.71424889 2.53023862]

gradient= [-1.49398332e-04 -8.83946759e-05 2.37793008e-04] w = [-0.24448751 0.71424889 2.53023862] w\_new= [-0.244489 0.714248 2.530241]

gradient= [-1.49226248e-04 -8.83006963e-05 2.37526945e-04] w = [-0.244489 0.714248 2.530241] w\_new= [-0.24449049 0.71424712 2.53024338]

gradient= [-1.49054364e-04 -8.82068147e-05 2.37261179e-04] w = [-0.24449049 0.71424712 2.53024338] w\_new= [-0.24449199 0.71424624 2.53024575]

gradient= [-1.48882680e-04 -8.81130311e-05 2.36995711e-04] w = [-0.24449199 0.71424624 2.53024575] w\_new= [-0.24449347 0.71424536 2.53024812]

gradient= [-1.48711195e-04 -8.80193453e-05 2.36730541e-04] w = [-0.24449347 0.71424536 2.53024812] w\_new= [-0.24449496 0.71424448 2.53025049]

gradient= [-1.48539910e-04 -8.79257573e-05 2.36465667e-04] w = [-0.24449496 0.71424448 2.53025049] w\_new= [-0.24449645 0.7142436 2.53025285]

gradient= [-1.48368823e-04 -8.78322669e-05 2.36201090e-04] w = [-0.24449645 0.7142436 2.53025285] w\_new= [-0.24449793 0.71424272 2.53025521]

gradient= [-1.48197935e-04 -8.77388741e-05 2.35936810e-04] w = [-0.24449793 0.71424272 2.53025521] w\_new= [-0.24449941 0.71424184 2.53025757]

gradient= [-1.48027246e-04 -8.76455787e-05 2.35672825e-04] w = [-0.24449941 0.71424184 2.53025757] w\_new= [-0.24450089 0.71424096 2.53025993]

gradient= [-1.47856755e-04 -8.75523807e-05 2.35409136e-04] w = [-0.24450089 0.71424096 2.53025993] w\_new= [-0.24450237 0.71424009 2.53026228]

gradient= [-1.47686463e-04 -8.74592799e-05 2.35145743e-04] w = [-0.24450237 0.71424009 2.53026228] w\_new= [-0.24450385 0.71423921 2.53026463]

gradient= [-1.47516368e-04 -8.73662763e-05 2.34882644e-04] w = [-0.24450385 0.71423921 2.53026463] w\_new= [-0.24450532 0.71423834 2.53026698]

gradient= [-1.47346471e-04 -8.72733697e-05 2.34619840e-04] w = [-0.24450532 0.71423834 2.53026698] w\_new= [-0.2445068 0.71423747 2.53026933]

gradient= [-1.47176771e-04 -8.71805601e-05 2.34357331e-04] w = [-0.2445068 0.71423747 2.53026933] w\_new= [-0.24450827 0.7142366 2.53027167]

gradient= [-1.47007268e-04 -8.70878473e-05 2.34095116e-04] w = [-0.24450827 0.7142366 2.53027167] w\_new= [-0.24450974 0.71423572 2.53027401]

gradient= [-1.46837962e-04 -8.69952313e-05 2.33833194e-04] w = [-0.24450974 0.71423572 2.53027401] w\_new= [-0.24451121 0.71423485 2.53027635]

gradient= [-1.46668853e-04 -8.69027120e-05 2.33571565e-04] w = [-0.24451121 0.71423485 2.53027635] w\_new= [-0.24451267 0.71423399 2.53027869]

gradient= [-1.46499941e-04 -8.68102892e-05 2.33310230e-04] w = [-0.24451267 0.71423399 2.53027869] w\_new= [-0.24451414 0.71423312 2.53028102]

gradient= [-1.46331225e-04 -8.67179628e-05 2.33049187e-04] w = [-0.24451414 0.71423312 2.53028102] w\_new= [-0.2445156 0.71423225 2.53028335]

gradient= [-1.46162704e-04 -8.66257329e-05 2.32788437e-04] w = [-0.2445156 0.71423225 2.53028335] w\_new= [-0.24451706 0.71423138 2.53028568]

gradient= [-1.45994380e-04 -8.65335992e-05 2.32527979e-04] w = [-0.24451706 0.71423138 2.53028568] w\_new= [-0.24451852 0.71423052 2.530288 ]

gradient= [-1.45826251e-04 -8.64415616e-05 2.32267813e-04] w = [-0.24451852 0.71423052 2.530288 ] w\_new= [-0.24451998 0.71422965 2.53029033]

gradient= [-1.45658317e-04 -8.63496202e-05 2.32007937e-04] w = [-0.24451998 0.71422965 2.53029033] w\_new= [-0.24452144 0.71422879 2.53029265]

gradient= [-1.45490579e-04 -8.62577747e-05 2.31748353e-04] w = [-0.24452144 0.71422879 2.53029265] w\_new= [-0.24452289 0.71422793 2.53029496]

gradient= [-1.45323035e-04 -8.61660251e-05 2.31489060e-04] w = [-0.24452289 0.71422793 2.53029496] w\_new= [-0.24452435 0.71422707 2.53029728]

gradient= [-1.45155686e-04 -8.60743713e-05 2.31230057e-04] w = [-0.24452435 0.71422707 2.53029728] w\_new= [-0.2445258 0.71422621 2.53029959]

gradient= [-1.44988531e-04 -8.59828131e-05 2.30971345e-04] w = [-0.2445258 0.71422621 2.53029959] w\_new= [-0.24452725 0.71422535 2.5303019 ]

gradient= [-1.44821571e-04 -8.58913505e-05 2.30712922e-04] w = [-0.24452725 0.71422535 2.5303019 ] w\_new= [-0.2445287 0.71422449 2.53030421]

gradient= [-1.44654805e-04 -8.57999835e-05 2.30454788e-04] w = [-0.2445287 0.71422449 2.53030421] w\_new= [-0.24453014 0.71422363 2.53030651]

gradient= [-1.44488232e-04 -8.57087118e-05 2.30196944e-04] w = [-0.24453014 0.71422363 2.53030651] w\_new= [-0.24453159 0.71422277 2.53030882]

gradient= [-1.44321852e-04 -8.56175354e-05 2.29939388e-04] w = [-0.24453159 0.71422277 2.53030882] w\_new= [-0.24453303 0.71422192 2.53031111]

gradient= [-1.44155666e-04 -8.55264542e-05 2.29682121e-04] w = [-0.24453303 0.71422192 2.53031111] w\_new= [-0.24453447 0.71422106 2.53031341]

gradient= [-1.43989673e-04 -8.54354681e-05 2.29425142e-04] w = [-0.24453447 0.71422106 2.53031341] w\_new= [-0.24453591 0.71422021 2.53031571]

gradient= [-1.43823873e-04 -8.53445770e-05 2.29168450e-04] w = [-0.24453591 0.71422021 2.53031571] w\_new= [-0.24453735 0.71421935 2.530318 ]

gradient= [-1.43658266e-04 -8.52537808e-05 2.28912046e-04] w = [-0.24453735 0.71421935 2.530318 ] w\_new= [-0.24453879 0.7142185 2.53032029]

gradient= [-1.43492851e-04 -8.51630794e-05 2.28655930e-04] w = [-0.24453879 0.7142185 2.53032029] w\_new= [-0.24454022 0.71421765 2.53032257]

gradient= [-1.43327627e-04 -8.50724727e-05 2.28400100e-04] w = [-0.24454022 0.71421765 2.53032257] w\_new= [-0.24454166 0.7142168 2.53032486]

gradient= [-1.43162596e-04 -8.49819606e-05 2.28144557e-04] w = [-0.24454166 0.7142168 2.53032486] w\_new= [-0.24454309 0.71421595 2.53032714]

gradient= [-1.42997757e-04 -8.48915431e-05 2.27889300e-04] w = [-0.24454309 0.71421595 2.53032714] w\_new= [-0.24454452 0.7142151 2.53032942]

gradient= [-1.42833109e-04 -8.48012200e-05 2.27634329e-04] w = [-0.24454452 0.7142151 2.53032942] w\_new= [-0.24454594 0.71421425 2.53033169]

gradient= [-1.42668652e-04 -8.47109912e-05 2.27379643e-04] w = [-0.24454594 0.71421425 2.53033169] w\_new= [-0.24454737 0.7142134 2.53033397]

gradient= [-1.42504386e-04 -8.46208566e-05 2.27125243e-04] w = [-0.24454737 0.7142134 2.53033397] w\_new= [-0.2445488 0.71421256 2.53033624]

gradient= [-1.42340311e-04 -8.45308162e-05 2.26871127e-04] w = [-0.2445488 0.71421256 2.53033624] w\_new= [-0.24455022 0.71421171 2.53033851]

gradient= [-1.42176427e-04 -8.44408698e-05 2.26617297e-04] w = [-0.24455022 0.71421171 2.53033851] w\_new= [-0.24455164 0.71421087 2.53034077]

gradient= [-1.42012733e-04 -8.43510174e-05 2.26363750e-04] w = [-0.24455164 0.71421087 2.53034077] w\_new= [-0.24455306 0.71421002 2.53034304]

gradient= [-1.41849229e-04 -8.42612588e-05 2.26110487e-04] w = [-0.24455306 0.71421002 2.53034304] w\_new= [-0.24455448 0.71420918 2.5303453 ]

gradient= [-1.41685914e-04 -8.41715940e-05 2.25857508e-04] w = [-0.24455448 0.71420918 2.5303453 ] w\_new= [-0.2445559 0.71420834 2.53034756]

gradient= [-1.41522790e-04 -8.40820228e-05 2.25604813e-04] w = [-0.2445559 0.71420834 2.53034756] w\_new= [-0.24455731 0.7142075 2.53034981]

gradient= [-1.41359855e-04 -8.39925452e-05 2.25352400e-04] w = [-0.24455731 0.7142075 2.53034981] w\_new= [-0.24455873 0.71420666 2.53035207]

gradient= [-1.41197109e-04 -8.39031611e-05 2.25100270e-04] w = [-0.24455873 0.71420666 2.53035207] w\_new= [-0.24456014 0.71420582 2.53035432]

gradient= [-1.41034552e-04 -8.38138703e-05 2.24848423e-04] w = [-0.24456014 0.71420582 2.53035432] w\_new= [-0.24456155 0.71420498 2.53035657]

gradient= [-1.40872184e-04 -8.37246728e-05 2.24596857e-04] w = [-0.24456155 0.71420498 2.53035657] w\_new= [-0.24456296 0.71420414 2.53035881]

gradient= [-1.40710005e-04 -8.36355685e-05 2.24345573e-04] w = [-0.24456296 0.71420414 2.53035881] w\_new= [-0.24456436 0.71420331 2.53036106]

gradient= [-1.40548014e-04 -8.35465573e-05 2.24094571e-04] w = [-0.24456436 0.71420331 2.53036106] w\_new= [-0.24456577 0.71420247 2.5303633 ]

gradient= [-1.40386211e-04 -8.34576391e-05 2.23843850e-04] w = [-0.24456577 0.71420247 2.5303633 ] w\_new= [-0.24456717 0.71420164 2.53036554]

gradient= [-1.40224596e-04 -8.33688138e-05 2.23593409e-04] w = [-0.24456717 0.71420164 2.53036554] w\_new= [-0.24456858 0.7142008 2.53036777]

gradient= [-1.40063168e-04 -8.32800813e-05 2.23343249e-04] w = [-0.24456858 0.7142008 2.53036777] w\_new= [-0.24456998 0.71419997 2.53037 ]

gradient= [-1.39901928e-04 -8.31914415e-05 2.23093370e-04] w = [-0.24456998 0.71419997 2.53037 ] w\_new= [-0.24457138 0.71419914 2.53037224]

gradient= [-1.39740875e-04 -8.31028943e-05 2.22843770e-04] w = [-0.24457138 0.71419914 2.53037224] w\_new= [-0.24457277 0.71419831 2.53037446]

gradient= [-1.39580010e-04 -8.30144396e-05 2.22594449e-04] w = [-0.24457277 0.71419831 2.53037446] w\_new= [-0.24457417 0.71419748 2.53037669]

gradient= [-1.39419331e-04 -8.29260774e-05 2.22345408e-04] w = [-0.24457417 0.71419748 2.53037669] w\_new= [-0.24457556 0.71419665 2.53037891]

gradient= [-1.39258838e-04 -8.28378074e-05 2.22096646e-04] w = [-0.24457556 0.71419665 2.53037891] w\_new= [-0.24457696 0.71419582 2.53038113]

gradient= [-1.39098532e-04 -8.27496298e-05 2.21848162e-04] w = [-0.24457696 0.71419582 2.53038113] w\_new= [-0.24457835 0.71419499 2.53038335]

gradient= [-1.38938412e-04 -8.26615443e-05 2.21599956e-04] w = [-0.24457835 0.71419499 2.53038335] w\_new= [-0.24457974 0.71419417 2.53038557]

gradient= [-1.38778478e-04 -8.25735508e-05 2.21352029e-04] w = [-0.24457974 0.71419417 2.53038557] w\_new= [-0.24458112 0.71419334 2.53038778]

gradient= [-1.38618730e-04 -8.24856493e-05 2.21104379e-04] w = [-0.24458112 0.71419334 2.53038778] w\_new= [-0.24458251 0.71419252 2.53038999]

gradient= [-1.38459167e-04 -8.23978396e-05 2.20857007e-04] w = [-0.24458251 0.71419252 2.53038999] w\_new= [-0.24458389 0.71419169 2.5303922 ]

gradient= [-1.38299789e-04 -8.23101217e-05 2.20609911e-04] w = [-0.24458389 0.71419169 2.5303922 ] w\_new= [-0.24458528 0.71419087 2.53039441]

gradient= [-1.38140597e-04 -8.22224955e-05 2.20363092e-04] w = [-0.24458528 0.71419087 2.53039441] w\_new= [-0.24458666 0.71419005 2.53039661]

gradient= [-1.37981589e-04 -8.21349609e-05 2.20116550e-04] w = [-0.24458666 0.71419005 2.53039661] w\_new= [-0.24458804 0.71418923 2.53039881]

gradient= [-1.37822766e-04 -8.20475178e-05 2.19870284e-04] w = [-0.24458804 0.71418923 2.53039881] w\_new= [-0.24458942 0.71418841 2.53040101]

gradient= [-1.37664127e-04 -8.19601661e-05 2.19624293e-04] w = [-0.24458942 0.71418841 2.53040101] w\_new= [-0.24459079 0.71418759 2.53040321]

gradient= [-1.37505673e-04 -8.18729056e-05 2.19378578e-04] w = [-0.24459079 0.71418759 2.53040321] w\_new= [-0.24459217 0.71418677 2.5304054 ]

gradient= [-1.37347402e-04 -8.17857364e-05 2.19133139e-04] w = [-0.24459217 0.71418677 2.5304054 ] w\_new= [-0.24459354 0.71418595 2.53040759]

gradient= [-1.37189315e-04 -8.16986583e-05 2.18887974e-04] w = [-0.24459354 0.71418595 2.53040759] w\_new= [-0.24459491 0.71418513 2.53040978]

gradient= [-1.37031412e-04 -8.16116713e-05 2.18643083e-04] w = [-0.24459491 0.71418513 2.53040978] w\_new= [-0.24459628 0.71418432 2.53041197]

gradient= [-1.36873692e-04 -8.15247751e-05 2.18398467e-04] w = [-0.24459628 0.71418432 2.53041197] w\_new= [-0.24459765 0.7141835 2.53041415]

gradient= [-1.36716155e-04 -8.14379698e-05 2.18154125e-04] w = [-0.24459765 0.7141835 2.53041415] w\_new= [-0.24459902 0.71418269 2.53041633]

gradient= [-1.36558801e-04 -8.13512553e-05 2.17910056e-04] w = [-0.24459902 0.71418269 2.53041633] w\_new= [-0.24460039 0.71418187 2.53041851]

gradient= [-1.36401630e-04 -8.12646314e-05 2.17666261e-04] w = [-0.24460039 0.71418187 2.53041851] w\_new= [-0.24460175 0.71418106 2.53042069]

gradient= [-1.36244641e-04 -8.11780981e-05 2.17422739e-04] w = [-0.24460175 0.71418106 2.53042069] w\_new= [-0.24460311 0.71418025 2.53042286]

gradient= [-1.36087834e-04 -8.10916552e-05 2.17179489e-04] w = [-0.24460311 0.71418025 2.53042286] w\_new= [-0.24460447 0.71417944 2.53042504]

gradient= [-1.35931210e-04 -8.10053027e-05 2.16936512e-04] w = [-0.24460447 0.71417944 2.53042504] w\_new= [-0.24460583 0.71417863 2.5304272 ]

gradient= [-1.35774767e-04 -8.09190406e-05 2.16693807e-04] w = [-0.24460583 0.71417863 2.5304272 ] w\_new= [-0.24460719 0.71417782 2.53042937]

gradient= [-1.35618506e-04 -8.08328686e-05 2.16451374e-04] w = [-0.24460719 0.71417782 2.53042937] w\_new= [-0.24460855 0.71417701 2.53043154]

gradient= [-1.35462426e-04 -8.07467867e-05 2.16209212e-04] w = [-0.24460855 0.71417701 2.53043154] w\_new= [-0.2446099 0.7141762 2.5304337]

gradient= [-1.35306527e-04 -8.06607948e-05 2.15967322e-04] w = [-0.2446099 0.7141762 2.5304337] w\_new= [-0.24461125 0.7141754 2.53043586]

gradient= [-1.35150809e-04 -8.05748928e-05 2.15725702e-04] w = [-0.24461125 0.7141754 2.53043586] w\_new= [-0.24461261 0.71417459 2.53043802]

gradient= [-1.34995272e-04 -8.04890807e-05 2.15484353e-04] w = [-0.24461261 0.71417459 2.53043802] w\_new= [-0.24461396 0.71417379 2.53044017]

gradient= [-1.34839916e-04 -8.04033583e-05 2.15243274e-04] w = [-0.24461396 0.71417379 2.53044017] w\_new= [-0.2446153 0.71417298 2.53044232]

gradient= [-1.34684740e-04 -8.03177256e-05 2.15002465e-04] w = [-0.2446153 0.71417298 2.53044232] w\_new= [-0.24461665 0.71417218 2.53044447]

gradient= [-1.34529744e-04 -8.02321824e-05 2.14761926e-04] w = [-0.24461665 0.71417218 2.53044447] w\_new= [-0.244618 0.71417138 2.53044662]

gradient= [-1.34374928e-04 -8.01467286e-05 2.14521656e-04] w = [-0.244618 0.71417138 2.53044662] w\_new= [-0.24461934 0.71417057 2.53044877]

gradient= [-1.34220291e-04 -8.00613643e-05 2.14281655e-04] w = [-0.24461934 0.71417057 2.53044877] w\_new= [-0.24462068 0.71416977 2.53045091]

gradient= [-1.34065834e-04 -7.99760892e-05 2.14041923e-04] w = [-0.24462068 0.71416977 2.53045091] w\_new= [-0.24462202 0.71416897 2.53045305]

gradient= [-1.33911556e-04 -7.98909033e-05 2.13802460e-04] w = [-0.24462202 0.71416897 2.53045305] w\_new= [-0.24462336 0.71416818 2.53045519]

gradient= [-1.33757458e-04 -7.98058065e-05 2.13563264e-04] w = [-0.24462336 0.71416818 2.53045519] w\_new= [-0.2446247 0.71416738 2.53045732]

gradient= [-1.33603538e-04 -7.97207987e-05 2.13324337e-04] w = [-0.2446247 0.71416738 2.53045732] w\_new= [-0.24462604 0.71416658 2.53045946]

gradient= [-1.33449797e-04 -7.96358799e-05 2.13085677e-04] w = [-0.24462604 0.71416658 2.53045946] w\_new= [-0.24462737 0.71416578 2.53046159]

gradient= [-1.33296234e-04 -7.95510498e-05 2.12847284e-04] w = [-0.24462737 0.71416578 2.53046159] w\_new= [-0.2446287 0.71416499 2.53046371]

gradient= [-1.33142850e-04 -7.94663085e-05 2.12609158e-04] w = [-0.2446287 0.71416499 2.53046371] w\_new= [-0.24463003 0.71416419 2.53046584]

gradient= [-1.32989643e-04 -7.93816559e-05 2.12371299e-04] w = [-0.24463003 0.71416419 2.53046584] w\_new= [-0.24463136 0.7141634 2.53046796]

gradient= [-1.32836614e-04 -7.92970918e-05 2.12133706e-04] w = [-0.24463136 0.7141634 2.53046796] w\_new= [-0.24463269 0.71416261 2.53047009]

gradient= [-1.32683763e-04 -7.92126161e-05 2.11896379e-04] w = [-0.24463269 0.71416261 2.53047009] w\_new= [-0.24463402 0.71416181 2.5304722 ]

gradient= [-1.32531090e-04 -7.91282289e-05 2.11659318e-04] w = [-0.24463402 0.71416181 2.5304722 ] w\_new= [-0.24463534 0.71416102 2.53047432]

gradient= [-1.32378593e-04 -7.90439299e-05 2.11422523e-04] w = [-0.24463534 0.71416102 2.53047432] w\_new= [-0.24463667 0.71416023 2.53047644]

gradient= [-1.32226273e-04 -7.89597191e-05 2.11185993e-04] w = [-0.24463667 0.71416023 2.53047644] w\_new= [-0.24463799 0.71415944 2.53047855]

gradient= [-1.32074131e-04 -7.88755964e-05 2.10949727e-04] w = [-0.24463799 0.71415944 2.53047855] w\_new= [-0.24463931 0.71415865 2.53048066]

gradient= [-1.31922164e-04 -7.87915618e-05 2.10713726e-04] w = [-0.24463931 0.71415865 2.53048066] w\_new= [-0.24464063 0.71415787 2.53048276]

gradient= [-1.31770374e-04 -7.87076150e-05 2.10477989e-04] w = [-0.24464063 0.71415787 2.53048276] w\_new= [-0.24464195 0.71415708 2.53048487]

gradient= [-1.31618761e-04 -7.86237561e-05 2.10242517e-04] w = [-0.24464195 0.71415708 2.53048487] w\_new= [-0.24464326 0.71415629 2.53048697]

gradient= [-1.31467323e-04 -7.85399849e-05 2.10007308e-04] w = [-0.24464326 0.71415629 2.53048697] w\_new= [-0.24464458 0.71415551 2.53048907]

gradient= [-1.31316060e-04 -7.84563014e-05 2.09772362e-04] w = [-0.24464458 0.71415551 2.53048907] w\_new= [-0.24464589 0.71415472 2.53049117]

gradient= [-1.31164974e-04 -7.83727055e-05 2.09537679e-04] w = [-0.24464589 0.71415472 2.53049117] w\_new= [-0.2446472 0.71415394 2.53049326]

gradient= [-1.31014062e-04 -7.82891970e-05 2.09303260e-04] w = [-0.2446472 0.71415394 2.53049326] w\_new= [-0.24464851 0.71415316 2.53049536]

gradient= [-1.30863326e-04 -7.82057760e-05 2.09069102e-04] w = [-0.24464851 0.71415316 2.53049536] w\_new= [-0.24464982 0.71415237 2.53049745]

gradient= [-1.30712765e-04 -7.81224422e-05 2.08835207e-04] w = [-0.24464982 0.71415237 2.53049745] w\_new= [-0.24465113 0.71415159 2.53049954]

gradient= [-1.30562378e-04 -7.80391956e-05 2.08601574e-04] w = [-0.24465113 0.71415159 2.53049954] w\_new= [-0.24465244 0.71415081 2.53050162]

gradient= [-1.30412166e-04 -7.79560362e-05 2.08368202e-04] w = [-0.24465244 0.71415081 2.53050162] w\_new= [-0.24465374 0.71415003 2.53050371]

gradient= [-1.30262128e-04 -7.78729638e-05 2.08135092e-04] w = [-0.24465374 0.71415003 2.53050371] w\_new= [-0.24465504 0.71414925 2.53050579]

gradient= [-1.30112264e-04 -7.77899783e-05 2.07902243e-04] w = [-0.24465504 0.71414925 2.53050579] w\_new= [-0.24465634 0.71414848 2.53050787]

gradient= [-1.29962575e-04 -7.77070797e-05 2.07669654e-04] w = [-0.24465634 0.71414848 2.53050787] w\_new= [-0.24465764 0.7141477 2.53050994]

gradient= [-1.29813058e-04 -7.76242679e-05 2.07437326e-04] w = [-0.24465764 0.7141477 2.53050994] w\_new= [-0.24465894 0.71414692 2.53051202]

gradient= [-1.29663716e-04 -7.75415427e-05 2.07205258e-04] w = [-0.24465894 0.71414692 2.53051202] w\_new= [-0.24466024 0.71414615 2.53051409]

gradient= [-1.29514546e-04 -7.74589042e-05 2.06973450e-04] w = [-0.24466024 0.71414615 2.53051409] w\_new= [-0.24466153 0.71414537 2.53051616]

gradient= [-1.29365550e-04 -7.73763521e-05 2.06741902e-04] w = [-0.24466153 0.71414537 2.53051616] w\_new= [-0.24466283 0.7141446 2.53051823]

gradient= [-1.29216726e-04 -7.72938864e-05 2.06510612e-04] w = [-0.24466283 0.7141446 2.53051823] w\_new= [-0.24466412 0.71414383 2.53052029]

gradient= [-1.29068075e-04 -7.72115071e-05 2.06279582e-04] w = [-0.24466412 0.71414383 2.53052029] w\_new= [-0.24466541 0.71414305 2.53052235]

gradient= [-1.28919597e-04 -7.71292140e-05 2.06048811e-04] w = [-0.24466541 0.71414305 2.53052235] w\_new= [-0.2446667 0.71414228 2.53052442]

gradient= [-1.28771290e-04 -7.70470071e-05 2.05818297e-04] w = [-0.2446667 0.71414228 2.53052442] w\_new= [-0.24466799 0.71414151 2.53052647]

gradient= [-1.28623156e-04 -7.69648862e-05 2.05588042e-04] w = [-0.24466799 0.71414151 2.53052647] w\_new= [-0.24466927 0.71414074 2.53052853]

gradient= [-1.28475194e-04 -7.68828513e-05 2.05358045e-04] w = [-0.24466927 0.71414074 2.53052853] w\_new= [-0.24467056 0.71413997 2.53053058]

gradient= [-1.28327403e-04 -7.68009022e-05 2.05128305e-04] w = [-0.24467056 0.71413997 2.53053058] w\_new= [-0.24467184 0.71413921 2.53053263]

gradient= [-1.28179784e-04 -7.67190390e-05 2.04898823e-04] w = [-0.24467184 0.71413921 2.53053263] w\_new= [-0.24467312 0.71413844 2.53053468]

gradient= [-1.28032336e-04 -7.66372615e-05 2.04669597e-04] w = [-0.24467312 0.71413844 2.53053468] w\_new= [-0.2446744 0.71413767 2.53053673]

gradient= [-1.27885059e-04 -7.65555696e-05 2.04440629e-04] w = [-0.2446744 0.71413767 2.53053673] w\_new= [-0.24467568 0.71413691 2.53053877]

gradient= [-1.27737953e-04 -7.64739632e-05 2.04211916e-04] w = [-0.24467568 0.71413691 2.53053877] w\_new= [-0.24467696 0.71413614 2.53054082]

gradient= [-1.27591017e-04 -7.63924423e-05 2.03983460e-04] w = [-0.24467696 0.71413614 2.53054082] w\_new= [-0.24467823 0.71413538 2.53054286]

gradient= [-1.27444252e-04 -7.63110067e-05 2.03755259e-04] w = [-0.24467823 0.71413538 2.53054286] w\_new= [-0.24467951 0.71413462 2.53054489]

gradient= [-1.27297658e-04 -7.62296565e-05 2.03527314e-04] w = [-0.24467951 0.71413462 2.53054489] w\_new= [-0.24468078 0.71413385 2.53054693]

gradient= [-1.27151233e-04 -7.61483914e-05 2.03299624e-04] w = [-0.24468078 0.71413385 2.53054693] w\_new= [-0.24468205 0.71413309 2.53054896]

gradient= [-1.27004978e-04 -7.60672114e-05 2.03072189e-04] w = [-0.24468205 0.71413309 2.53054896] w\_new= [-0.24468332 0.71413233 2.53055099]

gradient= [-1.26858893e-04 -7.59861164e-05 2.02845009e-04] w = [-0.24468332 0.71413233 2.53055099] w\_new= [-0.24468459 0.71413157 2.53055302]

gradient= [-1.26712977e-04 -7.59051063e-05 2.02618083e-04] w = [-0.24468459 0.71413157 2.53055302] w\_new= [-0.24468586 0.71413081 2.53055505]

gradient= [-1.26567230e-04 -7.58241811e-05 2.02391411e-04] w = [-0.24468586 0.71413081 2.53055505] w\_new= [-0.24468713 0.71413005 2.53055707]

gradient= [-1.26421653e-04 -7.57433406e-05 2.02164993e-04] w = [-0.24468713 0.71413005 2.53055707] w\_new= [-0.24468839 0.7141293 2.53055909]

gradient= [-1.26276244e-04 -7.56625848e-05 2.01938829e-04] w = [-0.24468839 0.7141293 2.53055909] w\_new= [-0.24468965 0.71412854 2.53056111]

gradient= [-1.26131004e-04 -7.55819136e-05 2.01712918e-04] w = [-0.24468965 0.71412854 2.53056111] w\_new= [-0.24469091 0.71412778 2.53056313]

gradient= [-1.25985933e-04 -7.55013269e-05 2.01487259e-04] w = [-0.24469091 0.71412778 2.53056313] w\_new= [-0.24469217 0.71412703 2.53056514]

gradient= [-1.25841029e-04 -7.54208246e-05 2.01261854e-04] w = [-0.24469217 0.71412703 2.53056514] w\_new= [-0.24469343 0.71412627 2.53056716]

gradient= [-1.25696294e-04 -7.53404066e-05 2.01036701e-04] w = [-0.24469343 0.71412627 2.53056716] w\_new= [-0.24469469 0.71412552 2.53056917]

gradient= [-1.25551727e-04 -7.52600728e-05 2.00811799e-04] w = [-0.24469469 0.71412552 2.53056917] w\_new= [-0.24469594 0.71412477 2.53057118]

gradient= [-1.25407327e-04 -7.51798232e-05 2.00587150e-04] w = [-0.24469594 0.71412477 2.53057118] w\_new= [-0.2446972 0.71412402 2.53057318]

gradient= [-1.25263095e-04 -7.50996577e-05 2.00362752e-04] w = [-0.2446972 0.71412402 2.53057318] w\_new= [-0.24469845 0.71412327 2.53057519]

gradient= [-1.25119030e-04 -7.50195761e-05 2.00138606e-04] w = [-0.24469845 0.71412327 2.53057519] w\_new= [-0.2446997 0.71412252 2.53057719]

gradient= [-1.24975132e-04 -7.49395784e-05 1.99914710e-04] w = [-0.2446997 0.71412252 2.53057719] w\_new= [-0.24470095 0.71412177 2.53057919]

gradient= [-1.24831401e-04 -7.48596645e-05 1.99691065e-04] w = [-0.24470095 0.71412177 2.53057919] w\_new= [-0.2447022 0.71412102 2.53058118]

gradient= [-1.24687836e-04 -7.47798344e-05 1.99467671e-04] w = [-0.2447022 0.71412102 2.53058118] w\_new= [-0.24470345 0.71412027 2.53058318]

gradient= [-1.24544438e-04 -7.47000878e-05 1.99244526e-04] w = [-0.24470345 0.71412027 2.53058318] w\_new= [-0.24470469 0.71411952 2.53058517]

gradient= [-1.24401207e-04 -7.46204249e-05 1.99021632e-04] w = [-0.24470469 0.71411952 2.53058517] w\_new= [-0.24470594 0.71411878 2.53058716]

gradient= [-1.24258141e-04 -7.45408454e-05 1.98798987e-04] w = [-0.24470594 0.71411878 2.53058716] w\_new= [-0.24470718 0.71411803 2.53058915]

gradient= [-1.24115242e-04 -7.44613492e-05 1.98576591e-04] w = [-0.24470718 0.71411803 2.53058915] w\_new= [-0.24470842 0.71411729 2.53059113]

gradient= [-1.23972508e-04 -7.43819364e-05 1.98354444e-04] w = [-0.24470842 0.71411729 2.53059113] w\_new= [-0.24470966 0.71411654 2.53059312]

gradient= [-1.23829940e-04 -7.43026068e-05 1.98132546e-04] w = [-0.24470966 0.71411654 2.53059312] w\_new= [-0.2447109 0.7141158 2.5305951]

gradient= [-1.23687536e-04 -7.42233602e-05 1.97910897e-04] w = [-0.2447109 0.7141158 2.5305951] w\_new= [-0.24471214 0.71411506 2.53059708]

gradient= [-1.23545299e-04 -7.41441968e-05 1.97689495e-04] w = [-0.24471214 0.71411506 2.53059708] w\_new= [-0.24471337 0.71411432 2.53059905]

gradient= [-1.23403226e-04 -7.40651163e-05 1.97468342e-04] w = [-0.24471337 0.71411432 2.53059905] w\_new= [-0.2447146 0.71411358 2.53060103]

gradient= [-1.23261317e-04 -7.39861186e-05 1.97247436e-04] w = [-0.2447146 0.71411358 2.53060103] w\_new= [-0.24471584 0.71411284 2.530603 ]

gradient= [-1.23119574e-04 -7.39072037e-05 1.97026777e-04] w = [-0.24471584 0.71411284 2.530603 ] w\_new= [-0.24471707 0.7141121 2.53060497]

gradient= [-1.22977994e-04 -7.38283716e-05 1.96806366e-04] w = [-0.24471707 0.7141121 2.53060497] w\_new= [-0.2447183 0.71411136 2.53060694]

gradient= [-1.22836579e-04 -7.37496220e-05 1.96586201e-04] w = [-0.2447183 0.71411136 2.53060694] w\_new= [-0.24471953 0.71411062 2.53060891]

gradient= [-1.22695328e-04 -7.36709550e-05 1.96366283e-04] w = [-0.24471953 0.71411062 2.53060891] w\_new= [-0.24472075 0.71410988 2.53061087]

gradient= [-1.22554241e-04 -7.35923704e-05 1.96146611e-04] w = [-0.24472075 0.71410988 2.53061087] w\_new= [-0.24472198 0.71410915 2.53061283]

gradient= [-1.22413317e-04 -7.35138682e-05 1.95927185e-04] w = [-0.24472198 0.71410915 2.53061283] w\_new= [-0.2447232 0.71410841 2.53061479]

gradient= [-1.22272556e-04 -7.34354483e-05 1.95708005e-04] w = [-0.2447232 0.71410841 2.53061479] w\_new= [-0.24472443 0.71410768 2.53061675]

gradient= [-1.22131959e-04 -7.33571105e-05 1.95489070e-04] w = [-0.24472443 0.71410768 2.53061675] w\_new= [-0.24472565 0.71410695 2.5306187 ]

gradient= [-1.21991525e-04 -7.32788549e-05 1.95270380e-04] w = [-0.24472565 0.71410695 2.5306187 ] w\_new= [-0.24472687 0.71410621 2.53062065]

gradient= [-1.21851253e-04 -7.32006813e-05 1.95051935e-04] w = [-0.24472687 0.71410621 2.53062065] w\_new= [-0.24472809 0.71410548 2.53062261]

gradient= [-1.21711145e-04 -7.31225896e-05 1.94833734e-04] w = [-0.24472809 0.71410548 2.53062261] w\_new= [-0.2447293 0.71410475 2.53062455]

gradient= [-1.21571198e-04 -7.30445798e-05 1.94615778e-04] w = [-0.2447293 0.71410475 2.53062455] w\_new= [-0.24473052 0.71410402 2.5306265 ]

gradient= [-1.21431414e-04 -7.29666518e-05 1.94398066e-04] w = [-0.24473052 0.71410402 2.5306265 ] w\_new= [-0.24473173 0.71410329 2.53062844]

gradient= [-1.21291792e-04 -7.28888054e-05 1.94180597e-04] w = [-0.24473173 0.71410329 2.53062844] w\_new= [-0.24473295 0.71410256 2.53063039]

gradient= [-1.21152332e-04 -7.28110407e-05 1.93963373e-04] w = [-0.24473295 0.71410256 2.53063039] w\_new= [-0.24473416 0.71410183 2.53063233]

gradient= [-1.21013033e-04 -7.27333575e-05 1.93746391e-04] w = [-0.24473416 0.71410183 2.53063233] w\_new= [-0.24473537 0.7141011 2.53063426]

gradient= [-1.20873896e-04 -7.26557557e-05 1.93529652e-04] w = [-0.24473537 0.7141011 2.53063426] w\_new= [-0.24473658 0.71410038 2.5306362 ]

gradient= [-1.20734921e-04 -7.25782353e-05 1.93313156e-04] w = [-0.24473658 0.71410038 2.5306362 ] w\_new= [-0.24473778 0.71409965 2.53063813]

gradient= [-1.20596106e-04 -7.25007962e-05 1.93096902e-04] w = [-0.24473778 0.71409965 2.53063813] w\_new= [-0.24473899 0.71409893 2.53064006]

gradient= [-1.20457452e-04 -7.24234382e-05 1.92880891e-04] w = [-0.24473899 0.71409893 2.53064006] w\_new= [-0.24474019 0.7140982 2.53064199]

gradient= [-1.20318959e-04 -7.23461614e-05 1.92665121e-04] w = [-0.24474019 0.7140982 2.53064199] w\_new= [-0.2447414 0.71409748 2.53064392]

gradient= [-1.20180627e-04 -7.22689656e-05 1.92449593e-04] w = [-0.2447414 0.71409748 2.53064392] w\_new= [-0.2447426 0.71409676 2.53064584]

gradient= [-1.20042455e-04 -7.21918507e-05 1.92234306e-04] w = [-0.2447426 0.71409676 2.53064584] w\_new= [-0.2447438 0.71409604 2.53064776]

gradient= [-1.19904443e-04 -7.21148167e-05 1.92019260e-04] w = [-0.2447438 0.71409604 2.53064776] w\_new= [-0.244745 0.71409531 2.53064968]

gradient= [-1.19766591e-04 -7.20378634e-05 1.91804455e-04] w = [-0.244745 0.71409531 2.53064968] w\_new= [-0.2447462 0.71409459 2.5306516 ]

gradient= [-1.19628899e-04 -7.19609909e-05 1.91589890e-04] w = [-0.2447462 0.71409459 2.5306516 ] w\_new= [-0.24474739 0.71409387 2.53065352]

gradient= [-1.19491367e-04 -7.18841989e-05 1.91375565e-04] w = [-0.24474739 0.71409387 2.53065352] w\_new= [-0.24474859 0.71409316 2.53065543]

gradient= [-1.19353993e-04 -7.18074875e-05 1.91161481e-04] w = [-0.24474859 0.71409316 2.53065543] w\_new= [-0.24474978 0.71409244 2.53065734]

gradient= [-1.19216780e-04 -7.17308566e-05 1.90947636e-04] w = [-0.24474978 0.71409244 2.53065734] w\_new= [-0.24475097 0.71409172 2.53065925]

gradient= [-1.19079725e-04 -7.16543060e-05 1.90734031e-04] w = [-0.24475097 0.71409172 2.53065925] w\_new= [-0.24475216 0.714091 2.53066116]

gradient= [-1.18942829e-04 -7.15778357e-05 1.90520664e-04] w = [-0.24475216 0.714091 2.53066116] w\_new= [-0.24475335 0.71409029 2.53066307]

gradient= [-1.18806092e-04 -7.15014455e-05 1.90307537e-04] w = [-0.24475335 0.71409029 2.53066307] w\_new= [-0.24475454 0.71408957 2.53066497]

gradient= [-1.18669513e-04 -7.14251355e-05 1.90094648e-04] w = [-0.24475454 0.71408957 2.53066497] w\_new= [-0.24475573 0.71408886 2.53066687]

gradient= [-1.18533092e-04 -7.13489056e-05 1.89881998e-04] w = [-0.24475573 0.71408886 2.53066687] w\_new= [-0.24475691 0.71408814 2.53066877]

gradient= [-1.18396830e-04 -7.12727556e-05 1.89669585e-04] w = [-0.24475691 0.71408814 2.53066877] w\_new= [-0.2447581 0.71408743 2.53067067]

gradient= [-1.18260725e-04 -7.11966854e-05 1.89457411e-04] w = [-0.2447581 0.71408743 2.53067067] w\_new= [-0.24475928 0.71408672 2.53067256]

gradient= [-1.18124779e-04 -7.11206951e-05 1.89245474e-04] w = [-0.24475928 0.71408672 2.53067256] w\_new= [-0.24476046 0.71408601 2.53067445]

gradient= [-1.17988990e-04 -7.10447845e-05 1.89033774e-04] w = [-0.24476046 0.71408601 2.53067445] w\_new= [-0.24476164 0.7140853 2.53067634]

gradient= [-1.17853358e-04 -7.09689535e-05 1.88822311e-04] w = [-0.24476164 0.7140853 2.53067634] w\_new= [-0.24476282 0.71408459 2.53067823]

gradient= [-1.17717883e-04 -7.08932020e-05 1.88611085e-04] w = [-0.24476282 0.71408459 2.53067823] w\_new= [-0.244764 0.71408388 2.53068012]

gradient= [-1.17582566e-04 -7.08175300e-05 1.88400096e-04] w = [-0.244764 0.71408388 2.53068012] w\_new= [-0.24476517 0.71408317 2.530682 ]

gradient= [-1.17447405e-04 -7.07419374e-05 1.88189342e-04] w = [-0.24476517 0.71408317 2.530682 ] w\_new= [-0.24476635 0.71408246 2.53068388]

gradient= [-1.17312401e-04 -7.06664241e-05 1.87978825e-04] w = [-0.24476635 0.71408246 2.53068388] w\_new= [-0.24476752 0.71408176 2.53068576]

gradient= [-1.17177553e-04 -7.05909900e-05 1.87768543e-04] w = [-0.24476752 0.71408176 2.53068576] w\_new= [-0.24476869 0.71408105 2.53068764]

gradient= [-1.17042862e-04 -7.05156350e-05 1.87558497e-04] w = [-0.24476869 0.71408105 2.53068764] w\_new= [-0.24476986 0.71408035 2.53068952]

gradient= [-1.16908327e-04 -7.04403591e-05 1.87348686e-04] w = [-0.24476986 0.71408035 2.53068952] w\_new= [-0.24477103 0.71407964 2.53069139]

gradient= [-1.16773947e-04 -7.03651622e-05 1.87139109e-04] w = [-0.24477103 0.71407964 2.53069139] w\_new= [-0.2447722 0.71407894 2.53069326]

gradient= [-1.16639724e-04 -7.02900442e-05 1.86929768e-04] w = [-0.2447722 0.71407894 2.53069326] w\_new= [-0.24477337 0.71407824 2.53069513]

gradient= [-1.16505655e-04 -7.02150050e-05 1.86720660e-04] w = [-0.24477337 0.71407824 2.53069513] w\_new= [-0.24477453 0.71407753 2.530697 ]

gradient= [-1.16371743e-04 -7.01400445e-05 1.86511787e-04] w = [-0.24477453 0.71407753 2.530697 ] w\_new= [-0.24477569 0.71407683 2.53069886]

gradient= [-1.16237985e-04 -7.00651627e-05 1.86303148e-04] w = [-0.24477569 0.71407683 2.53069886] w\_new= [-0.24477686 0.71407613 2.53070073]

gradient= [-1.16104383e-04 -6.99903594e-05 1.86094742e-04] w = [-0.24477686 0.71407613 2.53070073] w\_new= [-0.24477802 0.71407543 2.53070259]

gradient= [-1.15970935e-04 -6.99156347e-05 1.85886569e-04] w = [-0.24477802 0.71407543 2.53070259] w\_new= [-0.24477918 0.71407473 2.53070445]

gradient= [-1.15837642e-04 -6.98409884e-05 1.85678630e-04] w = [-0.24477918 0.71407473 2.53070445] w\_new= [-0.24478034 0.71407403 2.5307063 ]

gradient= [-1.15704503e-04 -6.97664204e-05 1.85470923e-04] w = [-0.24478034 0.71407403 2.5307063 ] w\_new= [-0.24478149 0.71407334 2.53070816]

gradient= [-1.15571519e-04 -6.96919306e-05 1.85263449e-04] w = [-0.24478149 0.71407334 2.53070816] w\_new= [-0.24478265 0.71407264 2.53071001]

gradient= [-1.15438688e-04 -6.96175190e-05 1.85056207e-04] w = [-0.24478265 0.71407264 2.53071001] w\_new= [-0.2447838 0.71407194 2.53071186]

gradient= [-1.15306012e-04 -6.95431856e-05 1.84849197e-04] w = [-0.2447838 0.71407194 2.53071186] w\_new= [-0.24478496 0.71407125 2.53071371]

gradient= [-1.15173489e-04 -6.94689301e-05 1.84642419e-04] w = [-0.24478496 0.71407125 2.53071371] w\_new= [-0.24478611 0.71407055 2.53071556]

gradient= [-1.15041120e-04 -6.93947526e-05 1.84435873e-04] w = [-0.24478611 0.71407055 2.53071556] w\_new= [-0.24478726 0.71406986 2.5307174 ]

gradient= [-1.14908904e-04 -6.93206529e-05 1.84229557e-04] w = [-0.24478726 0.71406986 2.5307174 ] w\_new= [-0.24478841 0.71406917 2.53071924]

gradient= [-1.14776842e-04 -6.92466310e-05 1.84023473e-04] w = [-0.24478841 0.71406917 2.53071924] w\_new= [-0.24478956 0.71406847 2.53072108]

gradient= [-1.14644932e-04 -6.91726868e-05 1.83817619e-04] w = [-0.24478956 0.71406847 2.53072108] w\_new= [-0.2447907 0.71406778 2.53072292]

gradient= [-1.14513176e-04 -6.90988201e-05 1.83611996e-04] w = [-0.2447907 0.71406778 2.53072292] w\_new= [-0.24479185 0.71406709 2.53072476]

gradient= [-1.14381572e-04 -6.90250311e-05 1.83406603e-04] w = [-0.24479185 0.71406709 2.53072476] w\_new= [-0.24479299 0.7140664 2.53072659]

gradient= [-1.14250120e-04 -6.89513195e-05 1.83201439e-04] w = [-0.24479299 0.7140664 2.53072659] w\_new= [-0.24479413 0.71406571 2.53072842]

gradient= [-1.14118821e-04 -6.88776852e-05 1.82996506e-04] w = [-0.24479413 0.71406571 2.53072842] w\_new= [-0.24479527 0.71406502 2.53073025]

gradient= [-1.13987673e-04 -6.88041283e-05 1.82791802e-04] w = [-0.24479527 0.71406502 2.53073025] w\_new= [-0.24479641 0.71406433 2.53073208]

gradient= [-1.13856678e-04 -6.87306486e-05 1.82587327e-04] w = [-0.24479641 0.71406433 2.53073208] w\_new= [-0.24479755 0.71406365 2.53073391]

gradient= [-1.13725835e-04 -6.86572460e-05 1.82383081e-04] w = [-0.24479755 0.71406365 2.53073391] w\_new= [-0.24479869 0.71406296 2.53073573]

gradient= [-1.13595143e-04 -6.85839205e-05 1.82179063e-04] w = [-0.24479869 0.71406296 2.53073573] w\_new= [-0.24479983 0.71406227 2.53073755]

gradient= [-1.13464602e-04 -6.85106719e-05 1.81975274e-04] w = [-0.24479983 0.71406227 2.53073755] w\_new= [-0.24480096 0.71406159 2.53073937]

gradient= [-1.13334213e-04 -6.84375003e-05 1.81771713e-04] w = [-0.24480096 0.71406159 2.53073937] w\_new= [-0.24480209 0.7140609 2.53074119]

gradient= [-1.13203975e-04 -6.83644055e-05 1.81568380e-04] w = [-0.24480209 0.7140609 2.53074119] w\_new= [-0.24480323 0.71406022 2.53074301]

gradient= [-1.13073888e-04 -6.82913874e-05 1.81365275e-04] w = [-0.24480323 0.71406022 2.53074301] w\_new= [-0.24480436 0.71405954 2.53074482]

gradient= [-1.12943951e-04 -6.82184460e-05 1.81162397e-04] w = [-0.24480436 0.71405954 2.53074482] w\_new= [-0.24480549 0.71405886 2.53074663]

gradient= [-1.12814165e-04 -6.81455811e-05 1.80959746e-04] w = [-0.24480549 0.71405886 2.53074663] w\_new= [-0.24480661 0.71405817 2.53074844]

gradient= [-1.12684529e-04 -6.80727928e-05 1.80757322e-04] w = [-0.24480661 0.71405817 2.53074844] w\_new= [-0.24480774 0.71405749 2.53075025]

gradient= [-1.12555044e-04 -6.80000809e-05 1.80555125e-04] w = [-0.24480774 0.71405749 2.53075025] w\_new= [-0.24480887 0.71405681 2.53075205]

gradient= [-1.12425708e-04 -6.79274454e-05 1.80353153e-04] w = [-0.24480887 0.71405681 2.53075205] w\_new= [-0.24480999 0.71405613 2.53075386]

gradient= [-1.12296522e-04 -6.78548862e-05 1.80151408e-04] w = [-0.24480999 0.71405613 2.53075386] w\_new= [-0.24481111 0.71405546 2.53075566]

gradient= [-1.12167486e-04 -6.77824031e-05 1.79949889e-04] w = [-0.24481111 0.71405546 2.53075566] w\_new= [-0.24481224 0.71405478 2.53075746]

gradient= [-1.12038600e-04 -6.77099961e-05 1.79748596e-04] w = [-0.24481224 0.71405478 2.53075746] w\_new= [-0.24481336 0.7140541 2.53075926]

gradient= [-1.11909862e-04 -6.76376652e-05 1.79547527e-04] w = [-0.24481336 0.7140541 2.53075926] w\_new= [-0.24481448 0.71405342 2.53076105]

gradient= [-1.11781274e-04 -6.75654103e-05 1.79346684e-04] w = [-0.24481448 0.71405342 2.53076105] w\_new= [-0.24481559 0.71405275 2.53076284]

gradient= [-1.11652835e-04 -6.74932312e-05 1.79146066e-04] w = [-0.24481559 0.71405275 2.53076284] w\_new= [-0.24481671 0.71405207 2.53076464]

gradient= [-1.11524544e-04 -6.74211280e-05 1.78945672e-04] w = [-0.24481671 0.71405207 2.53076464] w\_new= [-0.24481782 0.7140514 2.53076642]

gradient= [-1.11396402e-04 -6.73491004e-05 1.78745503e-04] w = [-0.24481782 0.7140514 2.53076642] w\_new= [-0.24481894 0.71405073 2.53076821]

gradient= [-1.11268409e-04 -6.72771485e-05 1.78545557e-04] w = [-0.24481894 0.71405073 2.53076821] w\_new= [-0.24482005 0.71405005 2.53077 ]

gradient= [-1.11140563e-04 -6.72052722e-05 1.78345836e-04] w = [-0.24482005 0.71405005 2.53077 ] w\_new= [-0.24482116 0.71404938 2.53077178]

gradient= [-1.11012866e-04 -6.71334714e-05 1.78146338e-04] w = [-0.24482116 0.71404938 2.53077178] w\_new= [-0.24482227 0.71404871 2.53077356]

gradient= [-1.10885317e-04 -6.70617460e-05 1.77947063e-04] w = [-0.24482227 0.71404871 2.53077356] w\_new= [-0.24482338 0.71404804 2.53077534]

gradient= [-1.10757915e-04 -6.69900960e-05 1.77748011e-04] w = [-0.24482338 0.71404804 2.53077534] w\_new= [-0.24482449 0.71404737 2.53077712]

gradient= [-1.10630661e-04 -6.69185212e-05 1.77549182e-04] w = [-0.24482449 0.71404737 2.53077712] w\_new= [-0.2448256 0.7140467 2.5307789]

gradient= [-1.10503555e-04 -6.68470216e-05 1.77350576e-04] w = [-0.2448256 0.7140467 2.5307789] w\_new= [-0.2448267 0.71404603 2.53078067]

gradient= [-1.10376595e-04 -6.67755971e-05 1.77152192e-04] w = [-0.2448267 0.71404603 2.53078067] w\_new= [-0.2448278 0.71404536 2.53078244]

gradient= [-1.10249783e-04 -6.67042476e-05 1.76954031e-04] w = [-0.2448278 0.71404536 2.53078244] w\_new= [-0.24482891 0.7140447 2.53078421]

gradient= [-1.10123117e-04 -6.66329731e-05 1.76756090e-04] w = [-0.24482891 0.7140447 2.53078421] w\_new= [-0.24483001 0.71404403 2.53078598]

gradient= [-1.09996599e-04 -6.65617735e-05 1.76558372e-04] w = [-0.24483001 0.71404403 2.53078598] w\_new= [-0.24483111 0.71404337 2.53078774]

gradient= [-1.09870226e-04 -6.64906486e-05 1.76360875e-04] w = [-0.24483111 0.71404337 2.53078774] w\_new= [-0.24483221 0.7140427 2.53078951]

gradient= [-1.09744000e-04 -6.64195985e-05 1.76163599e-04] w = [-0.24483221 0.7140427 2.53078951] w\_new= [-0.2448333 0.71404204 2.53079127]

gradient= [-1.09617921e-04 -6.63486231e-05 1.75966544e-04] w = [-0.2448333 0.71404204 2.53079127] w\_new= [-0.2448344 0.71404137 2.53079303]

gradient= [-1.09491987e-04 -6.62777222e-05 1.75769709e-04] w = [-0.2448344 0.71404137 2.53079303] w\_new= [-0.2448355 0.71404071 2.53079479]

gradient= [-1.09366199e-04 -6.62068958e-05 1.75573095e-04] w = [-0.2448355 0.71404071 2.53079479] w\_new= [-0.24483659 0.71404005 2.53079654]

gradient= [-1.09240557e-04 -6.61361438e-05 1.75376700e-04] w = [-0.24483659 0.71404005 2.53079654] w\_new= [-0.24483768 0.71403939 2.5307983 ]

gradient= [-1.09115060e-04 -6.60654662e-05 1.75180526e-04] w = [-0.24483768 0.71403939 2.5307983 ] w\_new= [-0.24483877 0.71403873 2.53080005]

gradient= [-1.08989708e-04 -6.59948628e-05 1.74984571e-04] w = [-0.24483877 0.71403873 2.53080005] w\_new= [-0.24483986 0.71403807 2.5308018 ]

gradient= [-1.08864502e-04 -6.59243337e-05 1.74788836e-04] w = [-0.24483986 0.71403807 2.5308018 ] w\_new= [-0.24484095 0.71403741 2.53080354]

gradient= [-1.08739441e-04 -6.58538786e-05 1.74593319e-04] w = [-0.24484095 0.71403741 2.53080354] w\_new= [-0.24484204 0.71403675 2.53080529]

gradient= [-1.08614524e-04 -6.57834976e-05 1.74398022e-04] w = [-0.24484204 0.71403675 2.53080529] w\_new= [-0.24484312 0.71403609 2.53080703]

gradient= [-1.08489753e-04 -6.57131905e-05 1.74202943e-04] w = [-0.24484312 0.71403609 2.53080703] w\_new= [-0.24484421 0.71403543 2.53080878]

gradient= [-1.08365125e-04 -6.56429573e-05 1.74008083e-04] w = [-0.24484421 0.71403543 2.53080878] w\_new= [-0.24484529 0.71403478 2.53081052]

gradient= [-1.08240642e-04 -6.55727980e-05 1.73813440e-04] w = [-0.24484529 0.71403478 2.53081052] w\_new= [-0.24484638 0.71403412 2.53081225]

gradient= [-1.08116303e-04 -6.55027124e-05 1.73619016e-04] w = [-0.24484638 0.71403412 2.53081225] w\_new= [-0.24484746 0.71403347 2.53081399]

gradient= [-1.07992108e-04 -6.54327004e-05 1.73424809e-04] w = [-0.24484746 0.71403347 2.53081399] w\_new= [-0.24484854 0.71403281 2.53081573]

gradient= [-1.07868057e-04 -6.53627620e-05 1.73230819e-04] w = [-0.24484854 0.71403281 2.53081573] w\_new= [-0.24484962 0.71403216 2.53081746]

gradient= [-1.07744150e-04 -6.52928971e-05 1.73037047e-04] w = [-0.24484962 0.71403216 2.53081746] w\_new= [-0.24485069 0.71403151 2.53081919]

gradient= [-1.07620386e-04 -6.52231057e-05 1.72843491e-04] w = [-0.24485069 0.71403151 2.53081919] w\_new= [-0.24485177 0.71403085 2.53082092]

gradient= [-1.07496765e-04 -6.51533876e-05 1.72650153e-04] w = [-0.24485177 0.71403085 2.53082092] w\_new= [-0.24485284 0.7140302 2.53082264]

gradient= [-1.07373287e-04 -6.50837428e-05 1.72457030e-04] w = [-0.24485284 0.7140302 2.53082264] w\_new= [-0.24485392 0.71402955 2.53082437]

gradient= [-1.07249953e-04 -6.50141711e-05 1.72264124e-04] w = [-0.24485392 0.71402955 2.53082437] w\_new= [-0.24485499 0.7140289 2.53082609]

gradient= [-1.07126761e-04 -6.49446727e-05 1.72071434e-04] w = [-0.24485499 0.7140289 2.53082609] w\_new= [-0.24485606 0.71402825 2.53082781]

gradient= [-1.07003712e-04 -6.48752473e-05 1.71878959e-04] w = [-0.24485606 0.71402825 2.53082781] w\_new= [-0.24485713 0.7140276 2.53082953]

gradient= [-1.06880805e-04 -6.48058948e-05 1.71686700e-04] w = [-0.24485713 0.7140276 2.53082953] w\_new= [-0.2448582 0.71402695 2.53083125]

gradient= [-1.06758041e-04 -6.47366153e-05 1.71494656e-04] w = [-0.2448582 0.71402695 2.53083125] w\_new= [-0.24485927 0.71402631 2.53083296]

gradient= [-1.06635418e-04 -6.46674086e-05 1.71302827e-04] w = [-0.24485927 0.71402631 2.53083296] w\_new= [-0.24486033 0.71402566 2.53083467]

gradient= [-1.06512938e-04 -6.45982746e-05 1.71111212e-04] w = [-0.24486033 0.71402566 2.53083467] w\_new= [-0.2448614 0.71402501 2.53083639]

gradient= [-1.06390599e-04 -6.45292134e-05 1.70919813e-04] w = [-0.2448614 0.71402501 2.53083639] w\_new= [-0.24486246 0.71402437 2.53083809]

gradient= [-1.06268402e-04 -6.44602247e-05 1.70728627e-04] w = [-0.24486246 0.71402437 2.53083809] w\_new= [-0.24486353 0.71402372 2.5308398 ]

gradient= [-1.06146347e-04 -6.43913086e-05 1.70537655e-04] w = [-0.24486353 0.71402372 2.5308398 ] w\_new= [-0.24486459 0.71402308 2.53084151]

gradient= [-1.06024433e-04 -6.43224649e-05 1.70346898e-04] w = [-0.24486459 0.71402308 2.53084151] w\_new= [-0.24486565 0.71402244 2.53084321]

gradient= [-1.05902660e-04 -6.42536937e-05 1.70156353e-04] w = [-0.24486565 0.71402244 2.53084321] w\_new= [-0.24486671 0.71402179 2.53084491]

gradient= [-1.05781028e-04 -6.41849947e-05 1.69966022e-04] w = [-0.24486671 0.71402179 2.53084491] w\_new= [-0.24486776 0.71402115 2.53084661]

gradient= [-1.05659536e-04 -6.41163680e-05 1.69775904e-04] w = [-0.24486776 0.71402115 2.53084661] w\_new= [-0.24486882 0.71402051 2.53084831]

gradient= [-1.05538186e-04 -6.40478134e-05 1.69585999e-04] w = [-0.24486882 0.71402051 2.53084831] w\_new= [-0.24486988 0.71401987 2.53085001]

gradient= [-1.05416976e-04 -6.39793309e-05 1.69396307e-04] w = [-0.24486988 0.71401987 2.53085001] w\_new= [-0.24487093 0.71401923 2.5308517 ]

gradient= [-1.05295906e-04 -6.39109204e-05 1.69206826e-04] w = [-0.24487093 0.71401923 2.5308517 ] w\_new= [-0.24487198 0.71401859 2.53085339]

gradient= [-1.05174976e-04 -6.38425819e-05 1.69017558e-04] w = [-0.24487198 0.71401859 2.53085339] w\_new= [-0.24487304 0.71401795 2.53085508]

gradient= [-1.05054186e-04 -6.37743152e-05 1.68828502e-04] w = [-0.24487304 0.71401795 2.53085508] w\_new= [-0.24487409 0.71401732 2.53085677]

gradient= [-1.04933537e-04 -6.37061204e-05 1.68639657e-04] w = [-0.24487409 0.71401732 2.53085677] w\_new= [-0.24487514 0.71401668 2.53085846]

gradient= [-1.04813026e-04 -6.36379972e-05 1.68451024e-04] w = [-0.24487514 0.71401668 2.53085846] w\_new= [-0.24487618 0.71401604 2.53086014]

gradient= [-1.04692656e-04 -6.35699457e-05 1.68262601e-04] w = [-0.24487618 0.71401604 2.53086014] w\_new= [-0.24487723 0.71401541 2.53086182]

gradient= [-1.04572424e-04 -6.35019657e-05 1.68074390e-04] w = [-0.24487723 0.71401541 2.53086182] w\_new= [-0.24487828 0.71401477 2.5308635 ]

gradient= [-1.04452332e-04 -6.34340573e-05 1.67886389e-04] w = [-0.24487828 0.71401477 2.5308635 ] w\_new= [-0.24487932 0.71401414 2.53086518]

gradient= [-1.04332379e-04 -6.33662203e-05 1.67698599e-04] w = [-0.24487932 0.71401414 2.53086518] w\_new= [-0.24488036 0.7140135 2.53086686]

gradient= [-1.04212564e-04 -6.32984546e-05 1.67511019e-04] w = [-0.24488036 0.7140135 2.53086686] w\_new= [-0.24488141 0.71401287 2.53086854]

gradient= [-1.04092889e-04 -6.32307602e-05 1.67323649e-04] w = [-0.24488141 0.71401287 2.53086854] w\_new= [-0.24488245 0.71401224 2.53087021]

gradient= [-1.03973351e-04 -6.31631370e-05 1.67136488e-04] w = [-0.24488245 0.71401224 2.53087021] w\_new= [-0.24488349 0.71401161 2.53087188]

gradient= [-1.03853953e-04 -6.30955849e-05 1.66949538e-04] w = [-0.24488349 0.71401161 2.53087188] w\_new= [-0.24488453 0.71401098 2.53087355]

gradient= [-1.03734692e-04 -6.30281039e-05 1.66762796e-04] w = [-0.24488453 0.71401098 2.53087355] w\_new= [-0.24488556 0.71401035 2.53087522]

gradient= [-1.03615569e-04 -6.29606939e-05 1.66576263e-04] w = [-0.24488556 0.71401035 2.53087522] w\_new= [-0.2448866 0.71400972 2.53087688]

gradient= [-1.03496585e-04 -6.28933548e-05 1.66389939e-04] w = [-0.2448866 0.71400972 2.53087688] w\_new= [-0.24488763 0.71400909 2.53087855]

gradient= [-1.03377738e-04 -6.28260865e-05 1.66203824e-04] w = [-0.24488763 0.71400909 2.53087855] w\_new= [-0.24488867 0.71400846 2.53088021]

gradient= [-1.03259028e-04 -6.27588890e-05 1.66017917e-04] w = [-0.24488867 0.71400846 2.53088021] w\_new= [-0.2448897 0.71400783 2.53088187]

gradient= [-1.03140456e-04 -6.26917622e-05 1.65832218e-04] w = [-0.2448897 0.71400783 2.53088187] w\_new= [-0.24489073 0.7140072 2.53088353]

gradient= [-1.03022021e-04 -6.26247060e-05 1.65646727e-04] w = [-0.24489073 0.7140072 2.53088353] w\_new= [-0.24489176 0.71400658 2.53088518]

gradient= [-1.02903723e-04 -6.25577204e-05 1.65461444e-04] w = [-0.24489176 0.71400658 2.53088518] w\_new= [-0.24489279 0.71400595 2.53088684]

gradient= [-1.02785562e-04 -6.24908052e-05 1.65276368e-04] w = [-0.24489279 0.71400595 2.53088684] w\_new= [-0.24489382 0.71400533 2.53088849]

gradient= [-1.02667538e-04 -6.24239605e-05 1.65091499e-04] w = [-0.24489382 0.71400533 2.53088849] w\_new= [-0.24489485 0.7140047 2.53089014]

gradient= [-1.02549651e-04 -6.23571860e-05 1.64906837e-04] w = [-0.24489485 0.7140047 2.53089014] w\_new= [-0.24489587 0.71400408 2.53089179]

gradient= [-1.02431899e-04 -6.22904819e-05 1.64722381e-04] w = [-0.24489587 0.71400408 2.53089179] w\_new= [-0.2448969 0.71400346 2.53089344]

gradient= [-1.02314285e-04 -6.22238479e-05 1.64538132e-04] w = [-0.2448969 0.71400346 2.53089344] w\_new= [-0.24489792 0.71400283 2.53089508]

gradient= [-1.02196806e-04 -6.21572840e-05 1.64354090e-04] w = [-0.24489792 0.71400283 2.53089508] w\_new= [-0.24489894 0.71400221 2.53089673]

gradient= [-1.02079463e-04 -6.20907902e-05 1.64170253e-04] w = [-0.24489894 0.71400221 2.53089673] w\_new= [-0.24489996 0.71400159 2.53089837]

gradient= [-1.01962256e-04 -6.20243663e-05 1.63986622e-04] w = [-0.24489996 0.71400159 2.53089837] w\_new= [-0.24490098 0.71400097 2.53090001]

gradient= [-1.01845185e-04 -6.19580123e-05 1.63803197e-04] w = [-0.24490098 0.71400097 2.53090001] w\_new= [-0.244902 0.71400035 2.53090165]

gradient= [-1.01728249e-04 -6.18917282e-05 1.63619977e-04] w = [-0.244902 0.71400035 2.53090165] w\_new= [-0.24490302 0.71399973 2.53090328]

gradient= [-1.01611448e-04 -6.18255138e-05 1.63436962e-04] w = [-0.24490302 0.71399973 2.53090328] w\_new= [-0.24490403 0.71399912 2.53090492]

gradient= [-1.01494783e-04 -6.17593691e-05 1.63254152e-04] w = [-0.24490403 0.71399912 2.53090492] w\_new= [-0.24490505 0.7139985 2.53090655]

gradient= [-1.01378252e-04 -6.16932940e-05 1.63071546e-04] w = [-0.24490505 0.7139985 2.53090655] w\_new= [-0.24490606 0.71399788 2.53090818]

gradient= [-1.01261856e-04 -6.16272885e-05 1.62889145e-04] w = [-0.24490606 0.71399788 2.53090818] w\_new= [-0.24490707 0.71399726 2.53090981]

gradient= [-1.01145595e-04 -6.15613524e-05 1.62706948e-04] w = [-0.24490707 0.71399726 2.53090981] w\_new= [-0.24490809 0.71399665 2.53091144]

gradient= [-1.01029469e-04 -6.14954857e-05 1.62524955e-04] w = [-0.24490809 0.71399665 2.53091144] w\_new= [-0.2449091 0.71399603 2.53091306]

gradient= [-1.00913477e-04 -6.14296883e-05 1.62343165e-04] w = [-0.2449091 0.71399603 2.53091306] w\_new= [-0.2449101 0.71399542 2.53091469]

gradient= [-1.00797619e-04 -6.13639602e-05 1.62161579e-04] w = [-0.2449101 0.71399542 2.53091469] w\_new= [-0.24491111 0.71399481 2.53091631]

gradient= [-1.00681895e-04 -6.12983013e-05 1.61980197e-04] w = [-0.24491111 0.71399481 2.53091631] w\_new= [-0.24491212 0.71399419 2.53091793]

gradient= [-1.00566305e-04 -6.12327115e-05 1.61799017e-04] w = [-0.24491212 0.71399419 2.53091793] w\_new= [-0.24491313 0.71399358 2.53091954]

gradient= [-1.00450849e-04 -6.11671907e-05 1.61618040e-04] w = [-0.24491313 0.71399358 2.53091954] w\_new= [-0.24491413 0.71399297 2.53092116]

gradient= [-1.00335527e-04 -6.11017389e-05 1.61437266e-04] w = [-0.24491413 0.71399297 2.53092116] w\_new= [-0.24491513 0.71399236 2.53092278]

gradient= [-1.00220338e-04 -6.10363560e-05 1.61256694e-04] w = [-0.24491513 0.71399236 2.53092278] w\_new= [-0.24491614 0.71399175 2.53092439]

gradient= [-1.00105282e-04 -6.09710420e-05 1.61076324e-04] w = [-0.24491614 0.71399175 2.53092439] w\_new= [-0.24491714 0.71399114 2.530926 ]

gradient= [-9.99903590e-05 -6.09057966e-05 1.60896156e-04] w = [-0.24491714 0.71399114 2.530926 ] w\_new= [-0.24491814 0.71399053 2.53092761]

gradient= [-9.98755692e-05 -6.08406200e-05 1.60716189e-04] w = [-0.24491814 0.71399053 2.53092761] w\_new= [-0.24491913 0.71398992 2.53092921]

gradient= [-9.97609122e-05 -6.07755120e-05 1.60536424e-04] w = [-0.24491913 0.71398992 2.53092921] w\_new= [-0.24492013 0.71398931 2.53093082]

gradient= [-9.96463878e-05 -6.07104725e-05 1.60356860e-04] w = [-0.24492013 0.71398931 2.53093082] w\_new= [-0.24492113 0.71398871 2.53093242]

gradient= [-9.95319960e-05 -6.06455015e-05 1.60177497e-04] w = [-0.24492113 0.71398871 2.53093242] w\_new= [-0.24492212 0.7139881 2.53093403]

gradient= [-9.94177365e-05 -6.05805989e-05 1.59998335e-04] w = [-0.24492212 0.7139881 2.53093403] w\_new= [-0.24492312 0.71398749 2.53093563]

gradient= [-9.93036091e-05 -6.05157647e-05 1.59819374e-04] w = [-0.24492312 0.71398749 2.53093563] w\_new= [-0.24492411 0.71398689 2.53093722]

gradient= [-9.91896138e-05 -6.04509987e-05 1.59640613e-04] w = [-0.24492411 0.71398689 2.53093722] w\_new= [-0.2449251 0.71398628 2.53093882]

gradient= [-9.90757504e-05 -6.03863009e-05 1.59462051e-04] w = [-0.2449251 0.71398628 2.53093882] w\_new= [-0.24492609 0.71398568 2.53094041]

gradient= [-9.89620187e-05 -6.03216712e-05 1.59283690e-04] w = [-0.24492609 0.71398568 2.53094041] w\_new= [-0.24492708 0.71398508 2.53094201]

gradient= [-9.88484186e-05 -6.02571096e-05 1.59105528e-04] w = [-0.24492708 0.71398508 2.53094201] w\_new= [-0.24492807 0.71398447 2.5309436 ]

gradient= [-9.87349499e-05 -6.01926159e-05 1.58927566e-04] w = [-0.24492807 0.71398447 2.5309436 ] w\_new= [-0.24492906 0.71398387 2.53094519]

gradient= [-9.86216124e-05 -6.01281902e-05 1.58749803e-04] w = [-0.24492906 0.71398387 2.53094519] w\_new= [-0.24493005 0.71398327 2.53094678]

gradient= [-9.85084061e-05 -6.00638323e-05 1.58572238e-04] w = [-0.24493005 0.71398327 2.53094678] w\_new= [-0.24493103 0.71398267 2.53094836]

gradient= [-9.83953307e-05 -5.99995422e-05 1.58394873e-04] w = [-0.24493103 0.71398267 2.53094836] w\_new= [-0.24493201 0.71398207 2.53094994]

gradient= [-9.82823861e-05 -5.99353198e-05 1.58217706e-04] w = [-0.24493201 0.71398207 2.53094994] w\_new= [-0.244933 0.71398147 2.53095153]

gradient= [-9.81695722e-05 -5.98711650e-05 1.58040737e-04] w = [-0.244933 0.71398147 2.53095153] w\_new= [-0.24493398 0.71398087 2.53095311]

gradient= [-9.80568888e-05 -5.98070778e-05 1.57863967e-04] w = [-0.24493398 0.71398087 2.53095311] w\_new= [-0.24493496 0.71398027 2.53095469]

gradient= [-9.79443357e-05 -5.97430581e-05 1.57687394e-04] w = [-0.24493496 0.71398027 2.53095469] w\_new= [-0.24493594 0.71397968 2.53095626]

gradient= [-9.78319127e-05 -5.96791058e-05 1.57511019e-04] w = [-0.24493594 0.71397968 2.53095626] w\_new= [-0.24493692 0.71397908 2.53095784]

gradient= [-9.77196199e-05 -5.96152209e-05 1.57334841e-04] w = [-0.24493692 0.71397908 2.53095784] w\_new= [-0.24493789 0.71397848 2.53095941]

gradient= [-9.76074569e-05 -5.95514032e-05 1.57158860e-04] w = [-0.24493789 0.71397848 2.53095941] w\_new= [-0.24493887 0.71397789 2.53096098]

gradient= [-9.74954236e-05 -5.94876528e-05 1.56983076e-04] w = [-0.24493887 0.71397789 2.53096098] w\_new= [-0.24493985 0.71397729 2.53096255]

gradient= [-9.73835200e-05 -5.94239695e-05 1.56807490e-04] w = [-0.24493985 0.71397729 2.53096255] w\_new= [-0.24494082 0.7139767 2.53096412]

gradient= [-9.72717458e-05 -5.93603533e-05 1.56632099e-04] w = [-0.24494082 0.7139767 2.53096412] w\_new= [-0.24494179 0.71397611 2.53096569]

gradient= [-9.71601008e-05 -5.92968041e-05 1.56456905e-04] w = [-0.24494179 0.71397611 2.53096569] w\_new= [-0.24494276 0.71397551 2.53096725]

gradient= [-9.70485850e-05 -5.92333219e-05 1.56281907e-04] w = [-0.24494276 0.71397551 2.53096725] w\_new= [-0.24494373 0.71397492 2.53096881]

gradient= [-9.69371982e-05 -5.91699065e-05 1.56107105e-04] w = [-0.24494373 0.71397492 2.53096881] w\_new= [-0.2449447 0.71397433 2.53097038]

gradient= [-9.68259401e-05 -5.91065579e-05 1.55932498e-04] w = [-0.2449447 0.71397433 2.53097038] w\_new= [-0.24494567 0.71397374 2.53097194]

gradient= [-9.67148108e-05 -5.90432761e-05 1.55758087e-04] w = [-0.24494567 0.71397374 2.53097194] w\_new= [-0.24494664 0.71397315 2.53097349]

gradient= [-9.66038100e-05 -5.89800609e-05 1.55583871e-04] w = [-0.24494664 0.71397315 2.53097349] w\_new= [-0.24494761 0.71397256 2.53097505]

gradient= [-9.64929376e-05 -5.89169124e-05 1.55409850e-04] w = [-0.24494761 0.71397256 2.53097505] w\_new= [-0.24494857 0.71397197 2.5309766 ]

gradient= [-9.63821934e-05 -5.88538303e-05 1.55236024e-04] w = [-0.24494857 0.71397197 2.5309766 ] w\_new= [-0.24494953 0.71397138 2.53097816]

gradient= [-9.62715773e-05 -5.87908147e-05 1.55062392e-04] w = [-0.24494953 0.71397138 2.53097816] w\_new= [-0.2449505 0.71397079 2.53097971]

gradient= [-9.61610891e-05 -5.87278655e-05 1.54888955e-04] w = [-0.2449505 0.71397079 2.53097971] w\_new= [-0.24495146 0.7139702 2.53098125]

gradient= [-9.60507287e-05 -5.86649826e-05 1.54715711e-04] w = [-0.24495146 0.7139702 2.53098125] w\_new= [-0.24495242 0.71396962 2.5309828 ]

gradient= [-9.59404959e-05 -5.86021660e-05 1.54542662e-04] w = [-0.24495242 0.71396962 2.5309828 ] w\_new= [-0.24495338 0.71396903 2.53098435]

gradient= [-9.58303906e-05 -5.85394156e-05 1.54369806e-04] w = [-0.24495338 0.71396903 2.53098435] w\_new= [-0.24495434 0.71396845 2.53098589]

gradient= [-9.57204126e-05 -5.84767313e-05 1.54197144e-04] w = [-0.24495434 0.71396845 2.53098589] w\_new= [-0.24495529 0.71396786 2.53098743]

gradient= [-9.56105618e-05 -5.84141130e-05 1.54024675e-04] w = [-0.24495529 0.71396786 2.53098743] w\_new= [-0.24495625 0.71396728 2.53098897]

gradient= [-9.55008380e-05 -5.83515608e-05 1.53852399e-04] w = [-0.24495625 0.71396728 2.53098897] w\_new= [-0.24495721 0.71396669 2.53099051]

gradient= [-9.53912412e-05 -5.82890744e-05 1.53680316e-04] w = [-0.24495721 0.71396669 2.53099051] w\_new= [-0.24495816 0.71396611 2.53099205]

gradient= [-9.52817710e-05 -5.82266539e-05 1.53508425e-04] w = [-0.24495816 0.71396611 2.53099205] w\_new= [-0.24495911 0.71396553 2.53099358]

gradient= [-9.51724275e-05 -5.81642991e-05 1.53336727e-04] w = [-0.24495911 0.71396553 2.53099358] w\_new= [-0.24496006 0.71396495 2.53099512]

gradient= [-9.50632104e-05 -5.81020101e-05 1.53165221e-04] w = [-0.24496006 0.71396495 2.53099512] w\_new= [-0.24496101 0.71396437 2.53099665]

gradient= [-9.49541196e-05 -5.80397867e-05 1.52993906e-04] w = [-0.24496101 0.71396437 2.53099665] w\_new= [-0.24496196 0.71396379 2.53099818]

gradient= [-9.48451549e-05 -5.79776289e-05 1.52822784e-04] w = [-0.24496196 0.71396379 2.53099818] w\_new= [-0.24496291 0.71396321 2.53099971]

gradient= [-9.47363163e-05 -5.79155366e-05 1.52651853e-04] w = [-0.24496291 0.71396321 2.53099971] w\_new= [-0.24496386 0.71396263 2.53100123]

gradient= [-9.46276035e-05 -5.78535098e-05 1.52481113e-04] w = [-0.24496386 0.71396263 2.53100123] w\_new= [-0.24496481 0.71396205 2.53100276]

gradient= [-9.45190164e-05 -5.77915483e-05 1.52310565e-04] w = [-0.24496481 0.71396205 2.53100276] w\_new= [-0.24496575 0.71396147 2.53100428]

gradient= [-9.44105548e-05 -5.77296521e-05 1.52140207e-04] w = [-0.24496575 0.71396147 2.53100428] w\_new= [-0.2449667 0.71396089 2.5310058 ]

gradient= [-9.43022187e-05 -5.76678212e-05 1.51970040e-04] w = [-0.2449667 0.71396089 2.5310058 ] w\_new= [-0.24496764 0.71396032 2.53100732]

gradient= [-9.41940078e-05 -5.76060554e-05 1.51800063e-04] w = [-0.24496764 0.71396032 2.53100732] w\_new= [-0.24496858 0.71395974 2.53100884]

gradient= [-9.40859221e-05 -5.75443547e-05 1.51630277e-04] w = [-0.24496858 0.71395974 2.53100884] w\_new= [-0.24496952 0.71395916 2.53101036]

gradient= [-9.39779613e-05 -5.74827191e-05 1.51460680e-04] w = [-0.24496952 0.71395916 2.53101036] w\_new= [-0.24497046 0.71395859 2.53101187]

gradient= [-9.38701254e-05 -5.74211485e-05 1.51291274e-04] w = [-0.24497046 0.71395859 2.53101187] w\_new= [-0.2449714 0.71395802 2.53101338]

gradient= [-9.37624141e-05 -5.73596427e-05 1.51122057e-04] w = [-0.2449714 0.71395802 2.53101338] w\_new= [-0.24497234 0.71395744 2.5310149 ]

gradient= [-9.36548274e-05 -5.72982018e-05 1.50953029e-04] w = [-0.24497234 0.71395744 2.5310149 ] w\_new= [-0.24497327 0.71395687 2.5310164 ]

gradient= [-9.35473650e-05 -5.72368256e-05 1.50784191e-04] w = [-0.24497327 0.71395687 2.5310164 ] w\_new= [-0.24497421 0.7139563 2.53101791]

gradient= [-9.34400269e-05 -5.71755142e-05 1.50615541e-04] w = [-0.24497421 0.7139563 2.53101791] w\_new= [-0.24497514 0.71395572 2.53101942]

gradient= [-9.33328129e-05 -5.71142674e-05 1.50447080e-04] w = [-0.24497514 0.71395572 2.53101942] w\_new= [-0.24497608 0.71395515 2.53102092]

gradient= [-9.32257229e-05 -5.70530852e-05 1.50278808e-04] w = [-0.24497608 0.71395515 2.53102092] w\_new= [-0.24497701 0.71395458 2.53102243]

gradient= [-9.31187567e-05 -5.69919674e-05 1.50110724e-04] w = [-0.24497701 0.71395458 2.53102243] w\_new= [-0.24497794 0.71395401 2.53102393]

gradient= [-9.30119141e-05 -5.69309141e-05 1.49942828e-04] w = [-0.24497794 0.71395401 2.53102393] w\_new= [-0.24497887 0.71395344 2.53102543]

gradient= [-9.29051951e-05 -5.68699252e-05 1.49775120e-04] w = [-0.24497887 0.71395344 2.53102543] w\_new= [-0.2449798 0.71395288 2.53102692]

gradient= [-9.27985994e-05 -5.68090006e-05 1.49607600e-04] w = [-0.2449798 0.71395288 2.53102692] w\_new= [-0.24498073 0.71395231 2.53102842]

gradient= [-9.26921270e-05 -5.67481402e-05 1.49440267e-04] w = [-0.24498073 0.71395231 2.53102842] w\_new= [-0.24498165 0.71395174 2.53102991]

gradient= [-9.25857776e-05 -5.66873440e-05 1.49273122e-04] w = [-0.24498165 0.71395174 2.53102991] w\_new= [-0.24498258 0.71395117 2.53103141]

gradient= [-9.24795512e-05 -5.66266119e-05 1.49106163e-04] w = [-0.24498258 0.71395117 2.53103141] w\_new= [-0.2449835 0.71395061 2.5310329 ]

gradient= [-9.23734476e-05 -5.65659438e-05 1.48939391e-04] w = [-0.2449835 0.71395061 2.5310329 ] w\_new= [-0.24498443 0.71395004 2.53103439]

gradient= [-9.22674667e-05 -5.65053397e-05 1.48772806e-04] w = [-0.24498443 0.71395004 2.53103439] w\_new= [-0.24498535 0.71394948 2.53103588]

gradient= [-9.21616083e-05 -5.64447995e-05 1.48606408e-04] w = [-0.24498535 0.71394948 2.53103588] w\_new= [-0.24498627 0.71394891 2.53103736]

gradient= [-9.20558722e-05 -5.63843232e-05 1.48440195e-04] w = [-0.24498627 0.71394891 2.53103736] w\_new= [-0.24498719 0.71394835 2.53103885]

gradient= [-9.19502584e-05 -5.63239106e-05 1.48274169e-04] w = [-0.24498719 0.71394835 2.53103885] w\_new= [-0.24498811 0.71394778 2.53104033]

gradient= [-9.18447667e-05 -5.62635618e-05 1.48108328e-04] w = [-0.24498811 0.71394778 2.53104033] w\_new= [-0.24498903 0.71394722 2.53104181]

gradient= [-9.17393969e-05 -5.62032765e-05 1.47942673e-04] w = [-0.24498903 0.71394722 2.53104181] w\_new= [-0.24498995 0.71394666 2.53104329]

gradient= [-9.16341489e-05 -5.61430549e-05 1.47777204e-04] w = [-0.24498995 0.71394666 2.53104329] w\_new= [-0.24499087 0.7139461 2.53104477]

gradient= [-9.15290225e-05 -5.60828968e-05 1.47611919e-04] w = [-0.24499087 0.7139461 2.53104477] w\_new= [-0.24499178 0.71394554 2.53104624]

gradient= [-9.14240177e-05 -5.60228021e-05 1.47446820e-04] w = [-0.24499178 0.71394554 2.53104624] w\_new= [-0.24499269 0.71394498 2.53104772]

gradient= [-9.13191343e-05 -5.59627708e-05 1.47281905e-04] w = [-0.24499269 0.71394498 2.53104772] w\_new= [-0.24499361 0.71394442 2.53104919]

gradient= [-9.12143721e-05 -5.59028028e-05 1.47117175e-04] w = [-0.24499361 0.71394442 2.53104919] w\_new= [-0.24499452 0.71394386 2.53105066]

gradient= [-9.11097310e-05 -5.58428981e-05 1.46952629e-04] w = [-0.24499452 0.71394386 2.53105066] w\_new= [-0.24499543 0.7139433 2.53105213]

gradient= [-9.10052108e-05 -5.57830566e-05 1.46788267e-04] w = [-0.24499543 0.7139433 2.53105213] w\_new= [-0.24499634 0.71394274 2.5310536 ]

gradient= [-9.09008115e-05 -5.57232781e-05 1.46624090e-04] w = [-0.24499634 0.71394274 2.5310536 ] w\_new= [-0.24499725 0.71394218 2.53105507]

gradient= [-9.07965328e-05 -5.56635628e-05 1.46460096e-04] w = [-0.24499725 0.71394218 2.53105507] w\_new= [-0.24499816 0.71394163 2.53105653]

gradient= [-9.06923747e-05 -5.56039104e-05 1.46296285e-04] w = [-0.24499816 0.71394163 2.53105653] w\_new= [-0.24499907 0.71394107 2.53105799]

gradient= [-9.05883369e-05 -5.55443210e-05 1.46132658e-04] w = [-0.24499907 0.71394107 2.53105799] w\_new= [-0.24499997 0.71394052 2.53105945]

gradient= [-9.04844194e-05 -5.54847944e-05 1.45969214e-04] w = [-0.24499997 0.71394052 2.53105945] w\_new= [-0.24500088 0.71393996 2.53106091]

gradient= [-9.03806220e-05 -5.54253306e-05 1.45805953e-04] w = [-0.24500088 0.71393996 2.53106091] w\_new= [-0.24500178 0.71393941 2.53106237]

gradient= [-9.02769445e-05 -5.53659295e-05 1.45642874e-04] w = [-0.24500178 0.71393941 2.53106237] w\_new= [-0.24500268 0.71393885 2.53106383]

gradient= [-9.01733869e-05 -5.53065911e-05 1.45479978e-04] w = [-0.24500268 0.71393885 2.53106383] w\_new= [-0.24500358 0.7139383 2.53106528]

gradient= [-9.00699490e-05 -5.52473153e-05 1.45317264e-04] w = [-0.24500358 0.7139383 2.53106528] w\_new= [-0.24500448 0.71393775 2.53106674]

gradient= [-8.99666306e-05 -5.51881021e-05 1.45154733e-04] w = [-0.24500448 0.71393775 2.53106674] w\_new= [-0.24500538 0.7139372 2.53106819]

gradient= [-8.98634316e-05 -5.51289513e-05 1.44992383e-04] w = [-0.24500538 0.7139372 2.53106819] w\_new= [-0.24500628 0.71393665 2.53106964]

gradient= [-8.97603519e-05 -5.50698629e-05 1.44830215e-04] w = [-0.24500628 0.71393665 2.53106964] w\_new= [-0.24500718 0.71393609 2.53107109]

gradient= [-8.96573914e-05 -5.50108369e-05 1.44668228e-04] w = [-0.24500718 0.71393609 2.53107109] w\_new= [-0.24500808 0.71393554 2.53107253]

gradient= [-8.95545498e-05 -5.49518732e-05 1.44506423e-04] w = [-0.24500808 0.71393554 2.53107253] w\_new= [-0.24500897 0.71393499 2.53107398]

gradient= [-8.94518270e-05 -5.48929716e-05 1.44344799e-04] w = [-0.24500897 0.71393499 2.53107398] w\_new= [-0.24500987 0.71393445 2.53107542]

gradient= [-8.93492230e-05 -5.48341323e-05 1.44183355e-04] w = [-0.24500987 0.71393445 2.53107542] w\_new= [-0.24501076 0.7139339 2.53107686]

gradient= [-8.92467376e-05 -5.47753550e-05 1.44022093e-04] w = [-0.24501076 0.7139339 2.53107686] w\_new= [-0.24501165 0.71393335 2.5310783 ]

gradient= [-8.91443705e-05 -5.47166397e-05 1.43861010e-04] w = [-0.24501165 0.71393335 2.5310783 ] w\_new= [-0.24501254 0.7139328 2.53107974]

gradient= [-8.90421218e-05 -5.46579864e-05 1.43700108e-04] w = [-0.24501254 0.7139328 2.53107974] w\_new= [-0.24501344 0.71393226 2.53108118]

gradient= [-8.89399913e-05 -5.45993950e-05 1.43539386e-04] w = [-0.24501344 0.71393226 2.53108118] w\_new= [-0.24501432 0.71393171 2.53108261]

gradient= [-8.88379787e-05 -5.45408654e-05 1.43378844e-04] w = [-0.24501432 0.71393171 2.53108261] w\_new= [-0.24501521 0.71393116 2.53108405]

gradient= [-8.87360841e-05 -5.44823976e-05 1.43218482e-04] w = [-0.24501521 0.71393116 2.53108405] w\_new= [-0.2450161 0.71393062 2.53108548]

gradient= [-8.86343072e-05 -5.44239914e-05 1.43058299e-04] w = [-0.2450161 0.71393062 2.53108548] w\_new= [-0.24501699 0.71393008 2.53108691]

gradient= [-8.85326479e-05 -5.43656470e-05 1.42898295e-04] w = [-0.24501699 0.71393008 2.53108691] w\_new= [-0.24501787 0.71392953 2.53108834]

gradient= [-8.84311061e-05 -5.43073641e-05 1.42738470e-04] w = [-0.24501787 0.71392953 2.53108834] w\_new= [-0.24501876 0.71392899 2.53108977]

gradient= [-8.83296816e-05 -5.42491427e-05 1.42578824e-04] w = [-0.24501876 0.71392899 2.53108977] w\_new= [-0.24501964 0.71392845 2.53109119]

gradient= [-8.82283743e-05 -5.41909827e-05 1.42419357e-04] w = [-0.24501964 0.71392845 2.53109119] w\_new= [-0.24502052 0.7139279 2.53109262]

gradient= [-8.81271840e-05 -5.41328842e-05 1.42260068e-04] w = [-0.24502052 0.7139279 2.53109262] w\_new= [-0.2450214 0.71392736 2.53109404]

gradient= [-8.80261107e-05 -5.40748470e-05 1.42100958e-04] w = [-0.2450214 0.71392736 2.53109404] w\_new= [-0.24502228 0.71392682 2.53109546]

gradient= [-8.79251542e-05 -5.40168710e-05 1.41942025e-04] w = [-0.24502228 0.71392682 2.53109546] w\_new= [-0.24502316 0.71392628 2.53109688]

gradient= [-8.78243143e-05 -5.39589562e-05 1.41783271e-04] w = [-0.24502316 0.71392628 2.53109688] w\_new= [-0.24502404 0.71392574 2.5310983 ]

gradient= [-8.77235910e-05 -5.39011026e-05 1.41624694e-04] w = [-0.24502404 0.71392574 2.5310983 ] w\_new= [-0.24502492 0.7139252 2.53109971]

gradient= [-8.76229840e-05 -5.38433100e-05 1.41466294e-04] w = [-0.24502492 0.7139252 2.53109971] w\_new= [-0.24502579 0.71392467 2.53110113]

gradient= [-8.75224933e-05 -5.37855785e-05 1.41308072e-04] w = [-0.24502579 0.71392467 2.53110113] w\_new= [-0.24502667 0.71392413 2.53110254]

gradient= [-8.74221186e-05 -5.37279078e-05 1.41150026e-04] w = [-0.24502667 0.71392413 2.53110254] w\_new= [-0.24502754 0.71392359 2.53110395]

gradient= [-8.73218600e-05 -5.36702981e-05 1.40992158e-04] w = [-0.24502754 0.71392359 2.53110395] w\_new= [-0.24502842 0.71392305 2.53110536]

gradient= [-8.72217172e-05 -5.36127492e-05 1.40834466e-04] w = [-0.24502842 0.71392305 2.53110536] w\_new= [-0.24502929 0.71392252 2.53110677]

gradient= [-8.71216900e-05 -5.35552610e-05 1.40676951e-04] w = [-0.24502929 0.71392252 2.53110677] w\_new= [-0.24503016 0.71392198 2.53110818]

gradient= [-8.70217785e-05 -5.34978335e-05 1.40519612e-04] w = [-0.24503016 0.71392198 2.53110818] w\_new= [-0.24503103 0.71392145 2.53110958]

gradient= [-8.69219824e-05 -5.34404667e-05 1.40362449e-04] w = [-0.24503103 0.71392145 2.53110958] w\_new= [-0.2450319 0.71392091 2.53111099]

gradient= [-8.68223016e-05 -5.33831604e-05 1.40205462e-04] w = [-0.2450319 0.71392091 2.53111099] w\_new= [-0.24503277 0.71392038 2.53111239]

gradient= [-8.67227359e-05 -5.33259146e-05 1.40048651e-04] w = [-0.24503277 0.71392038 2.53111239] w\_new= [-0.24503364 0.71391985 2.53111379]

gradient= [-8.66232853e-05 -5.32687293e-05 1.39892015e-04] w = [-0.24503364 0.71391985 2.53111379] w\_new= [-0.2450345 0.71391931 2.53111519]

gradient= [-8.65239496e-05 -5.32116044e-05 1.39735554e-04] w = [-0.2450345 0.71391931 2.53111519] w\_new= [-0.24503537 0.71391878 2.53111659]

gradient= [-8.64247286e-05 -5.31545397e-05 1.39579268e-04] w = [-0.24503537 0.71391878 2.53111659] w\_new= [-0.24503623 0.71391825 2.53111798]

gradient= [-8.63256222e-05 -5.30975354e-05 1.39423158e-04] w = [-0.24503623 0.71391825 2.53111798] w\_new= [-0.24503709 0.71391772 2.53111938]

gradient= [-8.62266304e-05 -5.30405912e-05 1.39267222e-04] w = [-0.24503709 0.71391772 2.53111938] w\_new= [-0.24503796 0.71391719 2.53112077]

gradient= [-8.61277529e-05 -5.29837071e-05 1.39111460e-04] w = [-0.24503796 0.71391719 2.53112077] w\_new= [-0.24503882 0.71391666 2.53112216]

gradient= [-8.60289896e-05 -5.29268831e-05 1.38955873e-04] w = [-0.24503882 0.71391666 2.53112216] w\_new= [-0.24503968 0.71391613 2.53112355]

gradient= [-8.59303405e-05 -5.28701191e-05 1.38800460e-04] w = [-0.24503968 0.71391613 2.53112355] w\_new= [-0.24504054 0.7139156 2.53112494]

gradient= [-8.58318052e-05 -5.28134151e-05 1.38645220e-04] w = [-0.24504054 0.7139156 2.53112494] w\_new= [-0.2450414 0.71391507 2.53112632]

gradient= [-8.57333839e-05 -5.27567710e-05 1.38490155e-04] w = [-0.2450414 0.71391507 2.53112632] w\_new= [-0.24504225 0.71391454 2.53112771]

gradient= [-8.56350762e-05 -5.27001866e-05 1.38335263e-04] w = [-0.24504225 0.71391454 2.53112771] w\_new= [-0.24504311 0.71391402 2.53112909]

gradient= [-8.55368820e-05 -5.26436621e-05 1.38180544e-04] w = [-0.24504311 0.71391402 2.53112909] w\_new= [-0.24504396 0.71391349 2.53113047]

gradient= [-8.54388013e-05 -5.25871972e-05 1.38025999e-04] w = [-0.24504396 0.71391349 2.53113047] w\_new= [-0.24504482 0.71391296 2.53113185]

gradient= [-8.53408339e-05 -5.25307919e-05 1.37871626e-04] w = [-0.24504482 0.71391296 2.53113185] w\_new= [-0.24504567 0.71391244 2.53113323]

gradient= [-8.52429797e-05 -5.24744463e-05 1.37717426e-04] w = [-0.24504567 0.71391244 2.53113323] w\_new= [-0.24504653 0.71391191 2.53113461]

gradient= [-8.51452385e-05 -5.24181601e-05 1.37563399e-04] w = [-0.24504653 0.71391191 2.53113461] w\_new= [-0.24504738 0.71391139 2.53113599]

gradient= [-8.50476102e-05 -5.23619334e-05 1.37409544e-04] w = [-0.24504738 0.71391139 2.53113599] w\_new= [-0.24504823 0.71391087 2.53113736]

gradient= [-8.49500946e-05 -5.23057661e-05 1.37255861e-04] w = [-0.24504823 0.71391087 2.53113736] w\_new= [-0.24504908 0.71391034 2.53113873]

gradient= [-8.48526917e-05 -5.22496581e-05 1.37102350e-04] w = [-0.24504908 0.71391034 2.53113873] w\_new= [-0.24504993 0.71390982 2.5311401 ]

gradient= [-8.47554014e-05 -5.21936094e-05 1.36949011e-04] w = [-0.24504993 0.71390982 2.5311401 ] w\_new= [-0.24505077 0.7139093 2.53114147]

gradient= [-8.46582233e-05 -5.21376199e-05 1.36795843e-04] w = [-0.24505077 0.7139093 2.53114147] w\_new= [-0.24505162 0.71390878 2.53114284]

gradient= [-8.45611576e-05 -5.20816895e-05 1.36642847e-04] w = [-0.24505162 0.71390878 2.53114284] w\_new= [-0.24505246 0.71390826 2.53114421]

gradient= [-8.44642039e-05 -5.20258182e-05 1.36490022e-04] w = [-0.24505246 0.71390826 2.53114421] w\_new= [-0.24505331 0.71390774 2.53114557]

gradient= [-8.43673622e-05 -5.19700059e-05 1.36337368e-04] w = [-0.24505331 0.71390774 2.53114557] w\_new= [-0.24505415 0.71390722 2.53114694]

gradient= [-8.42706324e-05 -5.19142526e-05 1.36184885e-04] w = [-0.24505415 0.71390722 2.53114694] w\_new= [-0.245055 0.7139067 2.5311483]

gradient= [-8.41740143e-05 -5.18585582e-05 1.36032573e-04] w = [-0.245055 0.7139067 2.5311483] w\_new= [-0.24505584 0.71390618 2.53114966]

gradient= [-8.40775078e-05 -5.18029227e-05 1.35880430e-04] w = [-0.24505584 0.71390618 2.53114966] w\_new= [-0.24505668 0.71390566 2.53115102]

gradient= [-8.39811127e-05 -5.17473459e-05 1.35728459e-04] w = [-0.24505668 0.71390566 2.53115102] w\_new= [-0.24505752 0.71390514 2.53115237]

gradient= [-8.38848290e-05 -5.16918278e-05 1.35576657e-04] w = [-0.24505752 0.71390514 2.53115237] w\_new= [-0.24505836 0.71390463 2.53115373]

gradient= [-8.37886565e-05 -5.16363684e-05 1.35425025e-04] w = [-0.24505836 0.71390463 2.53115373] w\_new= [-0.24505919 0.71390411 2.53115508]

gradient= [-8.36925950e-05 -5.15809676e-05 1.35273563e-04] w = [-0.24505919 0.71390411 2.53115508] w\_new= [-0.24506003 0.71390359 2.53115644]

gradient= [-8.35966445e-05 -5.15256253e-05 1.35122270e-04] w = [-0.24506003 0.71390359 2.53115644] w\_new= [-0.24506087 0.71390308 2.53115779]

gradient= [-8.35008048e-05 -5.14703415e-05 1.34971146e-04] w = [-0.24506087 0.71390308 2.53115779] w\_new= [-0.2450617 0.71390256 2.53115914]

gradient= [-8.34050758e-05 -5.14151161e-05 1.34820192e-04] w = [-0.2450617 0.71390256 2.53115914] w\_new= [-0.24506254 0.71390205 2.53116049]

gradient= [-8.33094573e-05 -5.13599490e-05 1.34669406e-04] w = [-0.24506254 0.71390205 2.53116049] w\_new= [-0.24506337 0.71390154 2.53116183]

gradient= [-8.32139493e-05 -5.13048403e-05 1.34518790e-04] w = [-0.24506337 0.71390154 2.53116183] w\_new= [-0.2450642 0.71390102 2.53116318]

gradient= [-8.31185516e-05 -5.12497898e-05 1.34368341e-04] w = [-0.2450642 0.71390102 2.53116318] w\_new= [-0.24506503 0.71390051 2.53116452]

gradient= [-8.30232640e-05 -5.11947974e-05 1.34218061e-04] w = [-0.24506503 0.71390051 2.53116452] w\_new= [-0.24506586 0.7139 2.53116586]

gradient= [-8.29280865e-05 -5.11398632e-05 1.34067950e-04] w = [-0.24506586 0.7139 2.53116586] w\_new= [-0.24506669 0.71389949 2.5311672 ]

gradient= [-8.28330189e-05 -5.10849870e-05 1.33918006e-04] w = [-0.24506669 0.71389949 2.5311672 ] w\_new= [-0.24506752 0.71389898 2.53116854]

gradient= [-8.27380610e-05 -5.10301689e-05 1.33768230e-04] w = [-0.24506752 0.71389898 2.53116854] w\_new= [-0.24506835 0.71389847 2.53116988]

gradient= [-8.26432129e-05 -5.09754086e-05 1.33618621e-04] w = [-0.24506835 0.71389847 2.53116988] w\_new= [-0.24506917 0.71389796 2.53117122]

gradient= [-8.25484742e-05 -5.09207063e-05 1.33469180e-04] w = [-0.24506917 0.71389796 2.53117122] w\_new= [-0.24507 0.71389745 2.53117255]

gradient= [-8.24538450e-05 -5.08660617e-05 1.33319907e-04] w = [-0.24507 0.71389745 2.53117255] w\_new= [-0.24507082 0.71389694 2.53117389]

gradient= [-8.23593250e-05 -5.08114749e-05 1.33170800e-04] w = [-0.24507082 0.71389694 2.53117389] w\_new= [-0.24507165 0.71389643 2.53117522]

gradient= [-8.22649141e-05 -5.07569458e-05 1.33021860e-04] w = [-0.24507165 0.71389643 2.53117522] w\_new= [-0.24507247 0.71389592 2.53117655]

gradient= [-8.21706123e-05 -5.07024743e-05 1.32873087e-04] w = [-0.24507247 0.71389592 2.53117655] w\_new= [-0.24507329 0.71389542 2.53117788]

gradient= [-8.20764194e-05 -5.06480604e-05 1.32724480e-04] w = [-0.24507329 0.71389542 2.53117788] w\_new= [-0.24507411 0.71389491 2.5311792 ]

gradient= [-8.19823352e-05 -5.05937040e-05 1.32576039e-04] w = [-0.24507411 0.71389491 2.5311792 ] w\_new= [-0.24507493 0.7138944 2.53118053]

gradient= [-8.18883597e-05 -5.05394051e-05 1.32427765e-04] w = [-0.24507493 0.7138944 2.53118053] w\_new= [-0.24507575 0.7138939 2.53118185]

gradient= [-8.17944927e-05 -5.04851635e-05 1.32279656e-04] w = [-0.24507575 0.7138939 2.53118185] w\_new= [-0.24507657 0.71389339 2.53118318]

gradient= [-8.17007341e-05 -5.04309794e-05 1.32131713e-04] w = [-0.24507657 0.71389339 2.53118318] w\_new= [-0.24507739 0.71389289 2.5311845 ]

gradient= [-8.16070837e-05 -5.03768524e-05 1.31983936e-04] w = [-0.24507739 0.71389289 2.5311845 ] w\_new= [-0.2450782 0.71389239 2.53118582]

gradient= [-8.15135415e-05 -5.03227827e-05 1.31836324e-04] w = [-0.2450782 0.71389239 2.53118582] w\_new= [-0.24507902 0.71389188 2.53118714]

gradient= [-8.14201072e-05 -5.02687702e-05 1.31688877e-04] w = [-0.24507902 0.71389188 2.53118714] w\_new= [-0.24507983 0.71389138 2.53118845]

gradient= [-8.13267809e-05 -5.02148147e-05 1.31541596e-04] w = [-0.24507983 0.71389138 2.53118845] w\_new= [-0.24508065 0.71389088 2.53118977]

gradient= [-8.12335623e-05 -5.01609163e-05 1.31394479e-04] w = [-0.24508065 0.71389088 2.53118977] w\_new= [-0.24508146 0.71389038 2.53119108]

gradient= [-8.11404513e-05 -5.01070749e-05 1.31247526e-04] w = [-0.24508146 0.71389038 2.53119108] w\_new= [-0.24508227 0.71388988 2.53119239]

gradient= [-8.10474478e-05 -5.00532904e-05 1.31100738e-04] w = [-0.24508227 0.71388988 2.53119239] w\_new= [-0.24508308 0.71388937 2.53119371]

gradient= [-8.09545517e-05 -4.99995628e-05 1.30954114e-04] w = [-0.24508308 0.71388937 2.53119371] w\_new= [-0.24508389 0.71388887 2.53119501]

gradient= [-8.08617629e-05 -4.99458920e-05 1.30807655e-04] w = [-0.24508389 0.71388887 2.53119501] w\_new= [-0.2450847 0.71388838 2.53119632]

gradient= [-8.07690811e-05 -4.98922779e-05 1.30661359e-04] w = [-0.2450847 0.71388838 2.53119632] w\_new= [-0.24508551 0.71388788 2.53119763]

gradient= [-8.06765064e-05 -4.98387205e-05 1.30515227e-04] w = [-0.24508551 0.71388788 2.53119763] w\_new= [-0.24508631 0.71388738 2.53119893]

gradient= [-8.05840386e-05 -4.97852197e-05 1.30369258e-04] w = [-0.24508631 0.71388738 2.53119893] w\_new= [-0.24508712 0.71388688 2.53120024]

gradient= [-8.04916775e-05 -4.97317755e-05 1.30223453e-04] w = [-0.24508712 0.71388688 2.53120024] w\_new= [-0.24508792 0.71388638 2.53120154]

gradient= [-8.03994231e-05 -4.96783878e-05 1.30077811e-04] w = [-0.24508792 0.71388638 2.53120154] w\_new= [-0.24508873 0.71388589 2.53120284]

gradient= [-8.03072751e-05 -4.96250566e-05 1.29932332e-04] w = [-0.24508873 0.71388589 2.53120284] w\_new= [-0.24508953 0.71388539 2.53120414]

gradient= [-8.02152335e-05 -4.95717818e-05 1.29787015e-04] w = [-0.24508953 0.71388539 2.53120414] w\_new= [-0.24509033 0.71388489 2.53120544]

gradient= [-8.01232982e-05 -4.95185633e-05 1.29641861e-04] w = [-0.24509033 0.71388489 2.53120544] w\_new= [-0.24509113 0.7138844 2.53120674]

gradient= [-8.0031469e-05 -4.9465401e-05 1.2949687e-04] w = [-0.24509113 0.7138844 2.53120674] w\_new= [-0.24509193 0.7138839 2.53120803]

gradient= [-7.99397458e-05 -4.94122950e-05 1.29352041e-04] w = [-0.24509193 0.7138839 2.53120803] w\_new= [-0.24509273 0.71388341 2.53120932]

gradient= [-7.98481286e-05 -4.93592452e-05 1.29207374e-04] w = [-0.24509273 0.71388341 2.53120932] w\_new= [-0.24509353 0.71388292 2.53121062]

gradient= [-7.97566170e-05 -4.93062515e-05 1.29062868e-04] w = [-0.24509353 0.71388292 2.53121062] w\_new= [-0.24509433 0.71388242 2.53121191]

gradient= [-7.96652111e-05 -4.92533138e-05 1.28918525e-04] w = [-0.24509433 0.71388242 2.53121191] w\_new= [-0.24509513 0.71388193 2.5312132 ]

gradient= [-7.95739108e-05 -4.92004321e-05 1.28774343e-04] w = [-0.24509513 0.71388193 2.5312132 ] w\_new= [-0.24509592 0.71388144 2.53121448]

gradient= [-7.94827158e-05 -4.91476063e-05 1.28630322e-04] w = [-0.24509592 0.71388144 2.53121448] w\_new= [-0.24509672 0.71388095 2.53121577]

gradient= [-7.93916261e-05 -4.90948364e-05 1.28486462e-04] w = [-0.24509672 0.71388095 2.53121577] w\_new= [-0.24509751 0.71388046 2.53121705]

gradient= [-7.93006415e-05 -4.90421223e-05 1.28342764e-04] w = [-0.24509751 0.71388046 2.53121705] w\_new= [-0.2450983 0.71387997 2.53121834]

gradient= [-7.92097620e-05 -4.89894640e-05 1.28199226e-04] w = [-0.2450983 0.71387997 2.53121834] w\_new= [-0.2450991 0.71387948 2.53121962]

gradient= [-7.91189873e-05 -4.89368613e-05 1.28055849e-04] w = [-0.2450991 0.71387948 2.53121962] w\_new= [-0.24509989 0.71387899 2.5312209 ]

gradient= [-7.90283175e-05 -4.88843143e-05 1.27912632e-04] w = [-0.24509989 0.71387899 2.5312209 ] w\_new= [-0.24510068 0.7138785 2.53122218]

gradient= [-7.89377523e-05 -4.88318229e-05 1.27769575e-04] w = [-0.24510068 0.7138785 2.53122218] w\_new= [-0.24510147 0.71387801 2.53122346]

gradient= [-7.88472916e-05 -4.87793870e-05 1.27626679e-04] w = [-0.24510147 0.71387801 2.53122346] w\_new= [-0.24510226 0.71387752 2.53122473]

gradient= [-7.87569353e-05 -4.87270066e-05 1.27483942e-04] w = [-0.24510226 0.71387752 2.53122473] w\_new= [-0.24510304 0.71387703 2.53122601]

gradient= [-7.86666834e-05 -4.86746816e-05 1.27341365e-04] w = [-0.24510304 0.71387703 2.53122601] w\_new= [-0.24510383 0.71387655 2.53122728]

gradient= [-7.85765356e-05 -4.86224120e-05 1.27198948e-04] w = [-0.24510383 0.71387655 2.53122728] w\_new= [-0.24510462 0.71387606 2.53122855]

gradient= [-7.84864919e-05 -4.85701976e-05 1.27056689e-04] w = [-0.24510462 0.71387606 2.53122855] w\_new= [-0.2451054 0.71387558 2.53122982]

gradient= [-7.83965520e-05 -4.85180385e-05 1.26914591e-04] w = [-0.2451054 0.71387558 2.53122982] w\_new= [-0.24510618 0.71387509 2.53123109]

gradient= [-7.83067160e-05 -4.84659345e-05 1.26772651e-04] w = [-0.24510618 0.71387509 2.53123109] w\_new= [-0.24510697 0.71387461 2.53123236]

gradient= [-7.82169837e-05 -4.84138857e-05 1.26630869e-04] w = [-0.24510697 0.71387461 2.53123236] w\_new= [-0.24510775 0.71387412 2.53123363]

gradient= [-7.81273550e-05 -4.83618920e-05 1.26489247e-04] w = [-0.24510775 0.71387412 2.53123363] w\_new= [-0.24510853 0.71387364 2.53123489]

gradient= [-7.80378297e-05 -4.83099532e-05 1.26347783e-04] w = [-0.24510853 0.71387364 2.53123489] w\_new= [-0.24510931 0.71387316 2.53123616]

gradient= [-7.79484077e-05 -4.82580695e-05 1.26206477e-04] w = [-0.24510931 0.71387316 2.53123616] w\_new= [-0.24511009 0.71387267 2.53123742]

gradient= [-7.78590889e-05 -4.82062406e-05 1.26065329e-04] w = [-0.24511009 0.71387267 2.53123742] w\_new= [-0.24511087 0.71387219 2.53123868]

gradient= [-7.77698732e-05 -4.81544665e-05 1.25924340e-04] w = [-0.24511087 0.71387219 2.53123868] w\_new= [-0.24511165 0.71387171 2.53123994]

gradient= [-7.76807605e-05 -4.81027473e-05 1.25783508e-04] w = [-0.24511165 0.71387171 2.53123994] w\_new= [-0.24511242 0.71387123 2.5312412 ]

gradient= [-7.75917506e-05 -4.80510827e-05 1.25642833e-04] w = [-0.24511242 0.71387123 2.5312412 ] w\_new= [-0.2451132 0.71387075 2.53124245]

gradient= [-7.75028434e-05 -4.79994728e-05 1.25502316e-04] w = [-0.2451132 0.71387075 2.53124245] w\_new= [-0.24511397 0.71387027 2.53124371]

gradient= [-7.74140389e-05 -4.79479176e-05 1.25361956e-04] w = [-0.24511397 0.71387027 2.53124371] w\_new= [-0.24511475 0.71386979 2.53124496]

gradient= [-7.73253368e-05 -4.78964169e-05 1.25221754e-04] w = [-0.24511475 0.71386979 2.53124496] w\_new= [-0.24511552 0.71386931 2.53124621]

gradient= [-7.72367371e-05 -4.78449707e-05 1.25081708e-04] w = [-0.24511552 0.71386931 2.53124621] w\_new= [-0.24511629 0.71386883 2.53124746]

gradient= [-7.71482396e-05 -4.77935789e-05 1.24941819e-04] w = [-0.24511629 0.71386883 2.53124746] w\_new= [-0.24511707 0.71386835 2.53124871]

gradient= [-7.70598443e-05 -4.77422415e-05 1.24802086e-04] w = [-0.24511707 0.71386835 2.53124871] w\_new= [-0.24511784 0.71386788 2.53124996]

gradient= [-7.69715510e-05 -4.76909585e-05 1.24662509e-04] w = [-0.24511784 0.71386788 2.53124996] w\_new= [-0.24511861 0.7138674 2.53125121]

gradient= [-7.68833595e-05 -4.76397297e-05 1.24523089e-04] w = [-0.24511861 0.7138674 2.53125121] w\_new= [-0.24511937 0.71386692 2.53125245]

gradient= [-7.67952699e-05 -4.75885552e-05 1.24383825e-04] w = [-0.24511937 0.71386692 2.53125245] w\_new= [-0.24512014 0.71386645 2.5312537 ]

gradient= [-7.67072818e-05 -4.75374348e-05 1.24244717e-04] w = [-0.24512014 0.71386645 2.5312537 ] w\_new= [-0.24512091 0.71386597 2.53125494]

gradient= [-7.66193954e-05 -4.74863685e-05 1.24105764e-04] w = [-0.24512091 0.71386597 2.53125494] w\_new= [-0.24512168 0.7138655 2.53125618]

gradient= [-7.65316103e-05 -4.74353562e-05 1.23966967e-04] w = [-0.24512168 0.7138655 2.53125618] w\_new= [-0.24512244 0.71386502 2.53125742]

gradient= [-7.64439265e-05 -4.73843980e-05 1.23828325e-04] w = [-0.24512244 0.71386502 2.53125742] w\_new= [-0.24512321 0.71386455 2.53125866]

gradient= [-7.63563439e-05 -4.73334937e-05 1.23689838e-04] w = [-0.24512321 0.71386455 2.53125866] w\_new= [-0.24512397 0.71386407 2.5312599 ]

gradient= [-7.62688624e-05 -4.72826433e-05 1.23551506e-04] w = [-0.24512397 0.71386407 2.5312599 ] w\_new= [-0.24512473 0.7138636 2.53126113]

gradient= [-7.61814818e-05 -4.72318467e-05 1.23413328e-04] w = [-0.24512473 0.7138636 2.53126113] w\_new= [-0.24512549 0.71386313 2.53126236]

gradient= [-7.60942020e-05 -4.71811038e-05 1.23275306e-04] w = [-0.24512549 0.71386313 2.53126236] w\_new= [-0.24512625 0.71386266 2.5312636 ]

gradient= [-7.60070230e-05 -4.71304147e-05 1.23137438e-04] w = [-0.24512625 0.71386266 2.5312636 ] w\_new= [-0.24512702 0.71386219 2.53126483]

gradient= [-7.59199445e-05 -4.70797792e-05 1.22999724e-04] w = [-0.24512702 0.71386219 2.53126483] w\_new= [-0.24512777 0.71386172 2.53126606]

gradient= [-7.58329666e-05 -4.70291974e-05 1.22862164e-04] w = [-0.24512777 0.71386172 2.53126606] w\_new= [-0.24512853 0.71386124 2.53126729]

gradient= [-7.57460889e-05 -4.69786691e-05 1.22724758e-04] w = [-0.24512853 0.71386124 2.53126729] w\_new= [-0.24512929 0.71386078 2.53126851]

gradient= [-7.56593115e-05 -4.69281943e-05 1.22587506e-04] w = [-0.24512929 0.71386078 2.53126851] w\_new= [-0.24513005 0.71386031 2.53126974]

gradient= [-7.55726343e-05 -4.68777729e-05 1.22450407e-04] w = [-0.24513005 0.71386031 2.53126974] w\_new= [-0.2451308 0.71385984 2.53127097]

gradient= [-7.54860570e-05 -4.68274049e-05 1.22313462e-04] w = [-0.2451308 0.71385984 2.53127097] w\_new= [-0.24513156 0.71385937 2.53127219]

gradient= [-7.53995797e-05 -4.67770902e-05 1.22176670e-04] w = [-0.24513156 0.71385937 2.53127219] w\_new= [-0.24513231 0.7138589 2.53127341]

gradient= [-7.53132021e-05 -4.67268288e-05 1.22040031e-04] w = [-0.24513231 0.7138589 2.53127341] w\_new= [-0.24513306 0.71385843 2.53127463]

gradient= [-7.52269241e-05 -4.66766206e-05 1.21903545e-04] w = [-0.24513306 0.71385843 2.53127463] w\_new= [-0.24513382 0.71385797 2.53127585]

gradient= [-7.51407457e-05 -4.66264656e-05 1.21767211e-04] w = [-0.24513382 0.71385797 2.53127585] w\_new= [-0.24513457 0.7138575 2.53127707]

gradient= [-7.50546668e-05 -4.65763636e-05 1.21631030e-04] w = [-0.24513457 0.7138575 2.53127707] w\_new= [-0.24513532 0.71385704 2.53127828]

gradient= [-7.49686871e-05 -4.65263147e-05 1.21495002e-04] w = [-0.24513532 0.71385704 2.53127828] w\_new= [-0.24513607 0.71385657 2.5312795 ]

gradient= [-7.48828067e-05 -4.64763189e-05 1.21359126e-04] w = [-0.24513607 0.71385657 2.5312795 ] w\_new= [-0.24513682 0.7138561 2.53128071]

gradient= [-7.47970253e-05 -4.64263759e-05 1.21223401e-04] w = [-0.24513682 0.7138561 2.53128071] w\_new= [-0.24513757 0.71385564 2.53128192]

gradient= [-7.47113429e-05 -4.63764859e-05 1.21087829e-04] w = [-0.24513757 0.71385564 2.53128192] w\_new= [-0.24513831 0.71385518 2.53128314]

gradient= [-7.46257593e-05 -4.63266486e-05 1.20952408e-04] w = [-0.24513831 0.71385518 2.53128314] w\_new= [-0.24513906 0.71385471 2.53128434]

gradient= [-7.45402745e-05 -4.62768642e-05 1.20817139e-04] w = [-0.24513906 0.71385471 2.53128434] w\_new= [-0.2451398 0.71385425 2.53128555]

gradient= [-7.44548882e-05 -4.62271324e-05 1.20682021e-04] w = [-0.2451398 0.71385425 2.53128555] w\_new= [-0.24514055 0.71385379 2.53128676]

gradient= [-7.43696005e-05 -4.61774534e-05 1.20547054e-04] w = [-0.24514055 0.71385379 2.53128676] w\_new= [-0.24514129 0.71385333 2.53128797]

gradient= [-7.42844112e-05 -4.61278269e-05 1.20412238e-04] w = [-0.24514129 0.71385333 2.53128797] w\_new= [-0.24514203 0.71385287 2.53128917]

gradient= [-7.41993202e-05 -4.60782530e-05 1.20277573e-04] w = [-0.24514203 0.71385287 2.53128917] w\_new= [-0.24514278 0.7138524 2.53129037]

gradient= [-7.41143273e-05 -4.60287316e-05 1.20143059e-04] w = [-0.24514278 0.7138524 2.53129037] w\_new= [-0.24514352 0.71385194 2.53129157]

gradient= [-7.40294324e-05 -4.59792626e-05 1.20008695e-04] w = [-0.24514352 0.71385194 2.53129157] w\_new= [-0.24514426 0.71385148 2.53129277]

gradient= [-7.39446355e-05 -4.59298461e-05 1.19874482e-04] w = [-0.24514426 0.71385148 2.53129277] w\_new= [-0.245145 0.71385103 2.53129397]

gradient= [-7.38599364e-05 -4.58804819e-05 1.19740418e-04] w = [-0.245145 0.71385103 2.53129397] w\_new= [-0.24514574 0.71385057 2.53129517]

gradient= [-7.37753350e-05 -4.58311699e-05 1.19606505e-04] w = [-0.24514574 0.71385057 2.53129517] w\_new= [-0.24514647 0.71385011 2.53129637]

gradient= [-7.36908313e-05 -4.57819102e-05 1.19472741e-04] w = [-0.24514647 0.71385011 2.53129637] w\_new= [-0.24514721 0.71384965 2.53129756]

gradient= [-7.36064249e-05 -4.57327027e-05 1.19339128e-04] w = [-0.24514721 0.71384965 2.53129756] w\_new= [-0.24514795 0.71384919 2.53129875]

gradient= [-7.35221160e-05 -4.56835473e-05 1.19205663e-04] w = [-0.24514795 0.71384919 2.53129875] w\_new= [-0.24514868 0.71384874 2.53129995]

gradient= [-7.34379043e-05 -4.56344439e-05 1.19072348e-04] w = [-0.24514868 0.71384874 2.53129995] w\_new= [-0.24514942 0.71384828 2.53130114]

gradient= [-7.33537897e-05 -4.55853926e-05 1.18939182e-04] w = [-0.24514942 0.71384828 2.53130114] w\_new= [-0.24515015 0.71384782 2.53130233]

gradient= [-7.32697721e-05 -4.55363932e-05 1.18806165e-04] w = [-0.24515015 0.71384782 2.53130233] w\_new= [-0.24515088 0.71384737 2.53130351]

gradient= [-7.31858515e-05 -4.54874458e-05 1.18673297e-04] w = [-0.24515088 0.71384737 2.53130351] w\_new= [-0.24515161 0.71384691 2.5313047 ]

gradient= [-7.31020277e-05 -4.54385501e-05 1.18540578e-04] w = [-0.24515161 0.71384691 2.5313047 ] w\_new= [-0.24515235 0.71384646 2.53130589]

gradient= [-7.30183005e-05 -4.53897063e-05 1.18408007e-04] w = [-0.24515235 0.71384646 2.53130589] w\_new= [-0.24515308 0.71384601 2.53130707]

gradient= [-7.29346699e-05 -4.53409143e-05 1.18275584e-04] w = [-0.24515308 0.71384601 2.53130707] w\_new= [-0.24515381 0.71384555 2.53130825]

gradient= [-7.28511358e-05 -4.52921739e-05 1.18143310e-04] w = [-0.24515381 0.71384555 2.53130825] w\_new= [-0.24515453 0.7138451 2.53130943]

gradient= [-7.27676980e-05 -4.52434851e-05 1.18011183e-04] w = [-0.24515453 0.7138451 2.53130943] w\_new= [-0.24515526 0.71384465 2.53131061]

gradient= [-7.26843565e-05 -4.51948480e-05 1.17879204e-04] w = [-0.24515526 0.71384465 2.53131061] w\_new= [-0.24515599 0.71384419 2.53131179]

gradient= [-7.26011111e-05 -4.51462624e-05 1.17747373e-04] w = [-0.24515599 0.71384419 2.53131179] w\_new= [-0.24515671 0.71384374 2.53131297]

gradient= [-7.25179617e-05 -4.50977282e-05 1.17615690e-04] w = [-0.24515671 0.71384374 2.53131297] w\_new= [-0.24515744 0.71384329 2.53131415]

gradient= [-7.24349082e-05 -4.50492455e-05 1.17484154e-04] w = [-0.24515744 0.71384329 2.53131415] w\_new= [-0.24515816 0.71384284 2.53131532]

gradient= [-7.23519505e-05 -4.50008141e-05 1.17352765e-04] w = [-0.24515816 0.71384284 2.53131532] w\_new= [-0.24515889 0.71384239 2.5313165 ]

gradient= [-7.22690884e-05 -4.49524341e-05 1.17221522e-04] w = [-0.24515889 0.71384239 2.5313165 ] w\_new= [-0.24515961 0.71384194 2.53131767]

gradient= [-7.21863219e-05 -4.49041053e-05 1.17090427e-04] w = [-0.24515961 0.71384194 2.53131767] w\_new= [-0.24516033 0.71384149 2.53131884]

gradient= [-7.21036509e-05 -4.48558277e-05 1.16959479e-04] w = [-0.24516033 0.71384149 2.53131884] w\_new= [-0.24516105 0.71384104 2.53132001]

gradient= [-7.20210752e-05 -4.48076013e-05 1.16828677e-04] w = [-0.24516105 0.71384104 2.53132001] w\_new= [-0.24516177 0.7138406 2.53132118]

gradient= [-7.19385948e-05 -4.47594260e-05 1.16698021e-04] w = [-0.24516177 0.7138406 2.53132118] w\_new= [-0.24516249 0.71384015 2.53132234]

gradient= [-7.18562095e-05 -4.47113017e-05 1.16567511e-04] w = [-0.24516249 0.71384015 2.53132234] w\_new= [-0.24516321 0.7138397 2.53132351]

gradient= [-7.17739192e-05 -4.46632285e-05 1.16437148e-04] w = [-0.24516321 0.7138397 2.53132351] w\_new= [-0.24516393 0.71383926 2.53132467]

gradient= [-7.16917238e-05 -4.46152062e-05 1.16306930e-04] w = [-0.24516393 0.71383926 2.53132467] w\_new= [-0.24516465 0.71383881 2.53132584]

gradient= [-7.16096231e-05 -4.45672347e-05 1.16176858e-04] w = [-0.24516465 0.71383881 2.53132584] w\_new= [-0.24516536 0.71383836 2.531327 ]

gradient= [-7.15276172e-05 -4.45193141e-05 1.16046931e-04] w = [-0.24516536 0.71383836 2.531327 ] w\_new= [-0.24516608 0.71383792 2.53132816]

gradient= [-7.14457058e-05 -4.44714443e-05 1.15917150e-04] w = [-0.24516608 0.71383792 2.53132816] w\_new= [-0.24516679 0.71383747 2.53132932]

gradient= [-7.13638889e-05 -4.44236253e-05 1.15787514e-04] w = [-0.24516679 0.71383747 2.53132932] w\_new= [-0.24516751 0.71383703 2.53133048]

gradient= [-7.12821664e-05 -4.43758569e-05 1.15658023e-04] w = [-0.24516751 0.71383703 2.53133048] w\_new= [-0.24516822 0.71383659 2.53133163]

gradient= [-7.12005380e-05 -4.43281391e-05 1.15528677e-04] w = [-0.24516822 0.71383659 2.53133163] w\_new= [-0.24516893 0.71383614 2.53133279]

gradient= [-7.11190038e-05 -4.42804719e-05 1.15399476e-04] w = [-0.24516893 0.71383614 2.53133279] w\_new= [-0.24516964 0.7138357 2.53133394]

gradient= [-7.10375637e-05 -4.42328553e-05 1.15270419e-04] w = [-0.24516964 0.7138357 2.53133394] w\_new= [-0.24517035 0.71383526 2.53133509]

gradient= [-7.09562174e-05 -4.41852891e-05 1.15141506e-04] w = [-0.24517035 0.71383526 2.53133509] w\_new= [-0.24517106 0.71383482 2.53133625]

gradient= [-7.08749649e-05 -4.41377733e-05 1.15012738e-04] w = [-0.24517106 0.71383482 2.53133625] w\_new= [-0.24517177 0.71383437 2.5313374 ]

gradient= [-7.07938062e-05 -4.40903079e-05 1.14884114e-04] w = [-0.24517177 0.71383437 2.5313374 ] w\_new= [-0.24517248 0.71383393 2.53133854]

gradient= [-7.07127410e-05 -4.40428928e-05 1.14755634e-04] w = [-0.24517248 0.71383393 2.53133854] w\_new= [-0.24517319 0.71383349 2.53133969]

gradient= [-7.06317693e-05 -4.39955280e-05 1.14627297e-04] w = [-0.24517319 0.71383349 2.53133969] w\_new= [-0.24517389 0.71383305 2.53134084]

gradient= [-7.05508909e-05 -4.39482134e-05 1.14499104e-04] w = [-0.24517389 0.71383305 2.53134084] w\_new= [-0.2451746 0.71383261 2.53134198]

gradient= [-7.04701058e-05 -4.39009489e-05 1.14371055e-04] w = [-0.2451746 0.71383261 2.53134198] w\_new= [-0.2451753 0.71383217 2.53134313]

gradient= [-7.03894139e-05 -4.38537345e-05 1.14243148e-04] w = [-0.2451753 0.71383217 2.53134313] w\_new= [-0.24517601 0.71383174 2.53134427]

gradient= [-7.03088150e-05 -4.38065702e-05 1.14115385e-04] w = [-0.24517601 0.71383174 2.53134427] w\_new= [-0.24517671 0.7138313 2.53134541]

gradient= [-7.02283090e-05 -4.37594559e-05 1.13987765e-04] w = [-0.24517671 0.7138313 2.53134541] w\_new= [-0.24517741 0.71383086 2.53134655]

gradient= [-7.01478959e-05 -4.37123916e-05 1.13860287e-04] w = [-0.24517741 0.71383086 2.53134655] w\_new= [-0.24517811 0.71383042 2.53134769]

gradient= [-7.00675755e-05 -4.36653771e-05 1.13732953e-04] w = [-0.24517811 0.71383042 2.53134769] w\_new= [-0.24517881 0.71382999 2.53134883]

gradient= [-6.99873476e-05 -4.36184125e-05 1.13605760e-04] w = [-0.24517881 0.71382999 2.53134883] w\_new= [-0.24517951 0.71382955 2.53134996]

gradient= [-6.99072123e-05 -4.35714976e-05 1.13478710e-04] w = [-0.24517951 0.71382955 2.53134996] w\_new= [-0.24518021 0.71382911 2.5313511 ]

gradient= [-6.98271694e-05 -4.35246326e-05 1.13351802e-04] w = [-0.24518021 0.71382911 2.5313511 ] w\_new= [-0.24518091 0.71382868 2.53135223]

gradient= [-6.97472188e-05 -4.34778172e-05 1.13225036e-04] w = [-0.24518091 0.71382868 2.53135223] w\_new= [-0.24518161 0.71382824 2.53135336]

gradient= [-6.96673603e-05 -4.34310514e-05 1.13098412e-04] w = [-0.24518161 0.71382824 2.53135336] w\_new= [-0.2451823 0.71382781 2.53135449]

gradient= [-6.95875939e-05 -4.33843352e-05 1.12971929e-04] w = [-0.2451823 0.71382781 2.53135449] w\_new= [-0.245183 0.71382738 2.53135562]

gradient= [-6.95079195e-05 -4.33376686e-05 1.12845588e-04] w = [-0.245183 0.71382738 2.53135562] w\_new= [-0.2451837 0.71382694 2.53135675]

gradient= [-6.94283369e-05 -4.32910515e-05 1.12719388e-04] w = [-0.2451837 0.71382694 2.53135675] w\_new= [-0.24518439 0.71382651 2.53135788]

gradient= [-6.93488461e-05 -4.32444837e-05 1.12593330e-04] w = [-0.24518439 0.71382651 2.53135788] w\_new= [-0.24518508 0.71382608 2.53135901]

gradient= [-6.92694469e-05 -4.31979654e-05 1.12467412e-04] w = [-0.24518508 0.71382608 2.53135901] w\_new= [-0.24518578 0.71382565 2.53136013]

gradient= [-6.91901392e-05 -4.31514964e-05 1.12341636e-04] w = [-0.24518578 0.71382565 2.53136013] w\_new= [-0.24518647 0.71382521 2.53136125]

gradient= [-6.91109230e-05 -4.31050767e-05 1.12216000e-04] w = [-0.24518647 0.71382521 2.53136125] w\_new= [-0.24518716 0.71382478 2.53136238]

gradient= [-6.90317981e-05 -4.30587062e-05 1.12090504e-04] w = [-0.24518716 0.71382478 2.53136238] w\_new= [-0.24518785 0.71382435 2.5313635 ]

gradient= [-6.89527645e-05 -4.30123848e-05 1.11965149e-04] w = [-0.24518785 0.71382435 2.5313635 ] w\_new= [-0.24518854 0.71382392 2.53136462]

gradient= [-6.88738219e-05 -4.29661126e-05 1.11839935e-04] w = [-0.24518854 0.71382392 2.53136462] w\_new= [-0.24518923 0.71382349 2.53136573]

gradient= [-6.87949704e-05 -4.29198895e-05 1.11714860e-04] w = [-0.24518923 0.71382349 2.53136573] w\_new= [-0.24518992 0.71382306 2.53136685]

gradient= [-6.87162097e-05 -4.28737154e-05 1.11589925e-04] w = [-0.24518992 0.71382306 2.53136685] w\_new= [-0.2451906 0.71382263 2.53136797]

gradient= [-6.86375398e-05 -4.28275903e-05 1.11465130e-04] w = [-0.2451906 0.71382263 2.53136797] w\_new= [-0.24519129 0.71382221 2.53136908]

gradient= [-6.85589607e-05 -4.27815141e-05 1.11340475e-04] w = [-0.24519129 0.71382221 2.53136908] w\_new= [-0.24519197 0.71382178 2.5313702 ]

gradient= [-6.84804721e-05 -4.27354867e-05 1.11215959e-04] w = [-0.24519197 0.71382178 2.5313702 ] w\_new= [-0.24519266 0.71382135 2.53137131]

gradient= [-6.84020739e-05 -4.26895082e-05 1.11091582e-04] w = [-0.24519266 0.71382135 2.53137131] w\_new= [-0.24519334 0.71382092 2.53137242]

gradient= [-6.83237662e-05 -4.26435785e-05 1.10967345e-04] w = [-0.24519334 0.71382092 2.53137242] w\_new= [-0.24519403 0.7138205 2.53137353]

gradient= [-6.82455487e-05 -4.25976974e-05 1.10843246e-04] w = [-0.24519403 0.7138205 2.53137353] w\_new= [-0.24519471 0.71382007 2.53137464]

gradient= [-6.81674214e-05 -4.25518650e-05 1.10719286e-04] w = [-0.24519471 0.71382007 2.53137464] w\_new= [-0.24519539 0.71381965 2.53137574]

gradient= [-6.80893842e-05 -4.25060813e-05 1.10595465e-04] w = [-0.24519539 0.71381965 2.53137574] w\_new= [-0.24519607 0.71381922 2.53137685]

gradient= [-6.80114368e-05 -4.24603461e-05 1.10471783e-04] w = [-0.24519607 0.71381922 2.53137685] w\_new= [-0.24519675 0.7138188 2.53137795]

gradient= [-6.79335794e-05 -4.24146594e-05 1.10348239e-04] w = [-0.24519675 0.7138188 2.53137795] w\_new= [-0.24519743 0.71381837 2.53137906]

gradient= [-6.78558117e-05 -4.23690212e-05 1.10224833e-04] w = [-0.24519743 0.71381837 2.53137906] w\_new= [-0.24519811 0.71381795 2.53138016]

gradient= [-6.77781336e-05 -4.23234314e-05 1.10101565e-04] w = [-0.24519811 0.71381795 2.53138016] w\_new= [-0.24519879 0.71381753 2.53138126]

gradient= [-6.77005451e-05 -4.22778900e-05 1.09978435e-04] w = [-0.24519879 0.71381753 2.53138126] w\_new= [-0.24519946 0.7138171 2.53138236]

gradient= [-6.76230459e-05 -4.22323969e-05 1.09855443e-04] w = [-0.24519946 0.7138171 2.53138236] w\_new= [-0.24520014 0.71381668 2.53138346]

gradient= [-6.75456362e-05 -4.21869520e-05 1.09732588e-04] w = [-0.24520014 0.71381668 2.53138346] w\_new= [-0.24520082 0.71381626 2.53138456]

gradient= [-6.74683156e-05 -4.21415554e-05 1.09609871e-04] w = [-0.24520082 0.71381626 2.53138456] w\_new= [-0.24520149 0.71381584 2.53138565]

gradient= [-6.73910841e-05 -4.20962069e-05 1.09487291e-04] w = [-0.24520149 0.71381584 2.53138565] w\_new= [-0.24520216 0.71381542 2.53138675]

gradient= [-6.73139417e-05 -4.20509066e-05 1.09364848e-04] w = [-0.24520216 0.71381542 2.53138675] w\_new= [-0.24520284 0.713815 2.53138784]

gradient= [-6.72368882e-05 -4.20056543e-05 1.09242542e-04] w = [-0.24520284 0.713815 2.53138784] w\_new= [-0.24520351 0.71381458 2.53138893]

gradient= [-6.71599235e-05 -4.19604500e-05 1.09120373e-04] w = [-0.24520351 0.71381458 2.53138893] w\_new= [-0.24520418 0.71381416 2.53139003]

gradient= [-6.70830475e-05 -4.19152937e-05 1.08998341e-04] w = [-0.24520418 0.71381416 2.53139003] w\_new= [-0.24520485 0.71381374 2.53139112]

gradient= [-6.70062601e-05 -4.18701853e-05 1.08876445e-04] w = [-0.24520485 0.71381374 2.53139112] w\_new= [-0.24520552 0.71381332 2.5313922 ]

gradient= [-6.69295612e-05 -4.18251247e-05 1.08754686e-04] w = [-0.24520552 0.71381332 2.5313922 ] w\_new= [-0.24520619 0.7138129 2.53139329]

gradient= [-6.68529507e-05 -4.17801120e-05 1.08633063e-04] w = [-0.24520619 0.7138129 2.53139329] w\_new= [-0.24520686 0.71381248 2.53139438]

gradient= [-6.67764285e-05 -4.17351471e-05 1.08511576e-04] w = [-0.24520686 0.71381248 2.53139438] w\_new= [-0.24520753 0.71381206 2.53139546]

gradient= [-6.66999944e-05 -4.16902298e-05 1.08390224e-04] w = [-0.24520753 0.71381206 2.53139546] w\_new= [-0.2452082 0.71381165 2.53139655]

gradient= [-6.66236485e-05 -4.16453602e-05 1.08269009e-04] w = [-0.2452082 0.71381165 2.53139655] w\_new= [-0.24520886 0.71381123 2.53139763]

gradient= [-6.65473905e-05 -4.16005383e-05 1.08147929e-04] w = [-0.24520886 0.71381123 2.53139763] w\_new= [-0.24520953 0.71381082 2.53139871]

gradient= [-6.64712205e-05 -4.15557639e-05 1.08026984e-04] w = [-0.24520953 0.71381082 2.53139871] w\_new= [-0.24521019 0.7138104 2.53139979]

gradient= [-6.63951382e-05 -4.15110370e-05 1.07906175e-04] w = [-0.24521019 0.7138104 2.53139979] w\_new= [-0.24521086 0.71380998 2.53140087]

gradient= [-6.63191436e-05 -4.14663576e-05 1.07785501e-04] w = [-0.24521086 0.71380998 2.53140087] w\_new= [-0.24521152 0.71380957 2.53140195]

gradient= [-6.62432365e-05 -4.14217256e-05 1.07664962e-04] w = [-0.24521152 0.71380957 2.53140195] w\_new= [-0.24521218 0.71380916 2.53140303]

gradient= [-6.61674170e-05 -4.13771409e-05 1.07544558e-04] w = [-0.24521218 0.71380916 2.53140303] w\_new= [-0.24521284 0.71380874 2.5314041 ]

gradient= [-6.60916848e-05 -4.13326036e-05 1.07424288e-04] w = [-0.24521284 0.71380874 2.5314041 ] w\_new= [-0.2452135 0.71380833 2.53140517]

gradient= [-6.60160399e-05 -4.12881136e-05 1.07304153e-04] w = [-0.2452135 0.71380833 2.53140517] w\_new= [-0.24521416 0.71380792 2.53140625]

gradient= [-6.59404822e-05 -4.12436707e-05 1.07184153e-04] w = [-0.24521416 0.71380792 2.53140625] w\_new= [-0.24521482 0.7138075 2.53140732]

gradient= [-6.58650115e-05 -4.11992751e-05 1.07064287e-04] w = [-0.24521482 0.7138075 2.53140732] w\_new= [-0.24521548 0.71380709 2.53140839]

gradient= [-6.57896278e-05 -4.11549266e-05 1.06944554e-04] w = [-0.24521548 0.71380709 2.53140839] w\_new= [-0.24521614 0.71380668 2.53140946]

gradient= [-6.57143309e-05 -4.11106251e-05 1.06824956e-04] w = [-0.24521614 0.71380668 2.53140946] w\_new= [-0.2452168 0.71380627 2.53141053]

gradient= [-6.56391209e-05 -4.10663707e-05 1.06705492e-04] w = [-0.2452168 0.71380627 2.53141053] w\_new= [-0.24521745 0.71380586 2.5314116 ]

gradient= [-6.55639975e-05 -4.10221632e-05 1.06586161e-04] w = [-0.24521745 0.71380586 2.5314116 ] w\_new= [-0.24521811 0.71380545 2.53141266]

gradient= [-6.54889606e-05 -4.09780027e-05 1.06466963e-04] w = [-0.24521811 0.71380545 2.53141266] w\_new= [-0.24521876 0.71380504 2.53141373]

gradient= [-6.54140102e-05 -4.09338890e-05 1.06347899e-04] w = [-0.24521876 0.71380504 2.53141373] w\_new= [-0.24521942 0.71380463 2.53141479]

gradient= [-6.53391462e-05 -4.08898222e-05 1.06228968e-04] w = [-0.24521942 0.71380463 2.53141479] w\_new= [-0.24522007 0.71380422 2.53141585]

gradient= [-6.52643685e-05 -4.08458022e-05 1.06110171e-04] w = [-0.24522007 0.71380422 2.53141585] w\_new= [-0.24522072 0.71380381 2.53141691]

gradient= [-6.51896769e-05 -4.08018288e-05 1.05991506e-04] w = [-0.24522072 0.71380381 2.53141691] w\_new= [-0.24522138 0.7138034 2.53141797]

gradient= [-6.51150714e-05 -4.07579022e-05 1.05872974e-04] w = [-0.24522138 0.7138034 2.53141797] w\_new= [-0.24522203 0.713803 2.53141903]

gradient= [-6.50405518e-05 -4.07140222e-05 1.05754574e-04] w = [-0.24522203 0.713803 2.53141903] w\_new= [-0.24522268 0.71380259 2.53142009]

gradient= [-6.49661181e-05 -4.06701888e-05 1.05636307e-04] w = [-0.24522268 0.71380259 2.53142009] w\_new= [-0.24522333 0.71380218 2.53142115]

gradient= [-6.48917701e-05 -4.06264019e-05 1.05518172e-04] w = [-0.24522333 0.71380218 2.53142115] w\_new= [-0.24522398 0.71380178 2.5314222 ]

gradient= [-6.48175079e-05 -4.05826616e-05 1.05400169e-04] w = [-0.24522398 0.71380178 2.5314222 ] w\_new= [-0.24522462 0.71380137 2.53142325]

gradient= [-6.47433311e-05 -4.05389676e-05 1.05282299e-04] w = [-0.24522462 0.71380137 2.53142325] w\_new= [-0.24522527 0.71380096 2.53142431]

gradient= [-6.46692399e-05 -4.04953201e-05 1.05164560e-04] w = [-0.24522527 0.71380096 2.53142431] w\_new= [-0.24522592 0.71380056 2.53142536]

gradient= [-6.45952340e-05 -4.04517189e-05 1.05046953e-04] w = [-0.24522592 0.71380056 2.53142536] w\_new= [-0.24522656 0.71380016 2.53142641]

gradient= [-6.45213134e-05 -4.04081639e-05 1.04929477e-04] w = [-0.24522656 0.71380016 2.53142641] w\_new= [-0.24522721 0.71379975 2.53142746]

gradient= [-6.44474779e-05 -4.03646553e-05 1.04812133e-04] w = [-0.24522721 0.71379975 2.53142746] w\_new= [-0.24522785 0.71379935 2.53142851]

gradient= [-6.43737275e-05 -4.03211928e-05 1.04694920e-04] w = [-0.24522785 0.71379935 2.53142851] w\_new= [-0.2452285 0.71379894 2.53142955]

gradient= [-6.43000621e-05 -4.02777765e-05 1.04577839e-04] w = [-0.2452285 0.71379894 2.53142955] w\_new= [-0.24522914 0.71379854 2.5314306 ]

gradient= [-6.42264816e-05 -4.02344063e-05 1.04460888e-04] w = [-0.24522914 0.71379854 2.5314306 ] w\_new= [-0.24522978 0.71379814 2.53143164]

gradient= [-6.41529858e-05 -4.01910821e-05 1.04344068e-04] w = [-0.24522978 0.71379814 2.53143164] w\_new= [-0.24523042 0.71379774 2.53143269]

gradient= [-6.40795747e-05 -4.01478040e-05 1.04227379e-04] w = [-0.24523042 0.71379774 2.53143269] w\_new= [-0.24523107 0.71379734 2.53143373]

gradient= [-6.40062481e-05 -4.01045718e-05 1.04110820e-04] w = [-0.24523107 0.71379734 2.53143373] w\_new= [-0.24523171 0.71379693 2.53143477]

gradient= [-6.39330061e-05 -4.00613855e-05 1.03994392e-04] w = [-0.24523171 0.71379693 2.53143477] w\_new= [-0.24523234 0.71379653 2.53143581]

gradient= [-6.38598484e-05 -4.00182451e-05 1.03878093e-04] w = [-0.24523234 0.71379653 2.53143581] w\_new= [-0.24523298 0.71379613 2.53143685]

gradient= [-6.37867750e-05 -3.99751505e-05 1.03761925e-04] w = [-0.24523298 0.71379613 2.53143685] w\_new= [-0.24523362 0.71379573 2.53143789]

gradient= [-6.37137858e-05 -3.99321017e-05 1.03645887e-04] w = [-0.24523362 0.71379573 2.53143789] w\_new= [-0.24523426 0.71379533 2.53143892]

gradient= [-6.36408806e-05 -3.98890985e-05 1.03529979e-04] w = [-0.24523426 0.71379533 2.53143892] w\_new= [-0.24523489 0.71379494 2.53143996]

gradient= [-6.35680595e-05 -3.98461411e-05 1.03414201e-04] w = [-0.24523489 0.71379494 2.53143996] w\_new= [-0.24523553 0.71379454 2.53144099]

gradient= [-6.34953222e-05 -3.98032293e-05 1.03298552e-04] w = [-0.24523553 0.71379454 2.53144099] w\_new= [-0.24523617 0.71379414 2.53144203]

gradient= [-6.34226687e-05 -3.97603631e-05 1.03183032e-04] w = [-0.24523617 0.71379414 2.53144203] w\_new= [-0.2452368 0.71379374 2.53144306]

gradient= [-6.33500990e-05 -3.97175424e-05 1.03067641e-04] w = [-0.2452368 0.71379374 2.53144306] w\_new= [-0.24523743 0.71379334 2.53144409]

gradient= [-6.32776128e-05 -3.96747671e-05 1.02952380e-04] w = [-0.24523743 0.71379334 2.53144409] w\_new= [-0.24523807 0.71379295 2.53144512]

gradient= [-6.32052101e-05 -3.96320373e-05 1.02837247e-04] w = [-0.24523807 0.71379295 2.53144512] w\_new= [-0.2452387 0.71379255 2.53144615]

gradient= [-6.31328908e-05 -3.95893529e-05 1.02722244e-04] w = [-0.2452387 0.71379255 2.53144615] w\_new= [-0.24523933 0.71379216 2.53144717]

gradient= [-6.30606548e-05 -3.95467139e-05 1.02607369e-04] w = [-0.24523933 0.71379216 2.53144717] w\_new= [-0.24523996 0.71379176 2.5314482 ]

gradient= [-6.29885021e-05 -3.95041201e-05 1.02492622e-04] w = [-0.24523996 0.71379176 2.5314482 ] w\_new= [-0.24524059 0.71379137 2.53144922]

gradient= [-6.29164324e-05 -3.94615716e-05 1.02378004e-04] w = [-0.24524059 0.71379137 2.53144922] w\_new= [-0.24524122 0.71379097 2.53145025]

gradient= [-6.28444457e-05 -3.94190683e-05 1.02263514e-04] w = [-0.24524122 0.71379097 2.53145025] w\_new= [-0.24524185 0.71379058 2.53145127]

gradient= [-6.27725420e-05 -3.93766101e-05 1.02149152e-04] w = [-0.24524185 0.71379058 2.53145127] w\_new= [-0.24524248 0.71379018 2.53145229]

gradient= [-6.27007211e-05 -3.93341970e-05 1.02034918e-04] w = [-0.24524248 0.71379018 2.53145229] w\_new= [-0.2452431 0.71378979 2.53145331]

gradient= [-6.26289829e-05 -3.92918290e-05 1.01920812e-04] w = [-0.2452431 0.71378979 2.53145331] w\_new= [-0.24524373 0.7137894 2.53145433]

gradient= [-6.25573274e-05 -3.92495060e-05 1.01806833e-04] w = [-0.24524373 0.7137894 2.53145433] w\_new= [-0.24524435 0.713789 2.53145535]

gradient= [-6.24857544e-05 -3.92072280e-05 1.01692982e-04] w = [-0.24524435 0.713789 2.53145535] w\_new= [-0.24524498 0.71378861 2.53145637]

gradient= [-6.24142638e-05 -3.91649949e-05 1.01579259e-04] w = [-0.24524498 0.71378861 2.53145637] w\_new= [-0.2452456 0.71378822 2.53145738]

gradient= [-6.23428556e-05 -3.91228067e-05 1.01465662e-04] w = [-0.2452456 0.71378822 2.53145738] w\_new= [-0.24524623 0.71378783 2.5314584 ]

gradient= [-6.22715296e-05 -3.90806632e-05 1.01352193e-04] w = [-0.24524623 0.71378783 2.5314584 ] w\_new= [-0.24524685 0.71378744 2.53145941]

gradient= [-6.22002858e-05 -3.90385646e-05 1.01238850e-04] w = [-0.24524685 0.71378744 2.53145941] w\_new= [-0.24524747 0.71378705 2.53146042]

gradient= [-6.21291240e-05 -3.89965107e-05 1.01125635e-04] w = [-0.24524747 0.71378705 2.53146042] w\_new= [-0.24524809 0.71378666 2.53146143]

gradient= [-6.20580442e-05 -3.89545015e-05 1.01012546e-04] w = [-0.24524809 0.71378666 2.53146143] w\_new= [-0.24524871 0.71378627 2.53146244]

gradient= [-6.19870462e-05 -3.89125369e-05 1.00899583e-04] w = [-0.24524871 0.71378627 2.53146244] w\_new= [-0.24524933 0.71378588 2.53146345]

gradient= [-6.19161300e-05 -3.88706169e-05 1.00786747e-04] w = [-0.24524933 0.71378588 2.53146345] w\_new= [-0.24524995 0.71378549 2.53146446]

gradient= [-6.18452955e-05 -3.88287414e-05 1.00674037e-04] w = [-0.24524995 0.71378549 2.53146446] w\_new= [-0.24525057 0.7137851 2.53146547]

gradient= [-6.17745426e-05 -3.87869105e-05 1.00561453e-04] w = [-0.24525057 0.7137851 2.53146547] w\_new= [-0.24525119 0.71378471 2.53146647]

gradient= [-6.17038711e-05 -3.87451240e-05 1.00448995e-04] w = [-0.24525119 0.71378471 2.53146647] w\_new= [-0.24525181 0.71378433 2.53146748]

gradient= [-6.16332811e-05 -3.87033819e-05 1.00336663e-04] w = [-0.24525181 0.71378433 2.53146748] w\_new= [-0.24525242 0.71378394 2.53146848]

gradient= [-6.15627723e-05 -3.86616841e-05 1.00224456e-04] w = [-0.24525242 0.71378394 2.53146848] w\_new= [-0.24525304 0.71378355 2.53146948]

gradient= [-6.14923448e-05 -3.86200307e-05 1.00112375e-04] w = [-0.24525304 0.71378355 2.53146948] w\_new= [-0.24525365 0.71378317 2.53147049]

gradient= [-6.14219983e-05 -3.85784215e-05 1.00000420e-04] w = [-0.24525365 0.71378317 2.53147049] w\_new= [-0.24525427 0.71378278 2.53147149]

gradient= [-6.13517329e-05 -3.85368566e-05 9.98885895e-05] w = [-0.24525427 0.71378278 2.53147149] w\_new= [-0.24525488 0.7137824 2.53147248]

gradient= [-6.12815483e-05 -3.84953358e-05 9.97768842e-05] w = [-0.24525488 0.7137824 2.53147248] w\_new= [-0.24525549 0.71378201 2.53147348]

gradient= [-6.12114447e-05 -3.84538592e-05 9.96653039e-05] w = [-0.24525549 0.71378201 2.53147348] w\_new= [-0.2452561 0.71378163 2.53147448]

gradient= [-6.11414217e-05 -3.84124266e-05 9.95538483e-05] w = [-0.2452561 0.71378163 2.53147448] w\_new= [-0.24525672 0.71378124 2.53147547]

gradient= [-6.10714794e-05 -3.83710381e-05 9.94425175e-05] w = [-0.24525672 0.71378124 2.53147547] w\_new= [-0.24525733 0.71378086 2.53147647]

gradient= [-6.10016176e-05 -3.83296936e-05 9.93313112e-05] w = [-0.24525733 0.71378086 2.53147647] w\_new= [-0.24525794 0.71378048 2.53147746]

gradient= [-6.09318363e-05 -3.82883930e-05 9.92202293e-05] w = [-0.24525794 0.71378048 2.53147746] w\_new= [-0.24525855 0.71378009 2.53147845]

gradient= [-6.08621353e-05 -3.82471363e-05 9.91092716e-05] w = [-0.24525855 0.71378009 2.53147845] w\_new= [-0.24525916 0.71377971 2.53147945]

gradient= [-6.07925146e-05 -3.82059235e-05 9.89984381e-05] w = [-0.24525916 0.71377971 2.53147945] w\_new= [-0.24525976 0.71377933 2.53148044]

gradient= [-6.07229740e-05 -3.81647545e-05 9.88877285e-05] w = [-0.24525976 0.71377933 2.53148044] w\_new= [-0.24526037 0.71377895 2.53148142]

gradient= [-6.06535136e-05 -3.81236292e-05 9.87771428e-05] w = [-0.24526037 0.71377895 2.53148142] w\_new= [-0.24526098 0.71377856 2.53148241]

gradient= [-6.05841331e-05 -3.80825477e-05 9.86666807e-05] w = [-0.24526098 0.71377856 2.53148241] w\_new= [-0.24526158 0.71377818 2.5314834 ]

gradient= [-6.05148325e-05 -3.80415098e-05 9.85563423e-05] w = [-0.24526158 0.71377818 2.5314834 ] w\_new= [-0.24526219 0.7137778 2.53148438]

gradient= [-6.04456117e-05 -3.80005155e-05 9.84461272e-05] w = [-0.24526219 0.7137778 2.53148438] w\_new= [-0.24526279 0.71377742 2.53148537]

gradient= [-6.03764706e-05 -3.79595649e-05 9.83360355e-05] w = [-0.24526279 0.71377742 2.53148537] w\_new= [-0.2452634 0.71377704 2.53148635]

gradient= [-6.03074091e-05 -3.79186577e-05 9.82260668e-05] w = [-0.2452634 0.71377704 2.53148635] w\_new= [-0.245264 0.71377666 2.53148733]

gradient= [-6.02384272e-05 -3.78777941e-05 9.81162212e-05] w = [-0.245264 0.71377666 2.53148733] w\_new= [-0.2452646 0.71377629 2.53148832]

gradient= [-6.01695247e-05 -3.78369739e-05 9.80064985e-05] w = [-0.2452646 0.71377629 2.53148832] w\_new= [-0.2452652 0.71377591 2.5314893 ]

gradient= [-6.01007015e-05 -3.77961970e-05 9.78968985e-05] w = [-0.2452652 0.71377591 2.5314893 ] w\_new= [-0.2452658 0.71377553 2.53149027]

gradient= [-6.00319575e-05 -3.77554636e-05 9.77874211e-05] w = [-0.2452658 0.71377553 2.53149027] w\_new= [-0.2452664 0.71377515 2.53149125]

gradient= [-5.99632927e-05 -3.77147734e-05 9.76780662e-05] w = [-0.2452664 0.71377515 2.53149125] w\_new= [-0.245267 0.71377477 2.53149223]

gradient= [-5.98947070e-05 -3.76741265e-05 9.75688335e-05] w = [-0.245267 0.71377477 2.53149223] w\_new= [-0.2452676 0.7137744 2.5314932]

gradient= [-5.98262002e-05 -3.76335229e-05 9.74597231e-05] w = [-0.2452676 0.7137744 2.5314932] w\_new= [-0.2452682 0.71377402 2.53149418]

gradient= [-5.97577723e-05 -3.75929624e-05 9.73507347e-05] w = [-0.2452682 0.71377402 2.53149418] w\_new= [-0.2452688 0.71377365 2.53149515]

gradient= [-5.96894232e-05 -3.75524450e-05 9.72418682e-05] w = [-0.2452688 0.71377365 2.53149515] w\_new= [-0.2452694 0.71377327 2.53149613]

gradient= [-5.96211528e-05 -3.75119707e-05 9.71331235e-05] w = [-0.2452694 0.71377327 2.53149613] w\_new= [-0.24526999 0.7137729 2.5314971 ]

gradient= [-5.95529610e-05 -3.74715395e-05 9.70245005e-05] w = [-0.24526999 0.7137729 2.5314971 ] w\_new= [-0.24527059 0.71377252 2.53149807]

gradient= [-5.94848477e-05 -3.74311512e-05 9.69159989e-05] w = [-0.24527059 0.71377252 2.53149807] w\_new= [-0.24527118 0.71377215 2.53149904]

gradient= [-5.94168128e-05 -3.73908059e-05 9.68076187e-05] w = [-0.24527118 0.71377215 2.53149904] w\_new= [-0.24527178 0.71377177 2.5315 ]

gradient= [-5.93488563e-05 -3.73505035e-05 9.66993598e-05] w = [-0.24527178 0.71377177 2.5315 ] w\_new= [-0.24527237 0.7137714 2.53150097]

gradient= [-5.92809780e-05 -3.73102439e-05 9.65912219e-05] w = [-0.24527237 0.7137714 2.53150097] w\_new= [-0.24527296 0.71377103 2.53150194]

gradient= [-5.92131778e-05 -3.72700272e-05 9.64832050e-05] w = [-0.24527296 0.71377103 2.53150194] w\_new= [-0.24527355 0.71377065 2.5315029 ]

gradient= [-5.91454557e-05 -3.72298532e-05 9.63753089e-05] w = [-0.24527355 0.71377065 2.5315029 ] w\_new= [-0.24527415 0.71377028 2.53150387]

gradient= [-5.90778115e-05 -3.71897219e-05 9.62675335e-05] w = [-0.24527415 0.71377028 2.53150387] w\_new= [-0.24527474 0.71376991 2.53150483]

gradient= [-5.90102453e-05 -3.71496334e-05 9.61598787e-05] w = [-0.24527474 0.71376991 2.53150483] w\_new= [-0.24527533 0.71376954 2.53150579]

gradient= [-5.89427568e-05 -3.71095874e-05 9.60523442e-05] w = [-0.24527533 0.71376954 2.53150579] w\_new= [-0.24527592 0.71376917 2.53150675]

gradient= [-5.88753460e-05 -3.70695841e-05 9.59449301e-05] w = [-0.24527592 0.71376917 2.53150675] w\_new= [-0.24527651 0.7137688 2.53150771]

gradient= [-5.88080128e-05 -3.70296233e-05 9.58376361e-05] w = [-0.24527651 0.7137688 2.53150771] w\_new= [-0.24527709 0.71376843 2.53150867]

gradient= [-5.87407571e-05 -3.69897050e-05 9.57304621e-05] w = [-0.24527709 0.71376843 2.53150867] w\_new= [-0.24527768 0.71376806 2.53150963]

gradient= [-5.86735789e-05 -3.69498292e-05 9.56234080e-05] w = [-0.24527768 0.71376806 2.53150963] w\_new= [-0.24527827 0.71376769 2.53151058]

gradient= [-5.86064780e-05 -3.69099957e-05 9.55164737e-05] w = [-0.24527827 0.71376769 2.53151058] w\_new= [-0.24527885 0.71376732 2.53151154]

gradient= [-5.85394543e-05 -3.68702047e-05 9.54096589e-05] w = [-0.24527885 0.71376732 2.53151154] w\_new= [-0.24527944 0.71376695 2.53151249]

gradient= [-5.84725078e-05 -3.68304559e-05 9.53029637e-05] w = [-0.24527944 0.71376695 2.53151249] w\_new= [-0.24528002 0.71376658 2.53151344]

gradient= [-5.84056383e-05 -3.67907495e-05 9.51963878e-05] w = [-0.24528002 0.71376658 2.53151344] w\_new= [-0.24528061 0.71376621 2.5315144 ]

gradient= [-5.83388458e-05 -3.67510852e-05 9.50899311e-05] w = [-0.24528061 0.71376621 2.5315144 ] w\_new= [-0.24528119 0.71376584 2.53151535]

gradient= [-5.82721302e-05 -3.67114632e-05 9.49835934e-05] w = [-0.24528119 0.71376584 2.53151535] w\_new= [-0.24528177 0.71376548 2.5315163 ]

gradient= [-5.82054914e-05 -3.66718833e-05 9.48773748e-05] w = [-0.24528177 0.71376548 2.5315163 ] w\_new= [-0.24528236 0.71376511 2.53151725]

gradient= [-5.81389293e-05 -3.66323456e-05 9.47712749e-05] w = [-0.24528236 0.71376511 2.53151725] w\_new= [-0.24528294 0.71376474 2.53151819]

gradient= [-5.80724439e-05 -3.65928498e-05 9.46652937e-05] w = [-0.24528294 0.71376474 2.53151819] w\_new= [-0.24528352 0.71376438 2.53151914]

gradient= [-5.80060349e-05 -3.65533961e-05 9.45594311e-05] w = [-0.24528352 0.71376438 2.53151914] w\_new= [-0.2452841 0.71376401 2.53152009]

gradient= [-5.79397024e-05 -3.65139844e-05 9.44536868e-05] w = [-0.2452841 0.71376401 2.53152009] w\_new= [-0.24528468 0.71376365 2.53152103]

gradient= [-5.78734463e-05 -3.64746146e-05 9.43480609e-05] w = [-0.24528468 0.71376365 2.53152103] w\_new= [-0.24528526 0.71376328 2.53152197]

gradient= [-5.78072664e-05 -3.64352867e-05 9.42425531e-05] w = [-0.24528526 0.71376328 2.53152197] w\_new= [-0.24528583 0.71376292 2.53152292]

gradient= [-5.77411627e-05 -3.63960006e-05 9.41371633e-05] w = [-0.24528583 0.71376292 2.53152292] w\_new= [-0.24528641 0.71376255 2.53152386]

gradient= [-5.76751350e-05 -3.63567563e-05 9.40318914e-05] w = [-0.24528641 0.71376255 2.53152386] w\_new= [-0.24528699 0.71376219 2.5315248 ]

gradient= [-5.76091834e-05 -3.63175538e-05 9.39267372e-05] w = [-0.24528699 0.71376219 2.5315248 ] w\_new= [-0.24528756 0.71376183 2.53152574]

gradient= [-5.75433077e-05 -3.62783930e-05 9.38217007e-05] w = [-0.24528756 0.71376183 2.53152574] w\_new= [-0.24528814 0.71376147 2.53152668]

gradient= [-5.74775078e-05 -3.62392738e-05 9.37167816e-05] w = [-0.24528814 0.71376147 2.53152668] w\_new= [-0.24528871 0.7137611 2.53152761]

gradient= [-5.74117836e-05 -3.62001963e-05 9.36119799e-05] w = [-0.24528871 0.7137611 2.53152761] w\_new= [-0.24528929 0.71376074 2.53152855]

gradient= [-5.73461351e-05 -3.61611604e-05 9.35072955e-05] w = [-0.24528929 0.71376074 2.53152855] w\_new= [-0.24528986 0.71376038 2.53152948]

gradient= [-5.72805621e-05 -3.61221659e-05 9.34027281e-05] w = [-0.24528986 0.71376038 2.53152948] w\_new= [-0.24529044 0.71376002 2.53153042]

gradient= [-5.72150647e-05 -3.60832130e-05 9.32982777e-05] w = [-0.24529044 0.71376002 2.53153042] w\_new= [-0.24529101 0.71375966 2.53153135]

gradient= [-5.71496425e-05 -3.60443015e-05 9.31939441e-05] w = [-0.24529101 0.71375966 2.53153135] w\_new= [-0.24529158 0.7137593 2.53153228]

gradient= [-5.70842957e-05 -3.60054315e-05 9.30897272e-05] w = [-0.24529158 0.7137593 2.53153228] w\_new= [-0.24529215 0.71375894 2.53153321]

gradient= [-5.70190241e-05 -3.59666028e-05 9.29856269e-05] w = [-0.24529215 0.71375894 2.53153321] w\_new= [-0.24529272 0.71375858 2.53153414]

gradient= [-5.69538276e-05 -3.59278154e-05 9.28816430e-05] w = [-0.24529272 0.71375858 2.53153414] w\_new= [-0.24529329 0.71375822 2.53153507]

gradient= [-5.68887062e-05 -3.58890693e-05 9.27777755e-05] w = [-0.24529329 0.71375822 2.53153507] w\_new= [-0.24529386 0.71375786 2.531536 ]

gradient= [-5.68236597e-05 -3.58503644e-05 9.26740241e-05] w = [-0.24529386 0.71375786 2.531536 ] w\_new= [-0.24529443 0.7137575 2.53153693]

gradient= [-5.67586880e-05 -3.58117007e-05 9.25703888e-05] w = [-0.24529443 0.7137575 2.53153693] w\_new= [-0.24529499 0.71375714 2.53153785]

gradient= [-5.66937912e-05 -3.57730782e-05 9.24668694e-05] w = [-0.24529499 0.71375714 2.53153785] w\_new= [-0.24529556 0.71375678 2.53153878]

gradient= [-5.66289690e-05 -3.57344968e-05 9.23634657e-05] w = [-0.24529556 0.71375678 2.53153878] w\_new= [-0.24529613 0.71375643 2.5315397 ]

gradient= [-5.65642214e-05 -3.56959564e-05 9.22601778e-05] w = [-0.24529613 0.71375643 2.5315397 ] w\_new= [-0.24529669 0.71375607 2.53154062]

gradient= [-5.64995483e-05 -3.56574570e-05 9.21570053e-05] w = [-0.24529669 0.71375607 2.53154062] w\_new= [-0.24529726 0.71375571 2.53154154]

gradient= [-5.64349497e-05 -3.56189987e-05 9.20539483e-05] w = [-0.24529726 0.71375571 2.53154154] w\_new= [-0.24529782 0.71375536 2.53154247]

gradient= [-5.63704254e-05 -3.55805812e-05 9.19510066e-05] w = [-0.24529782 0.71375536 2.53154247] w\_new= [-0.24529839 0.713755 2.53154338]

gradient= [-5.63059753e-05 -3.55422047e-05 9.18481799e-05] w = [-0.24529839 0.713755 2.53154338] w\_new= [-0.24529895 0.71375465 2.5315443 ]

gradient= [-5.62415994e-05 -3.55038689e-05 9.17454683e-05] w = [-0.24529895 0.71375465 2.5315443 ] w\_new= [-0.24529951 0.71375429 2.53154522]

gradient= [-5.61772976e-05 -3.54655740e-05 9.16428716e-05] w = [-0.24529951 0.71375429 2.53154522] w\_new= [-0.24530007 0.71375394 2.53154614]

gradient= [-5.61130698e-05 -3.54273199e-05 9.15403897e-05] w = [-0.24530007 0.71375394 2.53154614] w\_new= [-0.24530063 0.71375358 2.53154705]

gradient= [-5.60489159e-05 -3.53891065e-05 9.14380223e-05] w = [-0.24530063 0.71375358 2.53154705] w\_new= [-0.24530119 0.71375323 2.53154797]

gradient= [-5.59848358e-05 -3.53509337e-05 9.13357695e-05] w = [-0.24530119 0.71375323 2.53154797] w\_new= [-0.24530175 0.71375287 2.53154888]

gradient= [-5.59208294e-05 -3.53128016e-05 9.12336311e-05] w = [-0.24530175 0.71375287 2.53154888] w\_new= [-0.24530231 0.71375252 2.53154979]

gradient= [-5.58568967e-05 -3.52747101e-05 9.11316068e-05] w = [-0.24530231 0.71375252 2.53154979] w\_new= [-0.24530287 0.71375217 2.5315507 ]

gradient= [-5.57930376e-05 -3.52366591e-05 9.10296967e-05] w = [-0.24530287 0.71375217 2.5315507 ] w\_new= [-0.24530343 0.71375182 2.53155161]

gradient= [-5.57292520e-05 -3.51986487e-05 9.09279006e-05] w = [-0.24530343 0.71375182 2.53155161] w\_new= [-0.24530399 0.71375146 2.53155252]

gradient= [-5.56655397e-05 -3.51606787e-05 9.08262184e-05] w = [-0.24530399 0.71375146 2.53155252] w\_new= [-0.24530454 0.71375111 2.53155343]

gradient= [-5.56019008e-05 -3.51227491e-05 9.07246499e-05] w = [-0.24530454 0.71375111 2.53155343] w\_new= [-0.2453051 0.71375076 2.53155434]

gradient= [-5.55383351e-05 -3.50848599e-05 9.06231950e-05] w = [-0.2453051 0.71375076 2.53155434] w\_new= [-0.24530566 0.71375041 2.53155525]

gradient= [-5.54748425e-05 -3.50470110e-05 9.05218535e-05] w = [-0.24530566 0.71375041 2.53155525] w\_new= [-0.24530621 0.71375006 2.53155615]

gradient= [-5.54114230e-05 -3.50092025e-05 9.04206255e-05] w = [-0.24530621 0.71375006 2.53155615] w\_new= [-0.24530676 0.71374971 2.53155705]

gradient= [-5.53480764e-05 -3.49714342e-05 9.03195106e-05] w = [-0.24530676 0.71374971 2.53155705] w\_new= [-0.24530732 0.71374936 2.53155796]

gradient= [-5.52848028e-05 -3.49337061e-05 9.02185088e-05] w = [-0.24530732 0.71374936 2.53155796] w\_new= [-0.24530787 0.71374901 2.53155886]

gradient= [-5.52216019e-05 -3.48960181e-05 9.01176201e-05] w = [-0.24530787 0.71374901 2.53155886] w\_new= [-0.24530842 0.71374866 2.53155976]

gradient= [-5.51584738e-05 -3.48583704e-05 9.00168441e-05] w = [-0.24530842 0.71374866 2.53155976] w\_new= [-0.24530897 0.71374831 2.53156066]

gradient= [-5.50954183e-05 -3.48207626e-05 8.99161809e-05] w = [-0.24530897 0.71374831 2.53156066] w\_new= [-0.24530953 0.71374797 2.53156156]

gradient= [-5.50324353e-05 -3.47831950e-05 8.98156303e-05] w = [-0.24530953 0.71374797 2.53156156] w\_new= [-0.24531008 0.71374762 2.53156246]

gradient= [-5.49695248e-05 -3.47456673e-05 8.97151921e-05] w = [-0.24531008 0.71374762 2.53156246] w\_new= [-0.24531063 0.71374727 2.53156336]

gradient= [-5.49066867e-05 -3.47081796e-05 8.96148663e-05] w = [-0.24531063 0.71374727 2.53156336] w\_new= [-0.24531117 0.71374692 2.53156425]

gradient= [-5.48439209e-05 -3.46707318e-05 8.95146527e-05] w = [-0.24531117 0.71374692 2.53156425] w\_new= [-0.24531172 0.71374658 2.53156515]

gradient= [-5.47812273e-05 -3.46333239e-05 8.94145512e-05] w = [-0.24531172 0.71374658 2.53156515] w\_new= [-0.24531227 0.71374623 2.53156604]

gradient= [-5.47186058e-05 -3.45959558e-05 8.93145616e-05] w = [-0.24531227 0.71374623 2.53156604] w\_new= [-0.24531282 0.71374588 2.53156693]

gradient= [-5.46560564e-05 -3.45586275e-05 8.92146839e-05] w = [-0.24531282 0.71374588 2.53156693] w\_new= [-0.24531336 0.71374554 2.53156783]

gradient= [-5.45935789e-05 -3.45213390e-05 8.91149179e-05] w = [-0.24531336 0.71374554 2.53156783] w\_new= [-0.24531391 0.71374519 2.53156872]

gradient= [-5.45311733e-05 -3.44840902e-05 8.90152635e-05] w = [-0.24531391 0.71374519 2.53156872] w\_new= [-0.24531446 0.71374485 2.53156961]

gradient= [-5.44688395e-05 -3.44468810e-05 8.89157205e-05] w = [-0.24531446 0.71374485 2.53156961] w\_new= [-0.245315 0.7137445 2.5315705]

gradient= [-5.44065774e-05 -3.44097115e-05 8.88162889e-05] w = [-0.245315 0.7137445 2.5315705] w\_new= [-0.24531554 0.71374416 2.53157139]

gradient= [-5.43443870e-05 -3.43725816e-05 8.87169685e-05] w = [-0.24531554 0.71374416 2.53157139] w\_new= [-0.24531609 0.71374382 2.53157227]

gradient= [-5.42822681e-05 -3.43354912e-05 8.86177592e-05] w = [-0.24531609 0.71374382 2.53157227] w\_new= [-0.24531663 0.71374347 2.53157316]

gradient= [-5.42202206e-05 -3.42984403e-05 8.85186609e-05] w = [-0.24531663 0.71374347 2.53157316] w\_new= [-0.24531717 0.71374313 2.53157404]

gradient= [-5.41582446e-05 -3.42614288e-05 8.84196734e-05] w = [-0.24531717 0.71374313 2.53157404] w\_new= [-0.24531771 0.71374279 2.53157493]

gradient= [-5.40963398e-05 -3.42244568e-05 8.83207966e-05] w = [-0.24531771 0.71374279 2.53157493] w\_new= [-0.24531826 0.71374244 2.53157581]

gradient= [-5.40345062e-05 -3.41875242e-05 8.82220304e-05] w = [-0.24531826 0.71374244 2.53157581] w\_new= [-0.2453188 0.7137421 2.53157669]

gradient= [-5.39727438e-05 -3.41506309e-05 8.81233747e-05] w = [-0.2453188 0.7137421 2.53157669] w\_new= [-0.24531934 0.71374176 2.53157757]

gradient= [-5.39110524e-05 -3.41137769e-05 8.80248293e-05] w = [-0.24531934 0.71374176 2.53157757] w\_new= [-0.24531988 0.71374142 2.53157845]

gradient= [-5.38494320e-05 -3.40769622e-05 8.79263942e-05] w = [-0.24531988 0.71374142 2.53157845] w\_new= [-0.24532041 0.71374108 2.53157933]

gradient= [-5.37878825e-05 -3.40401866e-05 8.78280691e-05] w = [-0.24532041 0.71374108 2.53157933] w\_new= [-0.24532095 0.71374074 2.53158021]

gradient= [-5.37264038e-05 -3.40034503e-05 8.77298541e-05] w = [-0.24532095 0.71374074 2.53158021] w\_new= [-0.24532149 0.7137404 2.53158109]

gradient= [-5.36649958e-05 -3.39667531e-05 8.76317488e-05] w = [-0.24532149 0.7137404 2.53158109] w\_new= [-0.24532203 0.71374006 2.53158197]

gradient= [-5.36036584e-05 -3.39300949e-05 8.75337533e-05] w = [-0.24532203 0.71374006 2.53158197] w\_new= [-0.24532256 0.71373972 2.53158284]

gradient= [-5.35423916e-05 -3.38934759e-05 8.74358674e-05] w = [-0.24532256 0.71373972 2.53158284] w\_new= [-0.2453231 0.71373938 2.53158372]

gradient= [-5.34811952e-05 -3.38568958e-05 8.73380910e-05] w = [-0.2453231 0.71373938 2.53158372] w\_new= [-0.24532363 0.71373904 2.53158459]

gradient= [-5.34200693e-05 -3.38203547e-05 8.72404240e-05] w = [-0.24532363 0.71373904 2.53158459] w\_new= [-0.24532417 0.7137387 2.53158546]

gradient= [-5.33590137e-05 -3.37838525e-05 8.71428662e-05] w = [-0.24532417 0.7137387 2.53158546] w\_new= [-0.2453247 0.71373837 2.53158633]

gradient= [-5.32980283e-05 -3.37473893e-05 8.70454175e-05] w = [-0.2453247 0.71373837 2.53158633] w\_new= [-0.24532523 0.71373803 2.5315872 ]

gradient= [-5.32371130e-05 -3.37109648e-05 8.69480778e-05] w = [-0.24532523 0.71373803 2.5315872 ] w\_new= [-0.24532576 0.71373769 2.53158807]

gradient= [-5.31762678e-05 -3.36745792e-05 8.68508470e-05] w = [-0.24532576 0.71373769 2.53158807] w\_new= [-0.2453263 0.71373736 2.53158894]

gradient= [-5.31154926e-05 -3.36382323e-05 8.67537249e-05] w = [-0.2453263 0.71373736 2.53158894] w\_new= [-0.24532683 0.71373702 2.53158981]

gradient= [-5.30547873e-05 -3.36019242e-05 8.66567115e-05] w = [-0.24532683 0.71373702 2.53158981] w\_new= [-0.24532736 0.71373668 2.53159068]

gradient= [-5.29941518e-05 -3.35656548e-05 8.65598066e-05] w = [-0.24532736 0.71373668 2.53159068] w\_new= [-0.24532789 0.71373635 2.53159154]

gradient= [-5.29335861e-05 -3.35294239e-05 8.64630100e-05] w = [-0.24532789 0.71373635 2.53159154] w\_new= [-0.24532842 0.71373601 2.53159241]

gradient= [-5.28730900e-05 -3.34932317e-05 8.63663217e-05] w = [-0.24532842 0.71373601 2.53159241] w\_new= [-0.24532895 0.71373568 2.53159327]

gradient= [-5.28126635e-05 -3.34570781e-05 8.62697416e-05] w = [-0.24532895 0.71373568 2.53159327] w\_new= [-0.24532947 0.71373534 2.53159413]

gradient= [-5.27523065e-05 -3.34209630e-05 8.61732695e-05] w = [-0.24532947 0.71373534 2.53159413] w\_new= [-0.24533 0.71373501 2.53159499]

gradient= [-5.26920189e-05 -3.33848864e-05 8.60769053e-05] w = [-0.24533 0.71373501 2.53159499] w\_new= [-0.24533053 0.71373467 2.53159585]

gradient= [-5.26318007e-05 -3.33488482e-05 8.59806488e-05] w = [-0.24533053 0.71373467 2.53159585] w\_new= [-0.24533106 0.71373434 2.53159671]

gradient= [-5.25716517e-05 -3.33128484e-05 8.58845001e-05] w = [-0.24533106 0.71373434 2.53159671] w\_new= [-0.24533158 0.71373401 2.53159757]

gradient= [-5.25115719e-05 -3.32768870e-05 8.57884588e-05] w = [-0.24533158 0.71373401 2.53159757] w\_new= [-0.24533211 0.71373367 2.53159843]

gradient= [-5.24515612e-05 -3.32409639e-05 8.56925250e-05] w = [-0.24533211 0.71373367 2.53159843] w\_new= [-0.24533263 0.71373334 2.53159929]

gradient= [-5.23916195e-05 -3.32050790e-05 8.55966985e-05] w = [-0.24533263 0.71373334 2.53159929] w\_new= [-0.24533315 0.71373301 2.53160014]

gradient= [-5.23317467e-05 -3.31692325e-05 8.55009792e-05] w = [-0.24533315 0.71373301 2.53160014] w\_new= [-0.24533368 0.71373268 2.531601 ]

gradient= [-5.22719428e-05 -3.31334241e-05 8.54053669e-05] w = [-0.24533368 0.71373268 2.531601 ] w\_new= [-0.2453342 0.71373235 2.53160185]

gradient= [-5.22122077e-05 -3.30976539e-05 8.53098616e-05] w = [-0.2453342 0.71373235 2.53160185] w\_new= [-0.24533472 0.71373202 2.53160271]

gradient= [-5.21525413e-05 -3.30619218e-05 8.52144631e-05] w = [-0.24533472 0.71373202 2.53160271] w\_new= [-0.24533524 0.71373169 2.53160356]

gradient= [-5.20929435e-05 -3.30262278e-05 8.51191712e-05] w = [-0.24533524 0.71373169 2.53160356] w\_new= [-0.24533577 0.71373136 2.53160441]

gradient= [-5.20334142e-05 -3.29905718e-05 8.50239860e-05] w = [-0.24533577 0.71373136 2.53160441] w\_new= [-0.24533629 0.71373103 2.53160526]

gradient= [-5.19739534e-05 -3.29549538e-05 8.49289072e-05] w = [-0.24533629 0.71373103 2.53160526] w\_new= [-0.24533681 0.7137307 2.53160611]

gradient= [-5.19145610e-05 -3.29193738e-05 8.48339348e-05] w = [-0.24533681 0.7137307 2.53160611] w\_new= [-0.24533732 0.71373037 2.53160696]

gradient= [-5.18552368e-05 -3.28838318e-05 8.47390686e-05] w = [-0.24533732 0.71373037 2.53160696] w\_new= [-0.24533784 0.71373004 2.5316078 ]

gradient= [-5.17959809e-05 -3.28483276e-05 8.46443085e-05] w = [-0.24533784 0.71373004 2.5316078 ] w\_new= [-0.24533836 0.71372971 2.53160865]

gradient= [-5.17367932e-05 -3.28128612e-05 8.45496544e-05] w = [-0.24533836 0.71372971 2.53160865] w\_new= [-0.24533888 0.71372938 2.5316095 ]

gradient= [-5.16776735e-05 -3.27774327e-05 8.44551061e-05] w = [-0.24533888 0.71372938 2.5316095 ] w\_new= [-0.24533939 0.71372905 2.53161034]

gradient= [-5.16186217e-05 -3.27420419e-05 8.43606636e-05] w = [-0.24533939 0.71372905 2.53161034] w\_new= [-0.24533991 0.71372873 2.53161118]

gradient= [-5.15596379e-05 -3.27066888e-05 8.42663268e-05] w = [-0.24533991 0.71372873 2.53161118] w\_new= [-0.24534043 0.7137284 2.53161203]

gradient= [-5.15007219e-05 -3.26713735e-05 8.41720954e-05] w = [-0.24534043 0.7137284 2.53161203] w\_new= [-0.24534094 0.71372807 2.53161287]

gradient= [-5.14418737e-05 -3.26360957e-05 8.40779694e-05] w = [-0.24534094 0.71372807 2.53161287] w\_new= [-0.24534146 0.71372775 2.53161371]

gradient= [-5.13830931e-05 -3.26008556e-05 8.39839487e-05] w = [-0.24534146 0.71372775 2.53161371] w\_new= [-0.24534197 0.71372742 2.53161455]

gradient= [-5.13243802e-05 -3.25656531e-05 8.38900332e-05] w = [-0.24534197 0.71372742 2.53161455] w\_new= [-0.24534248 0.71372709 2.53161539]

gradient= [-5.12657347e-05 -3.25304880e-05 8.37962227e-05] w = [-0.24534248 0.71372709 2.53161539] w\_new= [-0.245343 0.71372677 2.53161623]

gradient= [-5.12071567e-05 -3.24953605e-05 8.37025172e-05] w = [-0.245343 0.71372677 2.53161623] w\_new= [-0.24534351 0.71372644 2.53161706]

gradient= [-5.11486460e-05 -3.24602704e-05 8.36089164e-05] w = [-0.24534351 0.71372644 2.53161706] w\_new= [-0.24534402 0.71372612 2.5316179 ]

gradient= [-5.10902026e-05 -3.24252177e-05 8.35154203e-05] w = [-0.24534402 0.71372612 2.5316179 ] w\_new= [-0.24534453 0.7137258 2.53161873]

gradient= [-5.10318264e-05 -3.23902024e-05 8.34220288e-05] w = [-0.24534453 0.7137258 2.53161873] w\_new= [-0.24534504 0.71372547 2.53161957]

gradient= [-5.09735173e-05 -3.23552245e-05 8.33287418e-05] w = [-0.24534504 0.71372547 2.53161957] w\_new= [-0.24534555 0.71372515 2.5316204 ]

gradient= [-5.09152753e-05 -3.23202838e-05 8.32355591e-05] w = [-0.24534555 0.71372515 2.5316204 ] w\_new= [-0.24534606 0.71372482 2.53162123]

gradient= [-5.08571002e-05 -3.22853804e-05 8.31424806e-05] w = [-0.24534606 0.71372482 2.53162123] w\_new= [-0.24534657 0.7137245 2.53162207]

gradient= [-5.07989920e-05 -3.22505141e-05 8.30495062e-05] w = [-0.24534657 0.7137245 2.53162207] w\_new= [-0.24534708 0.71372418 2.5316229 ]

gradient= [-5.07409507e-05 -3.22156851e-05 8.29566358e-05] w = [-0.24534708 0.71372418 2.5316229 ] w\_new= [-0.24534758 0.71372386 2.53162373]

gradient= [-5.06829760e-05 -3.21808932e-05 8.28638693e-05] w = [-0.24534758 0.71372386 2.53162373] w\_new= [-0.24534809 0.71372354 2.53162455]

gradient= [-5.06250681e-05 -3.21461384e-05 8.27712065e-05] w = [-0.24534809 0.71372354 2.53162455] w\_new= [-0.2453486 0.71372321 2.53162538]

gradient= [-5.05672267e-05 -3.21114207e-05 8.26786473e-05] w = [-0.2453486 0.71372321 2.53162538] w\_new= [-0.2453491 0.71372289 2.53162621]

gradient= [-5.05094518e-05 -3.20767399e-05 8.25861917e-05] w = [-0.2453491 0.71372289 2.53162621] w\_new= [-0.24534961 0.71372257 2.53162704]

gradient= [-5.04517433e-05 -3.20420962e-05 8.24938395e-05] w = [-0.24534961 0.71372257 2.53162704] w\_new= [-0.24535011 0.71372225 2.53162786]

gradient= [-5.03941012e-05 -3.20074894e-05 8.24015906e-05] w = [-0.24535011 0.71372225 2.53162786] w\_new= [-0.24535062 0.71372193 2.53162868]

gradient= [-5.03365254e-05 -3.19729195e-05 8.23094449e-05] w = [-0.24535062 0.71372193 2.53162868] w\_new= [-0.24535112 0.71372161 2.53162951]

gradient= [-5.02790157e-05 -3.19383865e-05 8.22174022e-05] w = [-0.24535112 0.71372161 2.53162951] w\_new= [-0.24535162 0.71372129 2.53163033]

gradient= [-5.02215722e-05 -3.19038903e-05 8.21254624e-05] w = [-0.24535162 0.71372129 2.53163033] w\_new= [-0.24535212 0.71372097 2.53163115]

gradient= [-5.01641947e-05 -3.18694309e-05 8.20336255e-05] w = [-0.24535212 0.71372097 2.53163115] w\_new= [-0.24535263 0.71372065 2.53163197]

gradient= [-5.01068831e-05 -3.18350082e-05 8.19418913e-05] w = [-0.24535263 0.71372065 2.53163197] w\_new= [-0.24535313 0.71372034 2.53163279]

gradient= [-5.00496375e-05 -3.18006222e-05 8.18502598e-05] w = [-0.24535313 0.71372034 2.53163279] w\_new= [-0.24535363 0.71372002 2.53163361]

gradient= [-4.99924577e-05 -3.17662730e-05 8.17587306e-05] w = [-0.24535363 0.71372002 2.53163361] w\_new= [-0.24535413 0.7137197 2.53163443]

gradient= [-4.99353436e-05 -3.17319603e-05 8.16673039e-05] w = [-0.24535413 0.7137197 2.53163443] w\_new= [-0.24535463 0.71371938 2.53163524]

gradient= [-4.98782951e-05 -3.16976843e-05 8.15759794e-05] w = [-0.24535463 0.71371938 2.53163524] w\_new= [-0.24535513 0.71371907 2.53163606]

gradient= [-4.98213123e-05 -3.16634448e-05 8.14847571e-05] w = [-0.24535513 0.71371907 2.53163606] w\_new= [-0.24535562 0.71371875 2.53163687]

gradient= [-4.97643949e-05 -3.16292418e-05 8.13936368e-05] w = [-0.24535562 0.71371875 2.53163687] w\_new= [-0.24535612 0.71371843 2.53163769]

gradient= [-4.97075430e-05 -3.15950753e-05 8.13026183e-05] w = [-0.24535612 0.71371843 2.53163769] w\_new= [-0.24535662 0.71371812 2.5316385 ]

gradient= [-4.96507565e-05 -3.15609453e-05 8.12117017e-05] w = [-0.24535662 0.71371812 2.5316385 ] w\_new= [-0.24535711 0.7137178 2.53163931]

gradient= [-4.95940352e-05 -3.15268516e-05 8.11208868e-05] w = [-0.24535711 0.7137178 2.53163931] w\_new= [-0.24535761 0.71371749 2.53164012]

gradient= [-4.95373791e-05 -3.14927943e-05 8.10301735e-05] w = [-0.24535761 0.71371749 2.53164012] w\_new= [-0.24535811 0.71371717 2.53164093]

gradient= [-4.94807882e-05 -3.14587734e-05 8.09395616e-05] w = [-0.24535811 0.71371717 2.53164093] w\_new= [-0.2453586 0.71371686 2.53164174]

gradient= [-4.94242623e-05 -3.14247887e-05 8.08490510e-05] w = [-0.2453586 0.71371686 2.53164174] w\_new= [-0.2453591 0.71371654 2.53164255]

gradient= [-4.93678014e-05 -3.13908403e-05 8.07586417e-05] w = [-0.2453591 0.71371654 2.53164255] w\_new= [-0.24535959 0.71371623 2.53164336]

gradient= [-4.93114054e-05 -3.13569281e-05 8.06683335e-05] w = [-0.24535959 0.71371623 2.53164336] w\_new= [-0.24536008 0.71371592 2.53164417]

gradient= [-4.92550742e-05 -3.13230521e-05 8.05781263e-05] w = [-0.24536008 0.71371592 2.53164417] w\_new= [-0.24536057 0.7137156 2.53164497]

gradient= [-4.91988077e-05 -3.12892122e-05 8.04880200e-05] w = [-0.24536057 0.7137156 2.53164497] w\_new= [-0.24536107 0.71371529 2.53164578]

gradient= [-4.91426060e-05 -3.12554085e-05 8.03980144e-05] w = [-0.24536107 0.71371529 2.53164578] w\_new= [-0.24536156 0.71371498 2.53164658]

gradient= [-4.90864688e-05 -3.12216407e-05 8.03081096e-05] w = [-0.24536156 0.71371498 2.53164658] w\_new= [-0.24536205 0.71371466 2.53164738]

gradient= [-4.90303962e-05 -3.11879091e-05 8.02183053e-05] w = [-0.24536205 0.71371466 2.53164738] w\_new= [-0.24536254 0.71371435 2.53164819]

gradient= [-4.89743880e-05 -3.11542134e-05 8.01286014e-05] w = [-0.24536254 0.71371435 2.53164819] w\_new= [-0.24536303 0.71371404 2.53164899]

gradient= [-4.89184442e-05 -3.11205536e-05 8.00389978e-05] w = [-0.24536303 0.71371404 2.53164899] w\_new= [-0.24536352 0.71371373 2.53164979]

gradient= [-4.88625647e-05 -3.10869298e-05 7.99494945e-05] w = [-0.24536352 0.71371373 2.53164979] w\_new= [-0.24536401 0.71371342 2.53165059]

gradient= [-4.88067495e-05 -3.10533418e-05 7.98600913e-05] w = [-0.24536401 0.71371342 2.53165059] w\_new= [-0.24536449 0.71371311 2.53165139]

gradient= [-4.87509983e-05 -3.10197897e-05 7.97707880e-05] w = [-0.24536449 0.71371311 2.53165139] w\_new= [-0.24536498 0.7137128 2.53165218]

gradient= [-4.86953113e-05 -3.09862733e-05 7.96815846e-05] w = [-0.24536498 0.7137128 2.53165218] w\_new= [-0.24536547 0.71371249 2.53165298]

gradient= [-4.86396883e-05 -3.09527928e-05 7.95924811e-05] w = [-0.24536547 0.71371249 2.53165298] w\_new= [-0.24536596 0.71371218 2.53165378]

gradient= [-4.85841292e-05 -3.09193479e-05 7.95034771e-05] w = [-0.24536596 0.71371218 2.53165378] w\_new= [-0.24536644 0.71371187 2.53165457]

gradient= [-4.85286340e-05 -3.08859388e-05 7.94145727e-05] w = [-0.24536644 0.71371187 2.53165457] w\_new= [-0.24536693 0.71371156 2.53165537]

gradient= [-4.84732025e-05 -3.08525652e-05 7.93257677e-05] w = [-0.24536693 0.71371156 2.53165537] w\_new= [-0.24536741 0.71371125 2.53165616]

gradient= [-4.84178348e-05 -3.08192274e-05 7.92370621e-05] w = [-0.24536741 0.71371125 2.53165616] w\_new= [-0.2453679 0.71371094 2.53165695]

gradient= [-4.83625306e-05 -3.07859250e-05 7.91484557e-05] w = [-0.2453679 0.71371094 2.53165695] w\_new= [-0.24536838 0.71371064 2.53165774]

gradient= [-4.83072901e-05 -3.07526582e-05 7.90599483e-05] w = [-0.24536838 0.71371064 2.53165774] w\_new= [-0.24536886 0.71371033 2.53165853]

gradient= [-4.8252113e-05 -3.0719427e-05 7.8971540e-05] w = [-0.24536886 0.71371033 2.53165853] w\_new= [-0.24536934 0.71371002 2.53165932]

gradient= [-4.81969994e-05 -3.06862311e-05 7.88832305e-05] w = [-0.24536934 0.71371002 2.53165932] w\_new= [-0.24536983 0.71370971 2.53166011]

gradient= [-4.81419491e-05 -3.06530707e-05 7.87950198e-05] w = [-0.24536983 0.71370971 2.53166011] w\_new= [-0.24537031 0.71370941 2.5316609 ]

gradient= [-4.80869621e-05 -3.06199457e-05 7.87069078e-05] w = [-0.24537031 0.71370941 2.5316609 ] w\_new= [-0.24537079 0.7137091 2.53166169]

gradient= [-4.80320382e-05 -3.05868561e-05 7.86188943e-05] w = [-0.24537079 0.7137091 2.53166169] w\_new= [-0.24537127 0.7137088 2.53166247]

gradient= [-4.79771775e-05 -3.05538017e-05 7.85309792e-05] w = [-0.24537127 0.7137088 2.53166247] w\_new= [-0.24537175 0.71370849 2.53166326]

gradient= [-4.79223798e-05 -3.05207826e-05 7.84431625e-05] w = [-0.24537175 0.71370849 2.53166326] w\_new= [-0.24537223 0.71370819 2.53166404]

gradient= [-4.78676451e-05 -3.04877988e-05 7.83554439e-05] w = [-0.24537223 0.71370819 2.53166404] w\_new= [-0.24537271 0.71370788 2.53166483]

gradient= [-4.78129733e-05 -3.04548502e-05 7.82678235e-05] w = [-0.24537271 0.71370788 2.53166483] w\_new= [-0.24537319 0.71370758 2.53166561]

gradient= [-4.77583644e-05 -3.04219367e-05 7.81803011e-05] w = [-0.24537319 0.71370758 2.53166561] w\_new= [-0.24537366 0.71370727 2.53166639]

gradient= [-4.77038182e-05 -3.03890584e-05 7.80928766e-05] w = [-0.24537366 0.71370727 2.53166639] w\_new= [-0.24537414 0.71370697 2.53166717]

gradient= [-4.76493346e-05 -3.03562152e-05 7.80055498e-05] w = [-0.24537414 0.71370697 2.53166717] w\_new= [-0.24537462 0.71370666 2.53166795]

gradient= [-4.75949137e-05 -3.03234070e-05 7.79183207e-05] w = [-0.24537462 0.71370666 2.53166795] w\_new= [-0.24537509 0.71370636 2.53166873]

gradient= [-4.75405553e-05 -3.02906338e-05 7.78311892e-05] w = [-0.24537509 0.71370636 2.53166873] w\_new= [-0.24537557 0.71370606 2.53166951]

gradient= [-4.74862594e-05 -3.02578956e-05 7.77441551e-05] w = [-0.24537557 0.71370606 2.53166951] w\_new= [-0.24537604 0.71370576 2.53167029]

gradient= [-4.74320259e-05 -3.02251924e-05 7.76572183e-05] w = [-0.24537604 0.71370576 2.53167029] w\_new= [-0.24537652 0.71370545 2.53167106]

gradient= [-4.73778547e-05 -3.01925241e-05 7.75703788e-05] w = [-0.24537652 0.71370545 2.53167106] w\_new= [-0.24537699 0.71370515 2.53167184]

gradient= [-4.73237458e-05 -3.01598906e-05 7.74836364e-05] w = [-0.24537699 0.71370515 2.53167184] w\_new= [-0.24537746 0.71370485 2.53167261]

gradient= [-4.7269699e-05 -3.0127292e-05 7.7396991e-05] w = [-0.24537746 0.71370485 2.53167261] w\_new= [-0.24537794 0.71370455 2.53167339]

gradient= [-4.72157144e-05 -3.00947282e-05 7.73104426e-05] w = [-0.24537794 0.71370455 2.53167339] w\_new= [-0.24537841 0.71370425 2.53167416]

gradient= [-4.71617917e-05 -3.00621991e-05 7.72239909e-05] w = [-0.24537841 0.71370425 2.53167416] w\_new= [-0.24537888 0.71370395 2.53167493]

gradient= [-4.71079311e-05 -3.00297048e-05 7.71376359e-05] w = [-0.24537888 0.71370395 2.53167493] w\_new= [-0.24537935 0.71370365 2.5316757 ]

gradient= [-4.70541323e-05 -2.99972452e-05 7.70513775e-05] w = [-0.24537935 0.71370365 2.5316757 ] w\_new= [-0.24537982 0.71370335 2.53167648]

gradient= [-4.70003953e-05 -2.99648202e-05 7.69652155e-05] w = [-0.24537982 0.71370335 2.53167648] w\_new= [-0.24538029 0.71370305 2.53167725]

gradient= [-4.69467201e-05 -2.99324298e-05 7.68791499e-05] w = [-0.24538029 0.71370305 2.53167725] w\_new= [-0.24538076 0.71370275 2.53167801]

gradient= [-4.68931066e-05 -2.99000740e-05 7.67931806e-05] w = [-0.24538076 0.71370275 2.53167801] w\_new= [-0.24538123 0.71370245 2.53167878]

gradient= [-4.68395547e-05 -2.98677528e-05 7.67073074e-05] w = [-0.24538123 0.71370245 2.53167878] w\_new= [-0.2453817 0.71370215 2.53167955]

gradient= [-4.67860643e-05 -2.98354660e-05 7.66215303e-05] w = [-0.2453817 0.71370215 2.53167955] w\_new= [-0.24538217 0.71370185 2.53168032]

gradient= [-4.67326353e-05 -2.98032138e-05 7.65358491e-05] w = [-0.24538217 0.71370185 2.53168032] w\_new= [-0.24538263 0.71370155 2.53168108]

gradient= [-4.66792678e-05 -2.97709959e-05 7.64502637e-05] w = [-0.24538263 0.71370155 2.53168108] w\_new= [-0.2453831 0.71370126 2.53168184]

gradient= [-4.66259615e-05 -2.97388125e-05 7.63647741e-05] w = [-0.2453831 0.71370126 2.53168184] w\_new= [-0.24538357 0.71370096 2.53168261]

gradient= [-4.65727166e-05 -2.97066635e-05 7.62793800e-05] w = [-0.24538357 0.71370096 2.53168261] w\_new= [-0.24538403 0.71370066 2.53168337]

gradient= [-4.65195328e-05 -2.96745487e-05 7.61940815e-05] w = [-0.24538403 0.71370066 2.53168337] w\_new= [-0.2453845 0.71370036 2.53168413]

gradient= [-4.64664101e-05 -2.96424683e-05 7.61088783e-05] w = [-0.2453845 0.71370036 2.53168413] w\_new= [-0.24538496 0.71370007 2.53168489]

gradient= [-4.64133484e-05 -2.96104221e-05 7.60237705e-05] w = [-0.24538496 0.71370007 2.53168489] w\_new= [-0.24538543 0.71369977 2.53168565]

gradient= [-4.63603477e-05 -2.95784101e-05 7.59387578e-05] w = [-0.24538543 0.71369977 2.53168565] w\_new= [-0.24538589 0.71369948 2.53168641]

gradient= [-4.63074079e-05 -2.95464323e-05 7.58538402e-05] w = [-0.24538589 0.71369948 2.53168641] w\_new= [-0.24538635 0.71369918 2.53168717]

gradient= [-4.62545289e-05 -2.95144887e-05 7.57690176e-05] w = [-0.24538635 0.71369918 2.53168717] w\_new= [-0.24538682 0.71369889 2.53168793]

gradient= [-4.62017107e-05 -2.94825792e-05 7.56842898e-05] w = [-0.24538682 0.71369889 2.53168793] w\_new= [-0.24538728 0.71369859 2.53168869]

gradient= [-4.61489531e-05 -2.94507037e-05 7.55996568e-05] w = [-0.24538728 0.71369859 2.53168869] w\_new= [-0.24538774 0.7136983 2.53168944]

gradient= [-4.60962562e-05 -2.94188623e-05 7.55151185e-05] w = [-0.24538774 0.7136983 2.53168944] w\_new= [-0.2453882 0.713698 2.5316902]

gradient= [-4.60436198e-05 -2.93870549e-05 7.54306747e-05] w = [-0.2453882 0.713698 2.5316902] w\_new= [-0.24538866 0.71369771 2.53169095]

gradient= [-4.59910439e-05 -2.93552814e-05 7.53463253e-05] w = [-0.24538866 0.71369771 2.53169095] w\_new= [-0.24538912 0.71369741 2.53169171]

gradient= [-4.59385283e-05 -2.93235419e-05 7.52620703e-05] w = [-0.24538912 0.71369741 2.53169171] w\_new= [-0.24538958 0.71369712 2.53169246]

gradient= [-4.58860732e-05 -2.92918363e-05 7.51779095e-05] w = [-0.24538958 0.71369712 2.53169246] w\_new= [-0.24539004 0.71369683 2.53169321]

gradient= [-4.58336782e-05 -2.92601646e-05 7.50938428e-05] w = [-0.24539004 0.71369683 2.53169321] w\_new= [-0.2453905 0.71369654 2.53169396]

gradient= [-4.57813435e-05 -2.92285267e-05 7.50098702e-05] w = [-0.2453905 0.71369654 2.53169396] w\_new= [-0.24539096 0.71369624 2.53169471]

gradient= [-4.57290689e-05 -2.91969225e-05 7.49259914e-05] w = [-0.24539096 0.71369624 2.53169471] w\_new= [-0.24539141 0.71369595 2.53169546]

gradient= [-4.56768543e-05 -2.91653522e-05 7.48422065e-05] w = [-0.24539141 0.71369595 2.53169546] w\_new= [-0.24539187 0.71369566 2.53169621]

gradient= [-4.56246998e-05 -2.91338155e-05 7.47585153e-05] w = [-0.24539187 0.71369566 2.53169621] w\_new= [-0.24539233 0.71369537 2.53169696]

gradient= [-4.55726051e-05 -2.91023126e-05 7.46749177e-05] w = [-0.24539233 0.71369537 2.53169696] w\_new= [-0.24539278 0.71369508 2.5316977 ]

gradient= [-4.55205703e-05 -2.90708432e-05 7.45914135e-05] w = [-0.24539278 0.71369508 2.5316977 ] w\_new= [-0.24539324 0.71369479 2.53169845]

gradient= [-4.54685952e-05 -2.90394075e-05 7.45080028e-05] w = [-0.24539324 0.71369479 2.53169845] w\_new= [-0.24539369 0.7136945 2.53169919]

gradient= [-4.54166799e-05 -2.90080054e-05 7.44246853e-05] w = [-0.24539369 0.7136945 2.53169919] w\_new= [-0.24539415 0.71369421 2.53169994]

gradient= [-4.53648242e-05 -2.89766368e-05 7.43414610e-05] w = [-0.24539415 0.71369421 2.53169994] w\_new= [-0.2453946 0.71369392 2.53170068]

gradient= [-4.53130281e-05 -2.89453018e-05 7.42583298e-05] w = [-0.2453946 0.71369392 2.53170068] w\_new= [-0.24539505 0.71369363 2.53170142]

gradient= [-4.52612915e-05 -2.89140002e-05 7.41752916e-05] w = [-0.24539505 0.71369363 2.53170142] w\_new= [-0.2453955 0.71369334 2.53170217]

gradient= [-4.52096143e-05 -2.88827320e-05 7.40923463e-05] w = [-0.2453955 0.71369334 2.53170217] w\_new= [-0.24539596 0.71369305 2.53170291]

gradient= [-4.51579964e-05 -2.88514972e-05 7.40094937e-05] w = [-0.24539596 0.71369305 2.53170291] w\_new= [-0.24539641 0.71369276 2.53170365]

gradient= [-4.51064379e-05 -2.88202958e-05 7.39267337e-05] w = [-0.24539641 0.71369276 2.53170365] w\_new= [-0.24539686 0.71369247 2.53170439]

gradient= [-4.50549386e-05 -2.87891278e-05 7.38440663e-05] w = [-0.24539686 0.71369247 2.53170439] w\_new= [-0.24539731 0.71369218 2.53170513]

gradient= [-4.50034984e-05 -2.87579930e-05 7.37614914e-05] w = [-0.24539731 0.71369218 2.53170513] w\_new= [-0.24539776 0.7136919 2.53170586]

gradient= [-4.49521173e-05 -2.87268915e-05 7.36790088e-05] w = [-0.24539776 0.7136919 2.53170586] w\_new= [-0.24539821 0.71369161 2.5317066 ]

gradient= [-4.49007953e-05 -2.86958233e-05 7.35966185e-05] w = [-0.24539821 0.71369161 2.5317066 ] w\_new= [-0.24539866 0.71369132 2.53170734]

gradient= [-4.48495321e-05 -2.86647882e-05 7.35143203e-05] w = [-0.24539866 0.71369132 2.53170734] w\_new= [-0.24539911 0.71369104 2.53170807]

gradient= [-4.47983279e-05 -2.86337863e-05 7.34321142e-05] w = [-0.24539911 0.71369104 2.53170807] w\_new= [-0.24539956 0.71369075 2.53170881]

gradient= [-4.47471825e-05 -2.86028175e-05 7.33500000e-05] w = [-0.24539956 0.71369075 2.53170881] w\_new= [-0.2454 0.71369046 2.53170954]

gradient= [-4.46960958e-05 -2.85718818e-05 7.32679776e-05] w = [-0.2454 0.71369046 2.53170954] w\_new= [-0.24540045 0.71369018 2.53171027]

gradient= [-4.46450678e-05 -2.85409791e-05 7.31860470e-05] w = [-0.24540045 0.71369018 2.53171027] w\_new= [-0.2454009 0.71368989 2.531711 ]

gradient= [-4.45940985e-05 -2.85101095e-05 7.31042079e-05] w = [-0.2454009 0.71368989 2.531711 ] w\_new= [-0.24540134 0.71368961 2.53171173]

gradient= [-4.45431876e-05 -2.84792728e-05 7.30224605e-05] w = [-0.24540134 0.71368961 2.53171173] w\_new= [-0.24540179 0.71368932 2.53171246]

gradient= [-4.44923353e-05 -2.84484691e-05 7.29408044e-05] w = [-0.24540179 0.71368932 2.53171246] w\_new= [-0.24540223 0.71368904 2.53171319]

gradient= [-4.44415413e-05 -2.84176983e-05 7.28592396e-05] w = [-0.24540223 0.71368904 2.53171319] w\_new= [-0.24540268 0.71368875 2.53171392]

gradient= [-4.43908057e-05 -2.83869604e-05 7.27777661e-05] w = [-0.24540268 0.71368875 2.53171392] w\_new= [-0.24540312 0.71368847 2.53171465]

gradient= [-4.43401283e-05 -2.83562554e-05 7.26963837e-05] w = [-0.24540312 0.71368847 2.53171465] w\_new= [-0.24540356 0.71368819 2.53171538]

gradient= [-4.42895092e-05 -2.83255831e-05 7.26150923e-05] w = [-0.24540356 0.71368819 2.53171538] w\_new= [-0.24540401 0.7136879 2.5317161 ]

gradient= [-4.42389482e-05 -2.82949437e-05 7.25338918e-05] w = [-0.24540401 0.7136879 2.5317161 ] w\_new= [-0.24540445 0.71368762 2.53171683]

gradient= [-4.41884452e-05 -2.82643369e-05 7.24527822e-05] w = [-0.24540445 0.71368762 2.53171683] w\_new= [-0.24540489 0.71368734 2.53171755]

gradient= [-4.41380003e-05 -2.82337629e-05 7.23717632e-05] w = [-0.24540489 0.71368734 2.53171755] w\_new= [-0.24540533 0.71368706 2.53171828]

gradient= [-4.40876133e-05 -2.82032216e-05 7.22908349e-05] w = [-0.24540533 0.71368706 2.53171828] w\_new= [-0.24540577 0.71368677 2.531719 ]

gradient= [-4.40372842e-05 -2.81727129e-05 7.22099970e-05] w = [-0.24540577 0.71368677 2.531719 ] w\_new= [-0.24540621 0.71368649 2.53171972]

gradient= [-4.39870128e-05 -2.81422368e-05 7.21292496e-05] w = [-0.24540621 0.71368649 2.53171972] w\_new= [-0.24540665 0.71368621 2.53172044]

gradient= [-4.39367992e-05 -2.81117932e-05 7.20485925e-05] w = [-0.24540665 0.71368621 2.53172044] w\_new= [-0.24540709 0.71368593 2.53172116]

gradient= [-4.38866433e-05 -2.80813822e-05 7.19680256e-05] w = [-0.24540709 0.71368593 2.53172116] w\_new= [-0.24540753 0.71368565 2.53172188]

gradient= [-4.38365450e-05 -2.80510038e-05 7.18875487e-05] w = [-0.24540753 0.71368565 2.53172188] w\_new= [-0.24540797 0.71368537 2.5317226 ]

gradient= [-4.37865042e-05 -2.80206577e-05 7.18071619e-05] w = [-0.24540797 0.71368537 2.5317226 ] w\_new= [-0.24540841 0.71368509 2.53172332]

gradient= [-4.37365209e-05 -2.79903441e-05 7.17268650e-05] w = [-0.24540841 0.71368509 2.53172332] w\_new= [-0.24540885 0.71368481 2.53172404]

gradient= [-4.36865949e-05 -2.79600630e-05 7.16466579e-05] w = [-0.24540885 0.71368481 2.53172404] w\_new= [-0.24540928 0.71368453 2.53172475]

gradient= [-4.36367263e-05 -2.79298141e-05 7.15665405e-05] w = [-0.24540928 0.71368453 2.53172475] w\_new= [-0.24540972 0.71368425 2.53172547]

gradient= [-4.35869150e-05 -2.78995976e-05 7.14865127e-05] w = [-0.24540972 0.71368425 2.53172547] w\_new= [-0.24541015 0.71368397 2.53172618]

gradient= [-4.35371609e-05 -2.78694135e-05 7.14065743e-05] w = [-0.24541015 0.71368397 2.53172618] w\_new= [-0.24541059 0.71368369 2.5317269 ]

gradient= [-4.34874639e-05 -2.78392615e-05 7.13267254e-05] w = [-0.24541059 0.71368369 2.5317269 ] w\_new= [-0.24541102 0.71368341 2.53172761]

gradient= [-4.34378240e-05 -2.78091418e-05 7.12469658e-05] w = [-0.24541102 0.71368341 2.53172761] w\_new= [-0.24541146 0.71368313 2.53172832]

gradient= [-4.33882410e-05 -2.77790543e-05 7.11672954e-05] w = [-0.24541146 0.71368313 2.53172832] w\_new= [-0.24541189 0.71368286 2.53172904]

gradient= [-4.33387151e-05 -2.77489990e-05 7.10877141e-05] w = [-0.24541189 0.71368286 2.53172904] w\_new= [-0.24541233 0.71368258 2.53172975]

gradient= [-4.32892460e-05 -2.77189758e-05 7.10082217e-05] w = [-0.24541233 0.71368258 2.53172975] w\_new= [-0.24541276 0.7136823 2.53173046]

gradient= [-4.32398337e-05 -2.76889847e-05 7.09288183e-05] w = [-0.24541276 0.7136823 2.53173046] w\_new= [-0.24541319 0.71368203 2.53173117]

gradient= [-4.31904781e-05 -2.76590256e-05 7.08495037e-05] w = [-0.24541319 0.71368203 2.53173117] w\_new= [-0.24541362 0.71368175 2.53173187]

gradient= [-4.31411792e-05 -2.76290986e-05 7.07702778e-05] w = [-0.24541362 0.71368175 2.53173187] w\_new= [-0.24541406 0.71368147 2.53173258]

gradient= [-4.30919369e-05 -2.75992036e-05 7.06911405e-05] w = [-0.24541406 0.71368147 2.53173258] w\_new= [-0.24541449 0.7136812 2.53173329]

gradient= [-4.30427512e-05 -2.75693405e-05 7.06120917e-05] w = [-0.24541449 0.7136812 2.53173329] w\_new= [-0.24541492 0.71368092 2.531734 ]

gradient= [-4.29936219e-05 -2.75395094e-05 7.05331313e-05] w = [-0.24541492 0.71368092 2.531734 ] w\_new= [-0.24541535 0.71368065 2.5317347 ]

gradient= [-4.29445491e-05 -2.75097101e-05 7.04542592e-05] w = [-0.24541535 0.71368065 2.5317347 ] w\_new= [-0.24541578 0.71368037 2.53173541]

gradient= [-4.28955326e-05 -2.74799427e-05 7.03754753e-05] w = [-0.24541578 0.71368037 2.53173541] w\_new= [-0.2454162 0.7136801 2.53173611]

gradient= [-4.28465724e-05 -2.74502071e-05 7.02967795e-05] w = [-0.2454162 0.7136801 2.53173611] w\_new= [-0.24541663 0.71367982 2.53173681]

gradient= [-4.27976683e-05 -2.74205034e-05 7.02181717e-05] w = [-0.24541663 0.71367982 2.53173681] w\_new= [-0.24541706 0.71367955 2.53173751]

gradient= [-4.27488205e-05 -2.73908314e-05 7.01396519e-05] w = [-0.24541706 0.71367955 2.53173751] w\_new= [-0.24541749 0.71367927 2.53173822]

gradient= [-4.27000287e-05 -2.73611911e-05 7.00612198e-05] w = [-0.24541749 0.71367927 2.53173822] w\_new= [-0.24541792 0.713679 2.53173892]

gradient= [-4.26512930e-05 -2.73315825e-05 6.99828755e-05] w = [-0.24541792 0.713679 2.53173892] w\_new= [-0.24541834 0.71367873 2.53173962]

gradient= [-4.26026132e-05 -2.73020055e-05 6.99046187e-05] w = [-0.24541834 0.71367873 2.53173962] w\_new= [-0.24541877 0.71367845 2.53174032]

gradient= [-4.25539893e-05 -2.72724602e-05 6.98264495e-05] w = [-0.24541877 0.71367845 2.53174032] w\_new= [-0.24541919 0.71367818 2.53174101]

gradient= [-4.25054212e-05 -2.72429465e-05 6.97483678e-05] w = [-0.24541919 0.71367818 2.53174101] w\_new= [-0.24541962 0.71367791 2.53174171]

gradient= [-4.24569089e-05 -2.72134644e-05 6.96703733e-05] w = [-0.24541962 0.71367791 2.53174171] w\_new= [-0.24542004 0.71367764 2.53174241]

gradient= [-4.24084523e-05 -2.71840137e-05 6.95924661e-05] w = [-0.24542004 0.71367764 2.53174241] w\_new= [-0.24542047 0.71367736 2.5317431 ]

gradient= [-4.23600514e-05 -2.71545946e-05 6.95146460e-05] w = [-0.24542047 0.71367736 2.5317431 ] w\_new= [-0.24542089 0.71367709 2.5317438 ]

gradient= [-4.23117060e-05 -2.71252069e-05 6.94369129e-05] w = [-0.24542089 0.71367709 2.5317438 ] w\_new= [-0.24542131 0.71367682 2.53174449]

gradient= [-4.22634161e-05 -2.70958507e-05 6.93592667e-05] w = [-0.24542131 0.71367682 2.53174449] w\_new= [-0.24542174 0.71367655 2.53174519]

gradient= [-4.22151816e-05 -2.70665258e-05 6.92817074e-05] w = [-0.24542174 0.71367655 2.53174519] w\_new= [-0.24542216 0.71367628 2.53174588]

gradient= [-4.21670025e-05 -2.70372323e-05 6.92042348e-05] w = [-0.24542216 0.71367628 2.53174588] w\_new= [-0.24542258 0.71367601 2.53174657]

gradient= [-4.21188788e-05 -2.70079701e-05 6.91268489e-05] w = [-0.24542258 0.71367601 2.53174657] w\_new= [-0.245423 0.71367574 2.53174726]

gradient= [-4.20708103e-05 -2.69787393e-05 6.90495495e-05] w = [-0.245423 0.71367574 2.53174726] w\_new= [-0.24542342 0.71367547 2.53174795]

gradient= [-4.20227969e-05 -2.69495397e-05 6.89723366e-05] w = [-0.24542342 0.71367547 2.53174795] w\_new= [-0.24542384 0.7136752 2.53174864]

gradient= [-4.19748387e-05 -2.69203713e-05 6.88952100e-05] w = [-0.24542384 0.7136752 2.53174864] w\_new= [-0.24542426 0.71367493 2.53174933]

gradient= [-4.19269356e-05 -2.68912341e-05 6.88181696e-05] w = [-0.24542426 0.71367493 2.53174933] w\_new= [-0.24542468 0.71367466 2.53175002]

gradient= [-4.18790874e-05 -2.68621281e-05 6.87412155e-05] w = [-0.24542468 0.71367466 2.53175002] w\_new= [-0.2454251 0.71367439 2.53175071]

gradient= [-4.18312942e-05 -2.68330532e-05 6.86643473e-05] w = [-0.2454251 0.71367439 2.53175071] w\_new= [-0.24542552 0.71367412 2.53175139]

gradient= [-4.17835558e-05 -2.68040094e-05 6.85875652e-05] w = [-0.24542552 0.71367412 2.53175139] w\_new= [-0.24542594 0.71367386 2.53175208]

gradient= [-4.17358723e-05 -2.67749966e-05 6.85108689e-05] w = [-0.24542594 0.71367386 2.53175208] w\_new= [-0.24542635 0.71367359 2.53175277]

gradient= [-4.16882434e-05 -2.67460149e-05 6.84342584e-05] w = [-0.24542635 0.71367359 2.53175277] w\_new= [-0.24542677 0.71367332 2.53175345]

gradient= [-4.16406693e-05 -2.67170643e-05 6.83577335e-05] w = [-0.24542677 0.71367332 2.53175345] w\_new= [-0.24542719 0.71367305 2.53175413]

gradient= [-4.15931498e-05 -2.66881445e-05 6.82812943e-05] w = [-0.24542719 0.71367305 2.53175413] w\_new= [-0.2454276 0.71367279 2.53175482]

gradient= [-4.15456848e-05 -2.66592557e-05 6.82049405e-05] w = [-0.2454276 0.71367279 2.53175482] w\_new= [-0.24542802 0.71367252 2.5317555 ]

gradient= [-4.14982743e-05 -2.66303978e-05 6.81286721e-05] w = [-0.24542802 0.71367252 2.5317555 ] w\_new= [-0.24542843 0.71367225 2.53175618]

gradient= [-4.14509182e-05 -2.66015708e-05 6.80524890e-05] w = [-0.24542843 0.71367225 2.53175618] w\_new= [-0.24542885 0.71367199 2.53175686]

gradient= [-4.14036165e-05 -2.65727746e-05 6.79763911e-05] w = [-0.24542885 0.71367199 2.53175686] w\_new= [-0.24542926 0.71367172 2.53175754]

gradient= [-4.13563691e-05 -2.65440092e-05 6.79003783e-05] w = [-0.24542926 0.71367172 2.53175754] w\_new= [-0.24542968 0.71367146 2.53175822]

gradient= [-4.13091759e-05 -2.65152746e-05 6.78244506e-05] w = [-0.24542968 0.71367146 2.53175822] w\_new= [-0.24543009 0.71367119 2.5317589 ]

gradient= [-4.12620369e-05 -2.64865708e-05 6.77486077e-05] w = [-0.24543009 0.71367119 2.5317589 ] w\_new= [-0.2454305 0.71367093 2.53175957]

gradient= [-4.12149520e-05 -2.64578976e-05 6.76728496e-05] w = [-0.2454305 0.71367093 2.53175957] w\_new= [-0.24543091 0.71367066 2.53176025]

gradient= [-4.11679212e-05 -2.64292551e-05 6.75971763e-05] w = [-0.24543091 0.71367066 2.53176025] w\_new= [-0.24543133 0.7136704 2.53176093]

gradient= [-4.11209443e-05 -2.64006433e-05 6.75215876e-05] w = [-0.24543133 0.7136704 2.53176093] w\_new= [-0.24543174 0.71367013 2.5317616 ]

gradient= [-4.10740214e-05 -2.63720620e-05 6.74460834e-05] w = [-0.24543174 0.71367013 2.5317616 ] w\_new= [-0.24543215 0.71366987 2.53176228]

gradient= [-4.10271523e-05 -2.63435114e-05 6.73706637e-05] w = [-0.24543215 0.71366987 2.53176228] w\_new= [-0.24543256 0.71366961 2.53176295]

gradient= [-4.09803370e-05 -2.63149913e-05 6.72953283e-05] w = [-0.24543256 0.71366961 2.53176295] w\_new= [-0.24543297 0.71366934 2.53176362]

gradient= [-4.09335755e-05 -2.62865017e-05 6.72200772e-05] w = [-0.24543297 0.71366934 2.53176362] w\_new= [-0.24543338 0.71366908 2.5317643 ]

gradient= [-4.08868676e-05 -2.62580426e-05 6.71449102e-05] w = [-0.24543338 0.71366908 2.5317643 ] w\_new= [-0.24543379 0.71366882 2.53176497]

gradient= [-4.08402133e-05 -2.62296139e-05 6.70698272e-05] w = [-0.24543379 0.71366882 2.53176497] w\_new= [-0.24543419 0.71366856 2.53176564]

gradient= [-4.07936126e-05 -2.62012157e-05 6.69948283e-05] w = [-0.24543419 0.71366856 2.53176564] w\_new= [-0.2454346 0.71366829 2.53176631]

gradient= [-4.07470654e-05 -2.61728478e-05 6.69199132e-05] w = [-0.2454346 0.71366829 2.53176631] w\_new= [-0.24543501 0.71366803 2.53176698]

gradient= [-4.07005716e-05 -2.61445103e-05 6.68450819e-05] w = [-0.24543501 0.71366803 2.53176698] w\_new= [-0.24543542 0.71366777 2.53176765]

gradient= [-4.06541311e-05 -2.61162031e-05 6.67703343e-05] w = [-0.24543542 0.71366777 2.53176765] w\_new= [-0.24543582 0.71366751 2.53176831]

gradient= [-4.06077440e-05 -2.60879263e-05 6.66956703e-05] w = [-0.24543582 0.71366751 2.53176831] w\_new= [-0.24543623 0.71366725 2.53176898]

gradient= [-4.05614101e-05 -2.60596796e-05 6.66210897e-05] w = [-0.24543623 0.71366725 2.53176898] w\_new= [-0.24543663 0.71366699 2.53176965]

gradient= [-4.05151294e-05 -2.60314632e-05 6.65465926e-05] w = [-0.24543663 0.71366699 2.53176965] w\_new= [-0.24543704 0.71366673 2.53177031]

gradient= [-4.04689018e-05 -2.60032770e-05 6.64721788e-05] w = [-0.24543704 0.71366673 2.53177031] w\_new= [-0.24543744 0.71366647 2.53177098]

gradient= [-4.04227272e-05 -2.59751210e-05 6.63978482e-05] w = [-0.24543744 0.71366647 2.53177098] w\_new= [-0.24543785 0.71366621 2.53177164]

gradient= [-4.03766057e-05 -2.59469950e-05 6.63236007e-05] w = [-0.24543785 0.71366621 2.53177164] w\_new= [-0.24543825 0.71366595 2.5317723 ]

gradient= [-4.03305371e-05 -2.59188992e-05 6.62494363e-05] w = [-0.24543825 0.71366595 2.5317723 ] w\_new= [-0.24543866 0.71366569 2.53177297]

gradient= [-4.02845213e-05 -2.58908335e-05 6.61753548e-05] w = [-0.24543866 0.71366569 2.53177297] w\_new= [-0.24543906 0.71366543 2.53177363]

gradient= [-4.02385584e-05 -2.58627978e-05 6.61013562e-05] w = [-0.24543906 0.71366543 2.53177363] w\_new= [-0.24543946 0.71366517 2.53177429]

gradient= [-4.01926482e-05 -2.58347921e-05 6.60274403e-05] w = [-0.24543946 0.71366517 2.53177429] w\_new= [-0.24543986 0.71366491 2.53177495]

gradient= [-4.01467907e-05 -2.58068163e-05 6.59536070e-05] w = [-0.24543986 0.71366491 2.53177495] w\_new= [-0.24544026 0.71366466 2.53177561]

gradient= [-4.01009858e-05 -2.57788705e-05 6.58798564e-05] w = [-0.24544026 0.71366466 2.53177561] w\_new= [-0.24544067 0.7136644 2.53177627]

gradient= [-4.00552335e-05 -2.57509546e-05 6.58061882e-05] w = [-0.24544067 0.7136644 2.53177627] w\_new= [-0.24544107 0.71366414 2.53177693]

gradient= [-4.00095337e-05 -2.57230686e-05 6.57326024e-05] w = [-0.24544107 0.71366414 2.53177693] w\_new= [-0.24544147 0.71366388 2.53177758]

gradient= [-3.99638864e-05 -2.56952125e-05 6.56590989e-05] w = [-0.24544147 0.71366388 2.53177758] w\_new= [-0.24544187 0.71366363 2.53177824]

gradient= [-3.99182914e-05 -2.56673861e-05 6.55856776e-05] w = [-0.24544187 0.71366363 2.53177824] w\_new= [-0.24544226 0.71366337 2.5317789 ]

gradient= [-3.98727488e-05 -2.56395896e-05 6.55123384e-05] w = [-0.24544226 0.71366337 2.5317789 ] w\_new= [-0.24544266 0.71366311 2.53177955]

gradient= [-3.98272584e-05 -2.56118228e-05 6.54390812e-05] w = [-0.24544266 0.71366311 2.53177955] w\_new= [-0.24544306 0.71366286 2.5317802 ]

gradient= [-3.97818202e-05 -2.55840857e-05 6.53659059e-05] w = [-0.24544306 0.71366286 2.5317802 ] w\_new= [-0.24544346 0.7136626 2.53178086]

gradient= [-3.97364342e-05 -2.55563783e-05 6.52928125e-05] w = [-0.24544346 0.7136626 2.53178086] w\_new= [-0.24544386 0.71366235 2.53178151]

gradient= [-3.96911002e-05 -2.55287005e-05 6.52198008e-05] w = [-0.24544386 0.71366235 2.53178151] w\_new= [-0.24544425 0.71366209 2.53178216]

gradient= [-3.96458183e-05 -2.55010524e-05 6.51468707e-05] w = [-0.24544425 0.71366209 2.53178216] w\_new= [-0.24544465 0.71366184 2.53178281]

gradient= [-3.96005884e-05 -2.54734339e-05 6.50740223e-05] w = [-0.24544465 0.71366184 2.53178281] w\_new= [-0.24544505 0.71366158 2.53178347]

gradient= [-3.95554103e-05 -2.54458450e-05 6.50012553e-05] w = [-0.24544505 0.71366158 2.53178347] w\_new= [-0.24544544 0.71366133 2.53178412]

gradient= [-3.95102841e-05 -2.54182855e-05 6.49285696e-05] w = [-0.24544544 0.71366133 2.53178412] w\_new= [-0.24544584 0.71366107 2.53178477]

gradient= [-3.94652096e-05 -2.53907556e-05 6.48559653e-05] w = [-0.24544584 0.71366107 2.53178477] w\_new= [-0.24544623 0.71366082 2.53178541]

gradient= [-3.94201869e-05 -2.53632552e-05 6.47834421e-05] w = [-0.24544623 0.71366082 2.53178541] w\_new= [-0.24544663 0.71366056 2.53178606]

gradient= [-3.93752159e-05 -2.53357842e-05 6.47110001e-05] w = [-0.24544663 0.71366056 2.53178606] w\_new= [-0.24544702 0.71366031 2.53178671]

gradient= [-3.93302964e-05 -2.53083426e-05 6.46386390e-05] w = [-0.24544702 0.71366031 2.53178671] w\_new= [-0.24544741 0.71366006 2.53178735]

gradient= [-3.92854285e-05 -2.52809304e-05 6.45663589e-05] w = [-0.24544741 0.71366006 2.53178735] w\_new= [-0.24544781 0.71365981 2.531788 ]

gradient= [-3.92406121e-05 -2.52535475e-05 6.44941596e-05] w = [-0.24544781 0.71365981 2.531788 ] w\_new= [-0.2454482 0.71365955 2.53178865]

gradient= [-3.91958471e-05 -2.52261940e-05 6.44220411e-05] w = [-0.2454482 0.71365955 2.53178865] w\_new= [-0.24544859 0.7136593 2.53178929]

gradient= [-3.91511334e-05 -2.51988697e-05 6.43500032e-05] w = [-0.24544859 0.7136593 2.53178929] w\_new= [-0.24544898 0.71365905 2.53178993]

gradient= [-3.91064711e-05 -2.51715747e-05 6.42780458e-05] w = [-0.24544898 0.71365905 2.53178993] w\_new= [-0.24544937 0.7136588 2.53179058]

gradient= [-3.90618600e-05 -2.51443089e-05 6.42061690e-05] w = [-0.24544937 0.7136588 2.53179058] w\_new= [-0.24544976 0.71365855 2.53179122]

gradient= [-3.90173001e-05 -2.51170724e-05 6.41343725e-05] w = [-0.24544976 0.71365855 2.53179122] w\_new= [-0.24545015 0.71365829 2.53179186]

gradient= [-3.89727913e-05 -2.50898649e-05 6.40626563e-05] w = [-0.24545015 0.71365829 2.53179186] w\_new= [-0.24545054 0.71365804 2.5317925 ]

gradient= [-3.89283336e-05 -2.50626866e-05 6.39910203e-05] w = [-0.24545054 0.71365804 2.5317925 ] w\_new= [-0.24545093 0.71365779 2.53179314]

gradient= [-3.88839269e-05 -2.50355375e-05 6.39194644e-05] w = [-0.24545093 0.71365779 2.53179314] w\_new= [-0.24545132 0.71365754 2.53179378]

gradient= [-3.88395712e-05 -2.50084173e-05 6.38479885e-05] w = [-0.24545132 0.71365754 2.53179378] w\_new= [-0.24545171 0.71365729 2.53179442]

gradient= [-3.87952663e-05 -2.49813263e-05 6.37765926e-05] w = [-0.24545171 0.71365729 2.53179442] w\_new= [-0.2454521 0.71365704 2.53179506]

gradient= [-3.87510123e-05 -2.49542642e-05 6.37052765e-05] w = [-0.2454521 0.71365704 2.53179506] w\_new= [-0.24545249 0.71365679 2.53179569]

gradient= [-3.87068091e-05 -2.49272311e-05 6.36340402e-05] w = [-0.24545249 0.71365679 2.53179569] w\_new= [-0.24545287 0.71365654 2.53179633]

gradient= [-3.86626565e-05 -2.49002270e-05 6.35628835e-05] w = [-0.24545287 0.71365654 2.53179633] w\_new= [-0.24545326 0.71365629 2.53179696]

gradient= [-3.86185547e-05 -2.48732517e-05 6.34918064e-05] w = [-0.24545326 0.71365629 2.53179696] w\_new= [-0.24545365 0.71365605 2.5317976 ]

gradient= [-3.85745034e-05 -2.48463054e-05 6.34208088e-05] w = [-0.24545365 0.71365605 2.5317976 ] w\_new= [-0.24545403 0.7136558 2.53179823]

gradient= [-3.85305027e-05 -2.48193879e-05 6.33498906e-05] w = [-0.24545403 0.7136558 2.53179823] w\_new= [-0.24545442 0.71365555 2.53179887]

gradient= [-3.84865524e-05 -2.47924993e-05 6.32790517e-05] w = [-0.24545442 0.71365555 2.53179887] w\_new= [-0.2454548 0.7136553 2.5317995]

gradient= [-3.84426526e-05 -2.47656394e-05 6.32082920e-05] w = [-0.2454548 0.7136553 2.5317995] w\_new= [-0.24545519 0.71365505 2.53180013]

gradient= [-3.83988031e-05 -2.47388083e-05 6.31376114e-05] w = [-0.24545519 0.71365505 2.53180013] w\_new= [-0.24545557 0.71365481 2.53180076]

gradient= [-3.83550039e-05 -2.47120060e-05 6.30670099e-05] w = [-0.24545557 0.71365481 2.53180076] w\_new= [-0.24545595 0.71365456 2.53180139]

gradient= [-3.83112550e-05 -2.46852323e-05 6.29964873e-05] w = [-0.24545595 0.71365456 2.53180139] w\_new= [-0.24545634 0.71365431 2.53180202]

gradient= [-3.82675563e-05 -2.46584874e-05 6.29260436e-05] w = [-0.24545634 0.71365431 2.53180202] w\_new= [-0.24545672 0.71365407 2.53180265]

gradient= [-3.82239077e-05 -2.46317710e-05 6.28556787e-05] w = [-0.24545672 0.71365407 2.53180265] w\_new= [-0.2454571 0.71365382 2.53180328]

gradient= [-3.81803092e-05 -2.46050833e-05 6.27853925e-05] w = [-0.2454571 0.71365382 2.53180328] w\_new= [-0.24545748 0.71365357 2.53180391]

gradient= [-3.81367607e-05 -2.45784242e-05 6.27151849e-05] w = [-0.24545748 0.71365357 2.53180391] w\_new= [-0.24545786 0.71365333 2.53180454]

gradient= [-3.80932621e-05 -2.45517936e-05 6.26450557e-05] w = [-0.24545786 0.71365333 2.53180454] w\_new= [-0.24545825 0.71365308 2.53180516]

gradient= [-3.80498135e-05 -2.45251916e-05 6.25750050e-05] w = [-0.24545825 0.71365308 2.53180516] w\_new= [-0.24545863 0.71365284 2.53180579]

gradient= [-3.80064147e-05 -2.44986180e-05 6.25050327e-05] w = [-0.24545863 0.71365284 2.53180579] w\_new= [-0.24545901 0.71365259 2.53180641]

gradient= [-3.79630657e-05 -2.44720729e-05 6.24351386e-05] w = [-0.24545901 0.71365259 2.53180641] w\_new= [-0.24545939 0.71365235 2.53180704]

gradient= [-3.79197664e-05 -2.44455563e-05 6.23653226e-05] w = [-0.24545939 0.71365235 2.53180704] w\_new= [-0.24545976 0.7136521 2.53180766]

gradient= [-3.78765168e-05 -2.44190680e-05 6.22955848e-05] w = [-0.24545976 0.7136521 2.53180766] w\_new= [-0.24546014 0.71365186 2.53180828]

gradient= [-3.78333168e-05 -2.43926081e-05 6.22259249e-05] w = [-0.24546014 0.71365186 2.53180828] w\_new= [-0.24546052 0.71365161 2.53180891]

gradient= [-3.77901663e-05 -2.43661766e-05 6.21563429e-05] w = [-0.24546052 0.71365161 2.53180891] w\_new= [-0.2454609 0.71365137 2.53180953]

gradient= [-3.77470654e-05 -2.43397734e-05 6.20868387e-05] w = [-0.2454609 0.71365137 2.53180953] w\_new= [-0.24546128 0.71365113 2.53181015]

gradient= [-3.77040138e-05 -2.43133984e-05 6.20174123e-05] w = [-0.24546128 0.71365113 2.53181015] w\_new= [-0.24546165 0.71365088 2.53181077]

gradient= [-3.76610117e-05 -2.42870518e-05 6.19480635e-05] w = [-0.24546165 0.71365088 2.53181077] w\_new= [-0.24546203 0.71365064 2.53181139]

gradient= [-3.76180589e-05 -2.42607333e-05 6.18787922e-05] w = [-0.24546203 0.71365064 2.53181139] w\_new= [-0.24546241 0.7136504 2.53181201]

gradient= [-3.75751554e-05 -2.42344431e-05 6.18095984e-05] w = [-0.24546241 0.7136504 2.53181201] w\_new= [-0.24546278 0.71365016 2.53181263]

gradient= [-3.75323011e-05 -2.42081810e-05 6.17404820e-05] w = [-0.24546278 0.71365016 2.53181263] w\_new= [-0.24546316 0.71364991 2.53181324]

gradient= [-3.74894959e-05 -2.41819470e-05 6.16714429e-05] w = [-0.24546316 0.71364991 2.53181324] w\_new= [-0.24546353 0.71364967 2.53181386]

gradient= [-3.74467398e-05 -2.41557411e-05 6.16024810e-05] w = [-0.24546353 0.71364967 2.53181386] w\_new= [-0.24546391 0.71364943 2.53181448]

gradient= [-3.74040328e-05 -2.41295634e-05 6.15335962e-05] w = [-0.24546391 0.71364943 2.53181448] w\_new= [-0.24546428 0.71364919 2.53181509]

gradient= [-3.73613748e-05 -2.41034136e-05 6.14647884e-05] w = [-0.24546428 0.71364919 2.53181509] w\_new= [-0.24546466 0.71364895 2.53181571]

gradient= [-3.73187657e-05 -2.40772919e-05 6.13960576e-05] w = [-0.24546466 0.71364895 2.53181571] w\_new= [-0.24546503 0.71364871 2.53181632]

gradient= [-3.72762055e-05 -2.40511982e-05 6.13274037e-05] w = [-0.24546503 0.71364871 2.53181632] w\_new= [-0.2454654 0.71364847 2.53181693]

gradient= [-3.72336940e-05 -2.40251325e-05 6.12588265e-05] w = [-0.2454654 0.71364847 2.53181693] w\_new= [-0.24546577 0.71364823 2.53181755]

gradient= [-3.71912314e-05 -2.39990946e-05 6.11903260e-05] w = [-0.24546577 0.71364823 2.53181755] w\_new= [-0.24546615 0.71364799 2.53181816]

gradient= [-3.71488174e-05 -2.39730847e-05 6.11219021e-05] w = [-0.24546615 0.71364799 2.53181816] w\_new= [-0.24546652 0.71364775 2.53181877]

gradient= [-3.71064521e-05 -2.39471026e-05 6.10535548e-05] w = [-0.24546652 0.71364775 2.53181877] w\_new= [-0.24546689 0.71364751 2.53181938]

gradient= [-3.70641354e-05 -2.39211484e-05 6.09852838e-05] w = [-0.24546689 0.71364751 2.53181938] w\_new= [-0.24546726 0.71364727 2.53181999]

gradient= [-3.70218672e-05 -2.38952220e-05 6.09170892e-05] w = [-0.24546726 0.71364727 2.53181999] w\_new= [-0.24546763 0.71364703 2.5318206 ]

gradient= [-3.69796475e-05 -2.38693233e-05 6.08489709e-05] w = [-0.24546763 0.71364703 2.5318206 ] w\_new= [-0.245468 0.71364679 2.53182121]

gradient= [-3.69374763e-05 -2.38434525e-05 6.07809287e-05] w = [-0.245468 0.71364679 2.53182121] w\_new= [-0.24546837 0.71364655 2.53182182]

gradient= [-3.68953534e-05 -2.38176093e-05 6.07129627e-05] w = [-0.24546837 0.71364655 2.53182182] w\_new= [-0.24546874 0.71364631 2.53182242]

gradient= [-3.68532788e-05 -2.37917939e-05 6.06450726e-05] w = [-0.24546874 0.71364631 2.53182242] w\_new= [-0.24546911 0.71364608 2.53182303]

gradient= [-3.68112524e-05 -2.37660061e-05 6.05772585e-05] w = [-0.24546911 0.71364608 2.53182303] w\_new= [-0.24546947 0.71364584 2.53182363]

gradient= [-3.67692743e-05 -2.37402459e-05 6.05095202e-05] w = [-0.24546947 0.71364584 2.53182363] w\_new= [-0.24546984 0.7136456 2.53182424]

gradient= [-3.67273443e-05 -2.37145133e-05 6.04418576e-05] w = [-0.24546984 0.7136456 2.53182424] w\_new= [-0.24547021 0.71364536 2.53182484]

gradient= [-3.66854624e-05 -2.36888084e-05 6.03742707e-05] w = [-0.24547021 0.71364536 2.53182484] w\_new= [-0.24547058 0.71364513 2.53182545]

gradient= [-3.66436285e-05 -2.36631309e-05 6.03067594e-05] w = [-0.24547058 0.71364513 2.53182545] w\_new= [-0.24547094 0.71364489 2.53182605]

gradient= [-3.66018426e-05 -2.36374810e-05 6.02393236e-05] w = [-0.24547094 0.71364489 2.53182605] w\_new= [-0.24547131 0.71364465 2.53182665]

gradient= [-3.65601046e-05 -2.36118586e-05 6.01719632e-05] w = [-0.24547131 0.71364465 2.53182665] w\_new= [-0.24547167 0.71364442 2.53182725]

gradient= [-3.65184145e-05 -2.35862637e-05 6.01046781e-05] w = [-0.24547167 0.71364442 2.53182725] w\_new= [-0.24547204 0.71364418 2.53182786]

gradient= [-3.64767722e-05 -2.35606961e-05 6.00374683e-05] w = [-0.24547204 0.71364418 2.53182786] w\_new= [-0.2454724 0.71364395 2.53182846]

gradient= [-3.64351776e-05 -2.35351560e-05 5.99703336e-05] w = [-0.2454724 0.71364395 2.53182846] w\_new= [-0.24547277 0.71364371 2.53182906]

gradient= [-3.63936308e-05 -2.35096433e-05 5.99032741e-05] w = [-0.24547277 0.71364371 2.53182906] w\_new= [-0.24547313 0.71364348 2.53182966]

gradient= [-3.63521316e-05 -2.34841579e-05 5.98362894e-05] w = [-0.24547313 0.71364348 2.53182966] w\_new= [-0.2454735 0.71364324 2.53183025]

gradient= [-3.63106800e-05 -2.34586998e-05 5.97693798e-05] w = [-0.2454735 0.71364324 2.53183025] w\_new= [-0.24547386 0.71364301 2.53183085]

gradient= [-3.62692759e-05 -2.34332690e-05 5.97025449e-05] w = [-0.24547386 0.71364301 2.53183085] w\_new= [-0.24547422 0.71364277 2.53183145]

gradient= [-3.62279193e-05 -2.34078655e-05 5.96357847e-05] w = [-0.24547422 0.71364277 2.53183145] w\_new= [-0.24547458 0.71364254 2.53183204]

gradient= [-3.61866101e-05 -2.33824891e-05 5.95690993e-05] w = [-0.24547458 0.71364254 2.53183204] w\_new= [-0.24547495 0.7136423 2.53183264]

gradient= [-3.61453483e-05 -2.33571400e-05 5.95024884e-05] w = [-0.24547495 0.7136423 2.53183264] w\_new= [-0.24547531 0.71364207 2.53183324]

gradient= [-3.61041338e-05 -2.33318181e-05 5.94359520e-05] w = [-0.24547531 0.71364207 2.53183324] w\_new= [-0.24547567 0.71364184 2.53183383]

gradient= [-3.60629666e-05 -2.33065233e-05 5.93694899e-05] w = [-0.24547567 0.71364184 2.53183383] w\_new= [-0.24547603 0.7136416 2.53183442]

gradient= [-3.60218466e-05 -2.32812557e-05 5.93031023e-05] w = [-0.24547603 0.7136416 2.53183442] w\_new= [-0.24547639 0.71364137 2.53183502]

gradient= [-3.59807737e-05 -2.32560151e-05 5.92367888e-05] w = [-0.24547639 0.71364137 2.53183502] w\_new= [-0.24547675 0.71364114 2.53183561]

gradient= [-3.59397480e-05 -2.32308015e-05 5.91705495e-05] w = [-0.24547675 0.71364114 2.53183561] w\_new= [-0.24547711 0.71364091 2.5318362 ]

gradient= [-3.58987693e-05 -2.32056151e-05 5.91043843e-05] w = [-0.24547711 0.71364091 2.5318362 ] w\_new= [-0.24547747 0.71364068 2.53183679]

gradient= [-3.58578375e-05 -2.31804556e-05 5.90382931e-05] w = [-0.24547747 0.71364068 2.53183679] w\_new= [-0.24547783 0.71364044 2.53183738]

gradient= [-3.58169527e-05 -2.31553230e-05 5.89722758e-05] w = [-0.24547783 0.71364044 2.53183738] w\_new= [-0.24547818 0.71364021 2.53183797]

gradient= [-3.57761148e-05 -2.31302175e-05 5.89063323e-05] w = [-0.24547818 0.71364021 2.53183797] w\_new= [-0.24547854 0.71363998 2.53183856]

gradient= [-3.57353237e-05 -2.31051388e-05 5.88404625e-05] w = [-0.24547854 0.71363998 2.53183856] w\_new= [-0.2454789 0.71363975 2.53183915]

gradient= [-3.56945794e-05 -2.30800870e-05 5.87746664e-05] w = [-0.2454789 0.71363975 2.53183915] w\_new= [-0.24547926 0.71363952 2.53183974]

gradient= [-3.56538818e-05 -2.30550621e-05 5.87089439e-05] w = [-0.24547926 0.71363952 2.53183974] w\_new= [-0.24547961 0.71363929 2.53184032]

gradient= [-3.56132309e-05 -2.30300640e-05 5.86432949e-05] w = [-0.24547961 0.71363929 2.53184032] w\_new= [-0.24547997 0.71363906 2.53184091]

gradient= [-3.55726265e-05 -2.30050928e-05 5.85777193e-05] w = [-0.24547997 0.71363906 2.53184091] w\_new= [-0.24548032 0.71363883 2.5318415 ]

gradient= [-3.55320688e-05 -2.29801482e-05 5.85122170e-05] w = [-0.24548032 0.71363883 2.5318415 ] w\_new= [-0.24548068 0.7136386 2.53184208]

gradient= [-3.54915575e-05 -2.29552305e-05 5.84467880e-05] w = [-0.24548068 0.7136386 2.53184208] w\_new= [-0.24548103 0.71363837 2.53184267]

gradient= [-3.54510927e-05 -2.29303394e-05 5.83814321e-05] w = [-0.24548103 0.71363837 2.53184267] w\_new= [-0.24548139 0.71363814 2.53184325]

gradient= [-3.54106743e-05 -2.29054751e-05 5.83161494e-05] w = [-0.24548139 0.71363814 2.53184325] w\_new= [-0.24548174 0.71363791 2.53184383]

gradient= [-3.53703022e-05 -2.28806374e-05 5.82509396e-05] w = [-0.24548174 0.71363791 2.53184383] w\_new= [-0.2454821 0.71363768 2.53184442]

gradient= [-3.53299764e-05 -2.28558263e-05 5.81858028e-05] w = [-0.2454821 0.71363768 2.53184442] w\_new= [-0.24548245 0.71363745 2.531845 ]

gradient= [-3.52896968e-05 -2.28310419e-05 5.81207387e-05] w = [-0.24548245 0.71363745 2.531845 ] w\_new= [-0.2454828 0.71363722 2.53184558]

gradient= [-3.52494635e-05 -2.28062840e-05 5.80557475e-05] w = [-0.2454828 0.71363722 2.53184558] w\_new= [-0.24548315 0.713637 2.53184616]

gradient= [-3.52092762e-05 -2.27815527e-05 5.79908289e-05] w = [-0.24548315 0.713637 2.53184616] w\_new= [-0.24548351 0.71363677 2.53184674]

gradient= [-3.51691351e-05 -2.27568479e-05 5.79259830e-05] w = [-0.24548351 0.71363677 2.53184674] w\_new= [-0.24548386 0.71363654 2.53184732]

gradient= [-3.51290399e-05 -2.27321696e-05 5.78612095e-05] w = [-0.24548386 0.71363654 2.53184732] w\_new= [-0.24548421 0.71363631 2.5318479 ]

gradient= [-3.50889907e-05 -2.27075177e-05 5.77965085e-05] w = [-0.24548421 0.71363631 2.5318479 ] w\_new= [-0.24548456 0.71363609 2.53184847]

gradient= [-3.50489875e-05 -2.26828923e-05 5.77318798e-05] w = [-0.24548456 0.71363609 2.53184847] w\_new= [-0.24548491 0.71363586 2.53184905]

gradient= [-3.50090301e-05 -2.26582933e-05 5.76673234e-05] w = [-0.24548491 0.71363586 2.53184905] w\_new= [-0.24548526 0.71363563 2.53184963]

gradient= [-3.49691185e-05 -2.26337207e-05 5.76028392e-05] w = [-0.24548526 0.71363563 2.53184963] w\_new= [-0.24548561 0.71363541 2.5318502 ]

gradient= [-3.49292526e-05 -2.26091744e-05 5.75384271e-05] w = [-0.24548561 0.71363541 2.5318502 ] w\_new= [-0.24548596 0.71363518 2.53185078]

gradient= [-3.48894325e-05 -2.25846545e-05 5.74740870e-05] w = [-0.24548596 0.71363518 2.53185078] w\_new= [-0.24548631 0.71363495 2.53185135]

gradient= [-3.48496580e-05 -2.25601609e-05 5.74098189e-05] w = [-0.24548631 0.71363495 2.53185135] w\_new= [-0.24548666 0.71363473 2.53185193]

gradient= [-3.48099291e-05 -2.25356935e-05 5.73456226e-05] w = [-0.24548666 0.71363473 2.53185193] w\_new= [-0.24548701 0.7136345 2.5318525 ]

gradient= [-3.47702458e-05 -2.25112524e-05 5.72814982e-05] w = [-0.24548701 0.7136345 2.5318525 ] w\_new= [-0.24548735 0.71363428 2.53185307]

gradient= [-3.47306080e-05 -2.24868374e-05 5.72174454e-05] w = [-0.24548735 0.71363428 2.53185307] w\_new= [-0.2454877 0.71363405 2.53185365]

gradient= [-3.46910156e-05 -2.24624487e-05 5.71534643e-05] w = [-0.2454877 0.71363405 2.53185365] w\_new= [-0.24548805 0.71363383 2.53185422]

gradient= [-3.46514686e-05 -2.24380861e-05 5.70895547e-05] w = [-0.24548805 0.71363383 2.53185422] w\_new= [-0.24548839 0.7136336 2.53185479]

gradient= [-3.46119669e-05 -2.24137497e-05 5.70257166e-05] w = [-0.24548839 0.7136336 2.53185479] w\_new= [-0.24548874 0.71363338 2.53185536]

gradient= [-3.45725105e-05 -2.23894394e-05 5.69619499e-05] w = [-0.24548874 0.71363338 2.53185536] w\_new= [-0.24548909 0.71363316 2.53185593]

gradient= [-3.45330993e-05 -2.23651551e-05 5.68982544e-05] w = [-0.24548909 0.71363316 2.53185593] w\_new= [-0.24548943 0.71363293 2.5318565 ]

gradient= [-3.44937333e-05 -2.23408969e-05 5.68346302e-05] w = [-0.24548943 0.71363293 2.5318565 ] w\_new= [-0.24548978 0.71363271 2.53185707]

gradient= [-3.44544125e-05 -2.23166647e-05 5.67710772e-05] w = [-0.24548978 0.71363271 2.53185707] w\_new= [-0.24549012 0.71363249 2.53185763]

gradient= [-3.44151367e-05 -2.22924585e-05 5.67075952e-05] w = [-0.24549012 0.71363249 2.53185763] w\_new= [-0.24549047 0.71363226 2.5318582 ]

gradient= [-3.43759059e-05 -2.22682783e-05 5.66441842e-05] w = [-0.24549047 0.71363226 2.5318582 ] w\_new= [-0.24549081 0.71363204 2.53185877]

gradient= [-3.43367201e-05 -2.22441240e-05 5.65808442e-05] w = [-0.24549081 0.71363204 2.53185877] w\_new= [-0.24549115 0.71363182 2.53185933]

gradient= [-3.42975793e-05 -2.22199956e-05 5.65175749e-05] w = [-0.24549115 0.71363182 2.53185933] w\_new= [-0.2454915 0.7136316 2.5318599]

gradient= [-3.42584833e-05 -2.21958932e-05 5.64543764e-05] w = [-0.2454915 0.7136316 2.5318599] w\_new= [-0.24549184 0.71363137 2.53186046]

gradient= [-3.42194321e-05 -2.21718165e-05 5.63912486e-05] w = [-0.24549184 0.71363137 2.53186046] w\_new= [-0.24549218 0.71363115 2.53186103]

gradient= [-3.41804256e-05 -2.21477657e-05 5.63281914e-05] w = [-0.24549218 0.71363115 2.53186103] w\_new= [-0.24549252 0.71363093 2.53186159]

gradient= [-3.41414639e-05 -2.21237407e-05 5.62652046e-05] w = [-0.24549252 0.71363093 2.53186159] w\_new= [-0.24549286 0.71363071 2.53186215]

gradient= [-3.41025469e-05 -2.20997415e-05 5.62022884e-05] w = [-0.24549286 0.71363071 2.53186215] w\_new= [-0.2454932 0.71363049 2.53186272]

gradient= [-3.40636744e-05 -2.20757680e-05 5.61394424e-05] w = [-0.2454932 0.71363049 2.53186272] w\_new= [-0.24549355 0.71363027 2.53186328]

gradient= [-3.40248465e-05 -2.20518203e-05 5.60766668e-05] w = [-0.24549355 0.71363027 2.53186328] w\_new= [-0.24549389 0.71363005 2.53186384]

gradient= [-3.39860631e-05 -2.20278982e-05 5.60139613e-05] w = [-0.24549389 0.71363005 2.53186384] w\_new= [-0.24549423 0.71362983 2.5318644 ]

gradient= [-3.39473242e-05 -2.20040018e-05 5.59513260e-05] w = [-0.24549423 0.71362983 2.5318644 ] w\_new= [-0.24549456 0.71362961 2.53186496]

gradient= [-3.39086297e-05 -2.19801310e-05 5.58887607e-05] w = [-0.24549456 0.71362961 2.53186496] w\_new= [-0.2454949 0.71362939 2.53186552]

gradient= [-3.38699795e-05 -2.19562859e-05 5.58262654e-05] w = [-0.2454949 0.71362939 2.53186552] w\_new= [-0.24549524 0.71362917 2.53186607]

gradient= [-3.38313736e-05 -2.19324663e-05 5.57638400e-05] w = [-0.24549524 0.71362917 2.53186607] w\_new= [-0.24549558 0.71362895 2.53186663]

gradient= [-3.37928120e-05 -2.19086723e-05 5.57014843e-05] w = [-0.24549558 0.71362895 2.53186663] w\_new= [-0.24549592 0.71362873 2.53186719]

gradient= [-3.37542946e-05 -2.18849039e-05 5.56391984e-05] w = [-0.24549592 0.71362873 2.53186719] w\_new= [-0.24549626 0.71362851 2.53186775]

gradient= [-3.37158213e-05 -2.18611609e-05 5.55769822e-05] w = [-0.24549626 0.71362851 2.53186775] w\_new= [-0.24549659 0.71362829 2.5318683 ]

gradient= [-3.36773921e-05 -2.18374434e-05 5.55148355e-05] w = [-0.24549659 0.71362829 2.5318683 ] w\_new= [-0.24549693 0.71362807 2.53186886]

gradient= [-3.36390069e-05 -2.18137514e-05 5.54527583e-05] w = [-0.24549693 0.71362807 2.53186886] w\_new= [-0.24549727 0.71362786 2.53186941]

gradient= [-3.36006658e-05 -2.17900847e-05 5.53907505e-05] w = [-0.24549727 0.71362786 2.53186941] w\_new= [-0.2454976 0.71362764 2.53186996]

gradient= [-3.35623686e-05 -2.17664435e-05 5.53288121e-05] w = [-0.2454976 0.71362764 2.53186996] w\_new= [-0.24549794 0.71362742 2.53187052]

gradient= [-3.35241153e-05 -2.17428277e-05 5.52669430e-05] w = [-0.24549794 0.71362742 2.53187052] w\_new= [-0.24549827 0.7136272 2.53187107]

gradient= [-3.34859058e-05 -2.17192372e-05 5.52051430e-05] w = [-0.24549827 0.7136272 2.53187107] w\_new= [-0.24549861 0.71362699 2.53187162]

gradient= [-3.34477401e-05 -2.16956720e-05 5.51434121e-05] w = [-0.24549861 0.71362699 2.53187162] w\_new= [-0.24549894 0.71362677 2.53187217]

gradient= [-3.34096182e-05 -2.16721321e-05 5.50817503e-05] w = [-0.24549894 0.71362677 2.53187217] w\_new= [-0.24549928 0.71362655 2.53187273]

gradient= [-3.33715400e-05 -2.16486174e-05 5.50201574e-05] w = [-0.24549928 0.71362655 2.53187273] w\_new= [-0.24549961 0.71362634 2.53187328]

gradient= [-3.33335053e-05 -2.16251280e-05 5.49586334e-05] w = [-0.24549961 0.71362634 2.53187328] w\_new= [-0.24549994 0.71362612 2.53187382]

gradient= [-3.32955143e-05 -2.16016638e-05 5.48971782e-05] w = [-0.24549994 0.71362612 2.53187382] w\_new= [-0.24550028 0.7136259 2.53187437]

gradient= [-3.32575669e-05 -2.15782248e-05 5.48357917e-05] w = [-0.24550028 0.7136259 2.53187437] w\_new= [-0.24550061 0.71362569 2.53187492]

gradient= [-3.32196629e-05 -2.15548110e-05 5.47744738e-05] w = [-0.24550061 0.71362569 2.53187492] w\_new= [-0.24550094 0.71362547 2.53187547]

gradient= [-3.31818023e-05 -2.15314222e-05 5.47132246e-05] w = [-0.24550094 0.71362547 2.53187547] w\_new= [-0.24550127 0.71362526 2.53187602]

gradient= [-3.31439852e-05 -2.15080586e-05 5.46520438e-05] w = [-0.24550127 0.71362526 2.53187602] w\_new= [-0.2455016 0.71362504 2.53187656]

gradient= [-3.31062113e-05 -2.14847201e-05 5.45909314e-05] w = [-0.2455016 0.71362504 2.53187656] w\_new= [-0.24550194 0.71362483 2.53187711]

gradient= [-3.30684808e-05 -2.14614066e-05 5.45298874e-05] w = [-0.24550194 0.71362483 2.53187711] w\_new= [-0.24550227 0.71362461 2.53187765]

gradient= [-3.30307935e-05 -2.14381181e-05 5.44689116e-05] w = [-0.24550227 0.71362461 2.53187765] w\_new= [-0.2455026 0.7136244 2.5318782]

gradient= [-3.29931494e-05 -2.14148546e-05 5.44080040e-05] w = [-0.2455026 0.7136244 2.5318782] w\_new= [-0.24550293 0.71362418 2.53187874]

gradient= [-3.29555484e-05 -2.13916161e-05 5.43471645e-05] w = [-0.24550293 0.71362418 2.53187874] w\_new= [-0.24550326 0.71362397 2.53187929]

gradient= [-3.29179905e-05 -2.13684025e-05 5.42863931e-05] w = [-0.24550326 0.71362397 2.53187929] w\_new= [-0.24550359 0.71362376 2.53187983]

gradient= [-3.28804757e-05 -2.13452139e-05 5.42256896e-05] w = [-0.24550359 0.71362376 2.53187983] w\_new= [-0.24550391 0.71362354 2.53188037]

gradient= [-3.28430039e-05 -2.13220501e-05 5.41650540e-05] w = [-0.24550391 0.71362354 2.53188037] w\_new= [-0.24550424 0.71362333 2.53188091]

gradient= [-3.28055749e-05 -2.12989113e-05 5.41044862e-05] w = [-0.24550424 0.71362333 2.53188091] w\_new= [-0.24550457 0.71362312 2.53188145]

gradient= [-3.27681889e-05 -2.12757972e-05 5.40439861e-05] w = [-0.24550457 0.71362312 2.53188145] w\_new= [-0.2455049 0.7136229 2.531882 ]

gradient= [-3.27308458e-05 -2.12527080e-05 5.39835537e-05] w = [-0.2455049 0.7136229 2.531882 ] w\_new= [-0.24550523 0.71362269 2.53188254]

gradient= [-3.26935454e-05 -2.12296435e-05 5.39231889e-05] w = [-0.24550523 0.71362269 2.53188254] w\_new= [-0.24550555 0.71362248 2.53188307]

gradient= [-3.26562877e-05 -2.12066038e-05 5.38628916e-05] w = [-0.24550555 0.71362248 2.53188307] w\_new= [-0.24550588 0.71362227 2.53188361]

gradient= [-3.26190728e-05 -2.11835889e-05 5.38026616e-05] w = [-0.24550588 0.71362227 2.53188361] w\_new= [-0.24550621 0.71362205 2.53188415]

gradient= [-3.25819005e-05 -2.11605986e-05 5.37424991e-05] w = [-0.24550621 0.71362205 2.53188415] w\_new= [-0.24550653 0.71362184 2.53188469]

gradient= [-3.25447708e-05 -2.11376331e-05 5.36824038e-05] w = [-0.24550653 0.71362184 2.53188469] w\_new= [-0.24550686 0.71362163 2.53188523]

gradient= [-3.25076836e-05 -2.11146921e-05 5.36223757e-05] w = [-0.24550686 0.71362163 2.53188523] w\_new= [-0.24550718 0.71362142 2.53188576]

gradient= [-3.24706389e-05 -2.10917759e-05 5.35624148e-05] w = [-0.24550718 0.71362142 2.53188576] w\_new= [-0.24550751 0.71362121 2.5318863 ]

gradient= [-3.24336367e-05 -2.10688842e-05 5.35025209e-05] w = [-0.24550751 0.71362121 2.5318863 ] w\_new= [-0.24550783 0.713621 2.53188683]

gradient= [-3.23966769e-05 -2.10460171e-05 5.34426939e-05] w = [-0.24550783 0.713621 2.53188683] w\_new= [-0.24550815 0.71362079 2.53188737]

gradient= [-3.23597594e-05 -2.10231745e-05 5.33829339e-05] w = [-0.24550815 0.71362079 2.53188737] w\_new= [-0.24550848 0.71362058 2.5318879 ]

gradient= [-3.23228842e-05 -2.10003565e-05 5.33232407e-05] w = [-0.24550848 0.71362058 2.5318879 ] w\_new= [-0.2455088 0.71362037 2.53188843]

gradient= [-3.22860513e-05 -2.09775630e-05 5.32636143e-05] w = [-0.2455088 0.71362037 2.53188843] w\_new= [-0.24550912 0.71362016 2.53188897]

gradient= [-3.22492606e-05 -2.09547939e-05 5.32040545e-05] w = [-0.24550912 0.71362016 2.53188897] w\_new= [-0.24550945 0.71361995 2.5318895 ]

gradient= [-3.22125120e-05 -2.09320493e-05 5.31445613e-05] w = [-0.24550945 0.71361995 2.5318895 ] w\_new= [-0.24550977 0.71361974 2.53189003]

gradient= [-3.21758055e-05 -2.09093291e-05 5.30851347e-05] w = [-0.24550977 0.71361974 2.53189003] w\_new= [-0.24551009 0.71361953 2.53189056]

gradient= [-3.21391411e-05 -2.08866333e-05 5.30257745e-05] w = [-0.24551009 0.71361953 2.53189056] w\_new= [-0.24551041 0.71361932 2.53189109]

gradient= [-3.21025187e-05 -2.08639619e-05 5.29664806e-05] w = [-0.24551041 0.71361932 2.53189109] w\_new= [-0.24551073 0.71361911 2.53189162]

gradient= [-3.20659383e-05 -2.08413148e-05 5.29072531e-05] w = [-0.24551073 0.71361911 2.53189162] w\_new= [-0.24551105 0.7136189 2.53189215]

gradient= [-3.20293998e-05 -2.08186921e-05 5.28480919e-05] w = [-0.24551105 0.7136189 2.53189215] w\_new= [-0.24551137 0.7136187 2.53189268]

gradient= [-3.19929031e-05 -2.07960936e-05 5.27889967e-05] w = [-0.24551137 0.7136187 2.53189268] w\_new= [-0.24551169 0.71361849 2.53189321]

gradient= [-3.19564483e-05 -2.07735194e-05 5.27299677e-05] w = [-0.24551169 0.71361849 2.53189321] w\_new= [-0.24551201 0.71361828 2.53189373]

gradient= [-3.19200352e-05 -2.07509695e-05 5.26710047e-05] w = [-0.24551201 0.71361828 2.53189373] w\_new= [-0.24551233 0.71361807 2.53189426]

gradient= [-3.18836638e-05 -2.07284437e-05 5.26121076e-05] w = [-0.24551233 0.71361807 2.53189426] w\_new= [-0.24551265 0.71361787 2.53189479]

gradient= [-3.18473341e-05 -2.07059422e-05 5.25532763e-05] w = [-0.24551265 0.71361787 2.53189479] w\_new= [-0.24551297 0.71361766 2.53189531]

gradient= [-3.18110460e-05 -2.06834648e-05 5.24945109e-05] w = [-0.24551297 0.71361766 2.53189531] w\_new= [-0.24551329 0.71361745 2.53189584]

gradient= [-3.17747995e-05 -2.06610116e-05 5.24358111e-05] w = [-0.24551329 0.71361745 2.53189584] w\_new= [-0.24551361 0.71361725 2.53189636]

gradient= [-3.17385946e-05 -2.06385824e-05 5.23771770e-05] w = [-0.24551361 0.71361725 2.53189636] w\_new= [-0.24551392 0.71361704 2.53189688]

gradient= [-3.17024311e-05 -2.06161774e-05 5.23186085e-05] w = [-0.24551392 0.71361704 2.53189688] w\_new= [-0.24551424 0.71361683 2.53189741]

gradient= [-3.16663090e-05 -2.05937964e-05 5.22601054e-05] w = [-0.24551424 0.71361683 2.53189741] w\_new= [-0.24551456 0.71361663 2.53189793]

gradient= [-3.16302283e-05 -2.05714395e-05 5.22016678e-05] w = [-0.24551456 0.71361663 2.53189793] w\_new= [-0.24551487 0.71361642 2.53189845]

gradient= [-3.15941890e-05 -2.05491066e-05 5.21432956e-05] w = [-0.24551487 0.71361642 2.53189845] w\_new= [-0.24551519 0.71361622 2.53189897]

gradient= [-3.15581909e-05 -2.05267976e-05 5.20849886e-05] w = [-0.24551519 0.71361622 2.53189897] w\_new= [-0.24551551 0.71361601 2.53189949]

gradient= [-3.15222341e-05 -2.05045126e-05 5.20267468e-05] w = [-0.24551551 0.71361601 2.53189949] w\_new= [-0.24551582 0.71361581 2.53190002]

gradient= [-3.14863185e-05 -2.04822516e-05 5.19685701e-05] w = [-0.24551582 0.71361581 2.53190002] w\_new= [-0.24551614 0.7136156 2.53190053]

gradient= [-3.14504440e-05 -2.04600145e-05 5.19104585e-05] w = [-0.24551614 0.7136156 2.53190053] w\_new= [-0.24551645 0.7136154 2.53190105]

gradient= [-3.14146106e-05 -2.04378012e-05 5.18524118e-05] w = [-0.24551645 0.7136154 2.53190105] w\_new= [-0.24551676 0.71361519 2.53190157]

gradient= [-3.13788183e-05 -2.04156118e-05 5.17944301e-05] w = [-0.24551676 0.71361519 2.53190157] w\_new= [-0.24551708 0.71361499 2.53190209]

gradient= [-3.13430670e-05 -2.03934463e-05 5.17365132e-05] w = [-0.24551708 0.71361499 2.53190209] w\_new= [-0.24551739 0.71361478 2.53190261]

gradient= [-3.13073566e-05 -2.03713045e-05 5.16786611e-05] w = [-0.24551739 0.71361478 2.53190261] w\_new= [-0.2455177 0.71361458 2.53190312]

gradient= [-3.12716871e-05 -2.03491865e-05 5.16208736e-05] w = [-0.2455177 0.71361458 2.53190312] w\_new= [-0.24551802 0.71361438 2.53190364]

gradient= [-3.12360585e-05 -2.03270923e-05 5.15631508e-05] w = [-0.24551802 0.71361438 2.53190364] w\_new= [-0.24551833 0.71361417 2.53190416]

gradient= [-3.12004707e-05 -2.03050219e-05 5.15054926e-05] w = [-0.24551833 0.71361417 2.53190416] w\_new= [-0.24551864 0.71361397 2.53190467]

gradient= [-3.11649237e-05 -2.02829751e-05 5.14478988e-05] w = [-0.24551864 0.71361397 2.53190467] w\_new= [-0.24551895 0.71361377 2.53190519]

gradient= [-3.11294174e-05 -2.02609520e-05 5.13903694e-05] w = [-0.24551895 0.71361377 2.53190519] w\_new= [-0.24551926 0.71361356 2.5319057 ]

gradient= [-3.10939517e-05 -2.02389526e-05 5.13329043e-05] w = [-0.24551926 0.71361356 2.5319057 ] w\_new= [-0.24551958 0.71361336 2.53190621]

gradient= [-3.10585267e-05 -2.02169768e-05 5.12755035e-05] w = [-0.24551958 0.71361336 2.53190621] w\_new= [-0.24551989 0.71361316 2.53190673]

gradient= [-3.10231423e-05 -2.01950246e-05 5.12181669e-05] w = [-0.24551989 0.71361316 2.53190673] w\_new= [-0.2455202 0.71361296 2.53190724]

gradient= [-3.09877984e-05 -2.01730960e-05 5.11608944e-05] w = [-0.2455202 0.71361296 2.53190724] w\_new= [-0.24552051 0.71361276 2.53190775]

gradient= [-3.09524949e-05 -2.01511910e-05 5.11036860e-05] w = [-0.24552051 0.71361276 2.53190775] w\_new= [-0.24552082 0.71361255 2.53190826]

gradient= [-3.09172320e-05 -2.01293095e-05 5.10465415e-05] w = [-0.24552082 0.71361255 2.53190826] w\_new= [-0.24552112 0.71361235 2.53190877]

gradient= [-3.08820094e-05 -2.01074515e-05 5.09894609e-05] w = [-0.24552112 0.71361235 2.53190877] w\_new= [-0.24552143 0.71361215 2.53190928]

gradient= [-3.08468271e-05 -2.00856170e-05 5.09324441e-05] w = [-0.24552143 0.71361215 2.53190928] w\_new= [-0.24552174 0.71361195 2.53190979]

gradient= [-3.08116852e-05 -2.00638060e-05 5.08754911e-05] w = [-0.24552174 0.71361195 2.53190979] w\_new= [-0.24552205 0.71361175 2.5319103 ]

gradient= [-3.07765835e-05 -2.00420183e-05 5.08186018e-05] w = [-0.24552205 0.71361175 2.5319103 ] w\_new= [-0.24552236 0.71361155 2.53191081]

gradient= [-3.07415220e-05 -2.00202541e-05 5.07617761e-05] w = [-0.24552236 0.71361155 2.53191081] w\_new= [-0.24552267 0.71361135 2.53191131]

gradient= [-3.07065007e-05 -1.99985133e-05 5.07050140e-05] w = [-0.24552267 0.71361135 2.53191131] w\_new= [-0.24552297 0.71361115 2.53191182]

gradient= [-3.06715194e-05 -1.99767958e-05 5.06483153e-05] w = [-0.24552297 0.71361115 2.53191182] w\_new= [-0.24552328 0.71361095 2.53191233]

gradient= [-3.06365783e-05 -1.99551017e-05 5.05916800e-05] w = [-0.24552328 0.71361095 2.53191233] w\_new= [-0.24552359 0.71361075 2.53191283]

gradient= [-3.06016772e-05 -1.99334309e-05 5.05351081e-05] w = [-0.24552359 0.71361075 2.53191283] w\_new= [-0.24552389 0.71361055 2.53191334]

gradient= [-3.05668160e-05 -1.99117834e-05 5.04785994e-05] w = [-0.24552389 0.71361055 2.53191334] w\_new= [-0.2455242 0.71361035 2.53191384]

gradient= [-3.05319948e-05 -1.98901591e-05 5.04221539e-05] w = [-0.2455242 0.71361035 2.53191384] w\_new= [-0.2455245 0.71361015 2.53191435]

gradient= [-3.04972134e-05 -1.98685581e-05 5.03657715e-05] w = [-0.2455245 0.71361015 2.53191435] w\_new= [-0.24552481 0.71360995 2.53191485]

gradient= [-3.04624719e-05 -1.98469802e-05 5.03094522e-05] w = [-0.24552481 0.71360995 2.53191485] w\_new= [-0.24552511 0.71360976 2.53191536]

gradient= [-3.04277702e-05 -1.98254256e-05 5.02531958e-05] w = [-0.24552511 0.71360976 2.53191536] w\_new= [-0.24552542 0.71360956 2.53191586]

gradient= [-3.03931082e-05 -1.98038941e-05 5.01970024e-05] w = [-0.24552542 0.71360956 2.53191586] w\_new= [-0.24552572 0.71360936 2.53191636]

gradient= [-3.03584860e-05 -1.97823858e-05 5.01408717e-05] w = [-0.24552572 0.71360936 2.53191636] w\_new= [-0.24552602 0.71360916 2.53191686]

gradient= [-3.03239033e-05 -1.97609006e-05 5.00848039e-05] w = [-0.24552602 0.71360916 2.53191686] w\_new= [-0.24552633 0.71360896 2.53191736]

gradient= [-3.02893603e-05 -1.97394384e-05 5.00287987e-05] w = [-0.24552633 0.71360896 2.53191736] w\_new= [-0.24552663 0.71360877 2.53191786]

gradient= [-3.02548569e-05 -1.97179994e-05 4.99728562e-05] w = [-0.24552663 0.71360877 2.53191786] w\_new= [-0.24552693 0.71360857 2.53191836]

gradient= [-3.02203929e-05 -1.96965833e-05 4.99169762e-05] w = [-0.24552693 0.71360857 2.53191836] w\_new= [-0.24552723 0.71360837 2.53191886]

gradient= [-3.01859684e-05 -1.96751903e-05 4.98611588e-05] w = [-0.24552723 0.71360837 2.53191886] w\_new= [-0.24552754 0.71360818 2.53191936]

gradient= [-3.01515834e-05 -1.96538203e-05 4.98054037e-05] w = [-0.24552754 0.71360818 2.53191936] w\_new= [-0.24552784 0.71360798 2.53191986]

gradient= [-3.01172377e-05 -1.96324732e-05 4.97497110e-05] w = [-0.24552784 0.71360798 2.53191986] w\_new= [-0.24552814 0.71360778 2.53192036]

gradient= [-3.00829314e-05 -1.96111491e-05 4.96940805e-05] w = [-0.24552814 0.71360778 2.53192036] w\_new= [-0.24552844 0.71360759 2.53192085]

gradient= [-3.00486644e-05 -1.95898479e-05 4.96385123e-05] w = [-0.24552844 0.71360759 2.53192085] w\_new= [-0.24552874 0.71360739 2.53192135]

gradient= [-3.00144365e-05 -1.95685696e-05 4.95830062e-05] w = [-0.24552874 0.71360739 2.53192135] w\_new= [-0.24552904 0.7136072 2.53192184]

gradient= [-2.99802479e-05 -1.95473142e-05 4.95275622e-05] w = [-0.24552904 0.7136072 2.53192184] w\_new= [-0.24552934 0.713607 2.53192234]

gradient= [-2.99460985e-05 -1.95260816e-05 4.94721801e-05] w = [-0.24552934 0.713607 2.53192234] w\_new= [-0.24552964 0.71360681 2.53192283]

gradient= [-2.99119881e-05 -1.95048719e-05 4.94168600e-05] w = [-0.24552964 0.71360681 2.53192283] w\_new= [-0.24552994 0.71360661 2.53192333]

gradient= [-2.98779169e-05 -1.94836849e-05 4.93616018e-05] w = [-0.24552994 0.71360661 2.53192333] w\_new= [-0.24553024 0.71360642 2.53192382]

gradient= [-2.98438846e-05 -1.94625207e-05 4.93064053e-05] w = [-0.24553024 0.71360642 2.53192382] w\_new= [-0.24553054 0.71360622 2.53192432]

gradient= [-2.98098913e-05 -1.94413793e-05 4.92512706e-05] w = [-0.24553054 0.71360622 2.53192432] w\_new= [-0.24553083 0.71360603 2.53192481]

gradient= [-2.97759369e-05 -1.94202606e-05 4.91961975e-05] w = [-0.24553083 0.71360603 2.53192481] w\_new= [-0.24553113 0.71360583 2.5319253 ]

gradient= [-2.97420214e-05 -1.93991645e-05 4.91411860e-05] w = [-0.24553113 0.71360583 2.5319253 ] w\_new= [-0.24553143 0.71360564 2.53192579]

gradient= [-2.97081448e-05 -1.93780912e-05 4.90862360e-05] w = [-0.24553143 0.71360564 2.53192579] w\_new= [-0.24553173 0.71360544 2.53192628]

gradient= [-2.96743069e-05 -1.93570405e-05 4.90313475e-05] w = [-0.24553173 0.71360544 2.53192628] w\_new= [-0.24553202 0.71360525 2.53192677]

gradient= [-2.96405078e-05 -1.93360125e-05 4.89765203e-05] w = [-0.24553202 0.71360525 2.53192677] w\_new= [-0.24553232 0.71360506 2.53192726]

gradient= [-2.96067474e-05 -1.93150070e-05 4.89217545e-05] w = [-0.24553232 0.71360506 2.53192726] w\_new= [-0.24553262 0.71360486 2.53192775]

gradient= [-2.95730257e-05 -1.92940241e-05 4.88670498e-05] w = [-0.24553262 0.71360486 2.53192775] w\_new= [-0.24553291 0.71360467 2.53192824]

gradient= [-2.95393426e-05 -1.92730638e-05 4.88124064e-05] w = [-0.24553291 0.71360467 2.53192824] w\_new= [-0.24553321 0.71360448 2.53192873]

gradient= [-2.95056980e-05 -1.92521261e-05 4.87578241e-05] w = [-0.24553321 0.71360448 2.53192873] w\_new= [-0.2455335 0.71360429 2.53192922]

gradient= [-2.94720920e-05 -1.92312108e-05 4.87033028e-05] w = [-0.2455335 0.71360429 2.53192922] w\_new= [-0.2455338 0.71360409 2.5319297 ]

gradient= [-2.94385244e-05 -1.92103180e-05 4.86488424e-05] w = [-0.2455338 0.71360409 2.5319297 ] w\_new= [-0.24553409 0.7136039 2.53193019]

gradient= [-2.94049953e-05 -1.91894477e-05 4.85944430e-05] w = [-0.24553409 0.7136039 2.53193019] w\_new= [-0.24553438 0.71360371 2.53193068]

gradient= [-2.93715046e-05 -1.91685998e-05 4.85401044e-05] w = [-0.24553438 0.71360371 2.53193068] w\_new= [-0.24553468 0.71360352 2.53193116]

gradient= [-2.93380522e-05 -1.91477743e-05 4.84858265e-05] w = [-0.24553468 0.71360352 2.53193116] w\_new= [-0.24553497 0.71360333 2.53193165]

gradient= [-2.93046381e-05 -1.91269712e-05 4.84316094e-05] w = [-0.24553497 0.71360333 2.53193165] w\_new= [-0.24553527 0.71360314 2.53193213]

gradient= [-2.92712623e-05 -1.91061905e-05 4.83774528e-05] w = [-0.24553527 0.71360314 2.53193213] w\_new= [-0.24553556 0.71360294 2.53193261]

gradient= [-2.92379247e-05 -1.90854321e-05 4.83233569e-05] w = [-0.24553556 0.71360294 2.53193261] w\_new= [-0.24553585 0.71360275 2.5319331 ]

gradient= [-2.92046253e-05 -1.90646961e-05 4.82693214e-05] w = [-0.24553585 0.71360275 2.5319331 ] w\_new= [-0.24553614 0.71360256 2.53193358]

gradient= [-2.91713640e-05 -1.90439823e-05 4.82153463e-05] w = [-0.24553614 0.71360256 2.53193358] w\_new= [-0.24553643 0.71360237 2.53193406]

gradient= [-2.91381408e-05 -1.90232909e-05 4.81614316e-05] w = [-0.24553643 0.71360237 2.53193406] w\_new= [-0.24553673 0.71360218 2.53193454]

gradient= [-2.91049556e-05 -1.90026216e-05 4.81075772e-05] w = [-0.24553673 0.71360218 2.53193454] w\_new= [-0.24553702 0.71360199 2.53193502]

gradient= [-2.90718084e-05 -1.89819746e-05 4.80537830e-05] w = [-0.24553702 0.71360199 2.53193502] w\_new= [-0.24553731 0.7136018 2.53193551]

gradient= [-2.90386992e-05 -1.89613498e-05 4.80000490e-05] w = [-0.24553731 0.7136018 2.53193551] w\_new= [-0.2455376 0.71360161 2.53193599]

gradient= [-2.90056278e-05 -1.89407472e-05 4.79463750e-05] w = [-0.2455376 0.71360161 2.53193599] w\_new= [-0.24553789 0.71360142 2.53193646]

gradient= [-2.89725944e-05 -1.89201667e-05 4.78927611e-05] w = [-0.24553789 0.71360142 2.53193646] w\_new= [-0.24553818 0.71360123 2.53193694]

gradient= [-2.89395987e-05 -1.88996083e-05 4.78392071e-05] w = [-0.24553818 0.71360123 2.53193694] w\_new= [-0.24553847 0.71360104 2.53193742]

gradient= [-2.89066409e-05 -1.88790721e-05 4.77857130e-05] w = [-0.24553847 0.71360104 2.53193742] w\_new= [-0.24553876 0.71360086 2.5319379 ]

gradient= [-2.88737208e-05 -1.88585579e-05 4.77322787e-05] w = [-0.24553876 0.71360086 2.5319379 ] w\_new= [-0.24553904 0.71360067 2.53193838]

gradient= [-2.88408383e-05 -1.88380658e-05 4.76789042e-05] w = [-0.24553904 0.71360067 2.53193838] w\_new= [-0.24553933 0.71360048 2.53193885]

gradient= [-2.88079935e-05 -1.88175958e-05 4.76255893e-05] w = [-0.24553933 0.71360048 2.53193885] w\_new= [-0.24553962 0.71360029 2.53193933]

gradient= [-2.87751863e-05 -1.87971477e-05 4.75723341e-05] w = [-0.24553962 0.71360029 2.53193933] w\_new= [-0.24553991 0.7136001 2.53193981]

gradient= [-2.87424167e-05 -1.87767217e-05 4.75191384e-05] w = [-0.24553991 0.7136001 2.53193981] w\_new= [-0.2455402 0.71359992 2.53194028]

gradient= [-2.87096846e-05 -1.87563176e-05 4.74660022e-05] w = [-0.2455402 0.71359992 2.53194028] w\_new= [-0.24554048 0.71359973 2.53194076]

gradient= [-2.86769900e-05 -1.87359355e-05 4.74129254e-05] w = [-0.24554048 0.71359973 2.53194076] w\_new= [-0.24554077 0.71359954 2.53194123]

gradient= [-2.86443327e-05 -1.87155752e-05 4.73599080e-05] w = [-0.24554077 0.71359954 2.53194123] w\_new= [-0.24554106 0.71359935 2.5319417 ]

gradient= [-2.86117129e-05 -1.86952369e-05 4.73069498e-05] w = [-0.24554106 0.71359935 2.5319417 ] w\_new= [-0.24554134 0.71359917 2.53194218]

gradient= [-2.85791304e-05 -1.86749204e-05 4.72540509e-05] w = [-0.24554134 0.71359917 2.53194218] w\_new= [-0.24554163 0.71359898 2.53194265]

gradient= [-2.85465853e-05 -1.86546258e-05 4.72012111e-05] w = [-0.24554163 0.71359898 2.53194265] w\_new= [-0.24554191 0.71359879 2.53194312]

gradient= [-2.85140773e-05 -1.86343531e-05 4.71484304e-05] w = [-0.24554191 0.71359879 2.53194312] w\_new= [-0.2455422 0.71359861 2.53194359]

gradient= [-2.84816066e-05 -1.86141021e-05 4.70957087e-05] w = [-0.2455422 0.71359861 2.53194359] w\_new= [-0.24554248 0.71359842 2.53194406]

gradient= [-2.84491731e-05 -1.85938729e-05 4.70430460e-05] w = [-0.24554248 0.71359842 2.53194406] w\_new= [-0.24554277 0.71359823 2.53194453]

gradient= [-2.84167767e-05 -1.85736655e-05 4.69904422e-05] w = [-0.24554277 0.71359823 2.53194453] w\_new= [-0.24554305 0.71359805 2.531945 ]

gradient= [-2.83844174e-05 -1.85534798e-05 4.69378972e-05] w = [-0.24554305 0.71359805 2.531945 ] w\_new= [-0.24554334 0.71359786 2.53194547]

gradient= [-2.83520951e-05 -1.85333158e-05 4.68854109e-05] w = [-0.24554334 0.71359786 2.53194547] w\_new= [-0.24554362 0.71359768 2.53194594]

gradient= [-2.83198098e-05 -1.85131735e-05 4.68329834e-05] w = [-0.24554362 0.71359768 2.53194594] w\_new= [-0.2455439 0.71359749 2.53194641]

gradient= [-2.82875615e-05 -1.84930529e-05 4.67806144e-05] w = [-0.2455439 0.71359749 2.53194641] w\_new= [-0.24554419 0.71359731 2.53194688]

gradient= [-2.82553501e-05 -1.84729539e-05 4.67283040e-05] w = [-0.24554419 0.71359731 2.53194688] w\_new= [-0.24554447 0.71359712 2.53194735]

gradient= [-2.82231756e-05 -1.84528765e-05 4.66760521e-05] w = [-0.24554447 0.71359712 2.53194735] w\_new= [-0.24554475 0.71359694 2.53194781]

gradient= [-2.81910379e-05 -1.84328208e-05 4.66238587e-05] w = [-0.24554475 0.71359694 2.53194781] w\_new= [-0.24554503 0.71359675 2.53194828]

gradient= [-2.81589370e-05 -1.84127866e-05 4.65717236e-05] w = [-0.24554503 0.71359675 2.53194828] w\_new= [-0.24554531 0.71359657 2.53194874]

gradient= [-2.81268728e-05 -1.83927739e-05 4.65196468e-05] w = [-0.24554531 0.71359657 2.53194874] w\_new= [-0.2455456 0.71359639 2.53194921]

gradient= [-2.80948454e-05 -1.83727828e-05 4.64676282e-05] w = [-0.2455456 0.71359639 2.53194921] w\_new= [-0.24554588 0.7135962 2.53194967]

gradient= [-2.80628546e-05 -1.83528132e-05 4.64156678e-05] w = [-0.24554588 0.7135962 2.53194967] w\_new= [-0.24554616 0.71359602 2.53195014]

gradient= [-2.80309004e-05 -1.83328651e-05 4.63637655e-05] w = [-0.24554616 0.71359602 2.53195014] w\_new= [-0.24554644 0.71359584 2.5319506 ]

gradient= [-2.79989828e-05 -1.83129385e-05 4.63119212e-05] w = [-0.24554644 0.71359584 2.5319506 ] w\_new= [-0.24554672 0.71359565 2.53195106]

gradient= [-2.79671017e-05 -1.82930332e-05 4.62601350e-05] w = [-0.24554672 0.71359565 2.53195106] w\_new= [-0.245547 0.71359547 2.53195153]

gradient= [-2.79352572e-05 -1.82731494e-05 4.62084066e-05] w = [-0.245547 0.71359547 2.53195153] w\_new= [-0.24554728 0.71359529 2.53195199]

gradient= [-2.7903449e-05 -1.8253287e-05 4.6156736e-05] w = [-0.24554728 0.71359529 2.53195199] w\_new= [-0.24554756 0.7135951 2.53195245]

gradient= [-2.78716773e-05 -1.82334460e-05 4.61051233e-05] w = [-0.24554756 0.7135951 2.53195245] w\_new= [-0.24554783 0.71359492 2.53195291]

gradient= [-2.78399420e-05 -1.82136263e-05 4.60535682e-05] w = [-0.24554783 0.71359492 2.53195291] w\_new= [-0.24554811 0.71359474 2.53195337]

gradient= [-2.78082429e-05 -1.81938279e-05 4.60020708e-05] w = [-0.24554811 0.71359474 2.53195337] w\_new= [-0.24554839 0.71359456 2.53195383]

gradient= [-2.77765802e-05 -1.81740508e-05 4.59506310e-05] w = [-0.24554839 0.71359456 2.53195383] w\_new= [-0.24554867 0.71359438 2.53195429]

gradient= [-2.77449537e-05 -1.81542950e-05 4.58992487e-05] w = [-0.24554867 0.71359438 2.53195429] w\_new= [-0.24554895 0.71359419 2.53195475]

gradient= [-2.77133634e-05 -1.81345605e-05 4.58479239e-05] w = [-0.24554895 0.71359419 2.53195475] w\_new= [-0.24554922 0.71359401 2.53195521]

gradient= [-2.76818092e-05 -1.81148472e-05 4.57966564e-05] w = [-0.24554922 0.71359401 2.53195521] w\_new= [-0.2455495 0.71359383 2.53195567]

gradient= [-2.76502912e-05 -1.80951551e-05 4.57454463e-05] w = [-0.2455495 0.71359383 2.53195567] w\_new= [-0.24554978 0.71359365 2.53195613]

gradient= [-2.76188093e-05 -1.80754842e-05 4.56942934e-05] w = [-0.24554978 0.71359365 2.53195613] w\_new= [-0.24555005 0.71359347 2.53195658]

gradient= [-2.75873633e-05 -1.80558344e-05 4.56431978e-05] w = [-0.24555005 0.71359347 2.53195658] w\_new= [-0.24555033 0.71359329 2.53195704]

gradient= [-2.75559534e-05 -1.80362058e-05 4.55921592e-05] w = [-0.24555033 0.71359329 2.53195704] w\_new= [-0.2455506 0.71359311 2.53195749]

gradient= [-2.75245794e-05 -1.80165984e-05 4.55411778e-05] w = [-0.2455506 0.71359311 2.53195749] w\_new= [-0.24555088 0.71359293 2.53195795]

gradient= [-2.74932413e-05 -1.79970120e-05 4.54902533e-05] w = [-0.24555088 0.71359293 2.53195795] w\_new= [-0.24555115 0.71359275 2.5319584 ]

gradient= [-2.74619391e-05 -1.79774467e-05 4.54393858e-05] w = [-0.24555115 0.71359275 2.5319584 ] w\_new= [-0.24555143 0.71359257 2.53195886]

gradient= [-2.74306727e-05 -1.79579024e-05 4.53885752e-05] w = [-0.24555143 0.71359257 2.53195886] w\_new= [-0.2455517 0.71359239 2.53195931]

gradient= [-2.73994421e-05 -1.79383792e-05 4.53378214e-05] w = [-0.2455517 0.71359239 2.53195931] w\_new= [-0.24555198 0.71359221 2.53195977]

gradient= [-2.73682473e-05 -1.79188770e-05 4.52871243e-05] w = [-0.24555198 0.71359221 2.53195977] w\_new= [-0.24555225 0.71359203 2.53196022]

gradient= [-2.73370881e-05 -1.78993958e-05 4.52364839e-05] w = [-0.24555225 0.71359203 2.53196022] w\_new= [-0.24555252 0.71359185 2.53196067]

gradient= [-2.73059646e-05 -1.78799356e-05 4.51859002e-05] w = [-0.24555252 0.71359185 2.53196067] w\_new= [-0.2455528 0.71359167 2.53196112]

gradient= [-2.72748768e-05 -1.78604963e-05 4.51353730e-05] w = [-0.2455528 0.71359167 2.53196112] w\_new= [-0.24555307 0.71359149 2.53196157]

gradient= [-2.72438245e-05 -1.78410779e-05 4.50849023e-05] w = [-0.24555307 0.71359149 2.53196157] w\_new= [-0.24555334 0.71359132 2.53196203]

gradient= [-2.72128077e-05 -1.78216804e-05 4.50344881e-05] w = [-0.24555334 0.71359132 2.53196203] w\_new= [-0.24555361 0.71359114 2.53196248]

gradient= [-2.71818264e-05 -1.78023038e-05 4.49841302e-05] w = [-0.24555361 0.71359114 2.53196248] w\_new= [-0.24555389 0.71359096 2.53196293]

gradient= [-2.71508806e-05 -1.77829480e-05 4.49338287e-05] w = [-0.24555389 0.71359096 2.53196293] w\_new= [-0.24555416 0.71359078 2.53196338]

gradient= [-2.71199702e-05 -1.77636131e-05 4.48835833e-05] w = [-0.24555416 0.71359078 2.53196338] w\_new= [-0.24555443 0.7135906 2.53196382]

gradient= [-2.70890952e-05 -1.77442990e-05 4.48333942e-05] w = [-0.24555443 0.7135906 2.53196382] w\_new= [-0.2455547 0.71359043 2.53196427]

gradient= [-2.70582555e-05 -1.77250057e-05 4.47832612e-05] w = [-0.2455547 0.71359043 2.53196427] w\_new= [-0.24555497 0.71359025 2.53196472]

gradient= [-2.70274511e-05 -1.77057331e-05 4.47331842e-05] w = [-0.24555497 0.71359025 2.53196472] w\_new= [-0.24555524 0.71359007 2.53196517]

gradient= [-2.69966820e-05 -1.76864813e-05 4.46831633e-05] w = [-0.24555524 0.71359007 2.53196517] w\_new= [-0.24555551 0.7135899 2.53196561]

gradient= [-2.69659481e-05 -1.76672502e-05 4.46331983e-05] w = [-0.24555551 0.7135899 2.53196561] w\_new= [-0.24555578 0.71358972 2.53196606]

gradient= [-2.69352493e-05 -1.76480398e-05 4.45832891e-05] w = [-0.24555578 0.71358972 2.53196606] w\_new= [-0.24555605 0.71358954 2.53196651]

gradient= [-2.69045857e-05 -1.76288501e-05 4.45334357e-05] w = [-0.24555605 0.71358954 2.53196651] w\_new= [-0.24555632 0.71358937 2.53196695]

gradient= [-2.68739571e-05 -1.76096810e-05 4.44836381e-05] w = [-0.24555632 0.71358937 2.53196695] w\_new= [-0.24555659 0.71358919 2.5319674 ]

gradient= [-2.68433637e-05 -1.75905326e-05 4.44338962e-05] w = [-0.24555659 0.71358919 2.5319674 ] w\_new= [-0.24555686 0.71358901 2.53196784]

gradient= [-2.68128052e-05 -1.75714048e-05 4.43842099e-05] w = [-0.24555686 0.71358901 2.53196784] w\_new= [-0.24555712 0.71358884 2.53196828]

gradient= [-2.67822817e-05 -1.75522975e-05 4.43345792e-05] w = [-0.24555712 0.71358884 2.53196828] w\_new= [-0.24555739 0.71358866 2.53196873]

gradient= [-2.67517931e-05 -1.75332109e-05 4.42850039e-05] w = [-0.24555739 0.71358866 2.53196873] w\_new= [-0.24555766 0.71358849 2.53196917]

gradient= [-2.67213394e-05 -1.75141448e-05 4.42354841e-05] w = [-0.24555766 0.71358849 2.53196917] w\_new= [-0.24555793 0.71358831 2.53196961]

gradient= [-2.66909205e-05 -1.74950992e-05 4.41860197e-05] w = [-0.24555793 0.71358831 2.53196961] w\_new= [-0.24555819 0.71358814 2.53197006]

gradient= [-2.66605365e-05 -1.74760741e-05 4.41366106e-05] w = [-0.24555819 0.71358814 2.53197006] w\_new= [-0.24555846 0.71358796 2.5319705 ]

gradient= [-2.66301872e-05 -1.74570695e-05 4.40872567e-05] w = [-0.24555846 0.71358796 2.5319705 ] w\_new= [-0.24555873 0.71358779 2.53197094]

gradient= [-2.65998727e-05 -1.74380853e-05 4.40379580e-05] w = [-0.24555873 0.71358779 2.53197094] w\_new= [-0.24555899 0.71358761 2.53197138]

gradient= [-2.65695928e-05 -1.74191216e-05 4.39887144e-05] w = [-0.24555899 0.71358761 2.53197138] w\_new= [-0.24555926 0.71358744 2.53197182]

gradient= [-2.65393476e-05 -1.74001783e-05 4.39395259e-05] w = [-0.24555926 0.71358744 2.53197182] w\_new= [-0.24555952 0.71358727 2.53197226]

gradient= [-2.65091370e-05 -1.73812554e-05 4.38903924e-05] w = [-0.24555952 0.71358727 2.53197226] w\_new= [-0.24555979 0.71358709 2.5319727 ]

gradient= [-2.64789609e-05 -1.73623529e-05 4.38413139e-05] w = [-0.24555979 0.71358709 2.5319727 ] w\_new= [-0.24556005 0.71358692 2.53197313]

gradient= [-2.64488194e-05 -1.73434708e-05 4.37922902e-05] w = [-0.24556005 0.71358692 2.53197313] w\_new= [-0.24556032 0.71358675 2.53197357]

gradient= [-2.64187124e-05 -1.73246089e-05 4.37433213e-05] w = [-0.24556032 0.71358675 2.53197357] w\_new= [-0.24556058 0.71358657 2.53197401]

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gradient= [-2.62089256e-05 -1.71931434e-05 4.34020690e-05] w = [-0.24556216 0.71358554 2.53197662] w\_new= [-0.24556242 0.71358536 2.53197706]

gradient= [-2.61790931e-05 -1.71744434e-05 4.33535365e-05] w = [-0.24556242 0.71358536 2.53197706] w\_new= [-0.24556268 0.71358519 2.53197749]

gradient= [-2.61492947e-05 -1.71557636e-05 4.33050582e-05] w = [-0.24556268 0.71358519 2.53197749] w\_new= [-0.24556295 0.71358502 2.53197792]

gradient= [-2.61195303e-05 -1.71371039e-05 4.32566342e-05] w = [-0.24556295 0.71358502 2.53197792] w\_new= [-0.24556321 0.71358485 2.53197836]

gradient= [-2.60898001e-05 -1.71184642e-05 4.32082643e-05] w = [-0.24556321 0.71358485 2.53197836] w\_new= [-0.24556347 0.71358468 2.53197879]

gradient= [-2.60601038e-05 -1.70998446e-05 4.31599485e-05] w = [-0.24556347 0.71358468 2.53197879] w\_new= [-0.24556373 0.71358451 2.53197922]

gradient= [-2.60304416e-05 -1.70812451e-05 4.31116867e-05] w = [-0.24556373 0.71358451 2.53197922] w\_new= [-0.24556399 0.71358434 2.53197965]

gradient= [-2.60008132e-05 -1.70626656e-05 4.30634789e-05] w = [-0.24556399 0.71358434 2.53197965] w\_new= [-0.24556425 0.71358417 2.53198008]

gradient= [-2.59712188e-05 -1.70441062e-05 4.30153249e-05] w = [-0.24556425 0.71358417 2.53198008] w\_new= [-0.24556451 0.713584 2.53198051]

gradient= [-2.59416582e-05 -1.70255667e-05 4.29672249e-05] w = [-0.24556451 0.713584 2.53198051] w\_new= [-0.24556477 0.71358383 2.53198094]

gradient= [-2.59121314e-05 -1.70070471e-05 4.29191786e-05] w = [-0.24556477 0.71358383 2.53198094] w\_new= [-0.24556503 0.71358366 2.53198137]

gradient= [-2.58826385e-05 -1.69885476e-05 4.28711860e-05] w = [-0.24556503 0.71358366 2.53198137] w\_new= [-0.24556529 0.71358349 2.5319818 ]

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gradient= [-2.58237537e-05 -1.69516081e-05 4.27753618e-05] w = [-0.24556554 0.71358332 2.53198223] w\_new= [-0.2455658 0.71358315 2.53198266]

gradient= [-2.57943618e-05 -1.69331683e-05 4.27275301e-05] w = [-0.2455658 0.71358315 2.53198266] w\_new= [-0.24556606 0.71358298 2.53198308]

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gradient= [-2.57356789e-05 -1.68963481e-05 4.26320269e-05] w = [-0.24556632 0.71358281 2.53198351] w\_new= [-0.24556658 0.71358264 2.53198394]

gradient= [-2.57063878e-05 -1.68779677e-05 4.25843555e-05] w = [-0.24556658 0.71358264 2.53198394] w\_new= [-0.24556683 0.71358247 2.53198436]

gradient= [-2.56771302e-05 -1.68596071e-05 4.25367373e-05] w = [-0.24556683 0.71358247 2.53198436] w\_new= [-0.24556709 0.7135823 2.53198479]

gradient= [-2.56479060e-05 -1.68412663e-05 4.24891724e-05] w = [-0.24556709 0.7135823 2.53198479] w\_new= [-0.24556735 0.71358213 2.53198521]

gradient= [-2.56187153e-05 -1.68229453e-05 4.24416606e-05] w = [-0.24556735 0.71358213 2.53198521] w\_new= [-0.2455676 0.71358196 2.53198564]

gradient= [-2.5589558e-05 -1.6804644e-05 4.2394202e-05] w = [-0.2455676 0.71358196 2.53198564] w\_new= [-0.24556786 0.7135818 2.53198606]

gradient= [-2.55604340e-05 -1.67863624e-05 4.23467965e-05] w = [-0.24556786 0.7135818 2.53198606] w\_new= [-0.24556811 0.71358163 2.53198648]

gradient= [-2.55313434e-05 -1.67681005e-05 4.22994439e-05] w = [-0.24556811 0.71358163 2.53198648] w\_new= [-0.24556837 0.71358146 2.53198691]

gradient= [-2.55022860e-05 -1.67498583e-05 4.22521443e-05] w = [-0.24556837 0.71358146 2.53198691] w\_new= [-0.24556862 0.71358129 2.53198733]

gradient= [-2.54732619e-05 -1.67316357e-05 4.22048976e-05] w = [-0.24556862 0.71358129 2.53198733] w\_new= [-0.24556888 0.71358113 2.53198775]

gradient= [-2.54442710e-05 -1.67134328e-05 4.21577038e-05] w = [-0.24556888 0.71358113 2.53198775] w\_new= [-0.24556913 0.71358096 2.53198817]

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gradient= [-2.53574970e-05 -1.66589415e-05 4.20164385e-05] w = [-0.24556964 0.71358063 2.53198902] w\_new= [-0.2455699 0.71358046 2.53198944]

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gradient= [-2.52135343e-05 -1.65685133e-05 4.17820476e-05] w = [-0.24557091 0.71357979 2.53199111] w\_new= [-0.24557116 0.71357963 2.53199153]

gradient= [-2.51848404e-05 -1.65504861e-05 4.17353265e-05] w = [-0.24557116 0.71357963 2.53199153] w\_new= [-0.24557141 0.71357946 2.53199195]

gradient= [-2.51561794e-05 -1.65324783e-05 4.16886577e-05] w = [-0.24557141 0.71357946 2.53199195] w\_new= [-0.24557166 0.7135793 2.53199236]

gradient= [-2.51275512e-05 -1.65144899e-05 4.16420411e-05] w = [-0.24557166 0.7135793 2.53199236] w\_new= [-0.24557191 0.71357913 2.53199278]

gradient= [-2.50989557e-05 -1.64965209e-05 4.15954766e-05] w = [-0.24557191 0.71357913 2.53199278] w\_new= [-0.24557216 0.71357897 2.5319932 ]

gradient= [-2.50703930e-05 -1.64785712e-05 4.15489642e-05] w = [-0.24557216 0.71357897 2.5319932 ] w\_new= [-0.24557242 0.7135788 2.53199361]

gradient= [-2.50418629e-05 -1.64606409e-05 4.15025038e-05] w = [-0.24557242 0.7135788 2.53199361] w\_new= [-0.24557267 0.71357864 2.53199403]

gradient= [-2.50133654e-05 -1.64427299e-05 4.14560953e-05] w = [-0.24557267 0.71357864 2.53199403] w\_new= [-0.24557292 0.71357847 2.53199444]

gradient= [-2.49849005e-05 -1.64248382e-05 4.14097387e-05] w = [-0.24557292 0.71357847 2.53199444] w\_new= [-0.24557317 0.71357831 2.53199486]

gradient= [-2.49564682e-05 -1.64069658e-05 4.13634340e-05] w = [-0.24557317 0.71357831 2.53199486] w\_new= [-0.24557342 0.71357815 2.53199527]

gradient= [-2.49280684e-05 -1.63891126e-05 4.13171810e-05] w = [-0.24557342 0.71357815 2.53199527] w\_new= [-0.24557366 0.71357798 2.53199568]

gradient= [-2.48997011e-05 -1.63712787e-05 4.12709797e-05] w = [-0.24557366 0.71357798 2.53199568] w\_new= [-0.24557391 0.71357782 2.5319961 ]

gradient= [-2.48713662e-05 -1.63534639e-05 4.12248302e-05] w = [-0.24557391 0.71357782 2.5319961 ] w\_new= [-0.24557416 0.71357765 2.53199651]

gradient= [-2.48430638e-05 -1.63356684e-05 4.11787322e-05] w = [-0.24557416 0.71357765 2.53199651] w\_new= [-0.24557441 0.71357749 2.53199692]

gradient= [-2.48147937e-05 -1.63178921e-05 4.11326857e-05] w = [-0.24557441 0.71357749 2.53199692] w\_new= [-0.24557466 0.71357733 2.53199733]

gradient= [-2.47865559e-05 -1.63001349e-05 4.10866908e-05] w = [-0.24557466 0.71357733 2.53199733] w\_new= [-0.24557491 0.71357717 2.53199774]

gradient= [-2.47583505e-05 -1.62823968e-05 4.10407473e-05] w = [-0.24557491 0.71357717 2.53199774] w\_new= [-0.24557515 0.713577 2.53199815]

gradient= [-2.47301773e-05 -1.62646779e-05 4.09948551e-05] w = [-0.24557515 0.713577 2.53199815] w\_new= [-0.2455754 0.71357684 2.53199856]

gradient= [-2.47020363e-05 -1.62469780e-05 4.09490143e-05] w = [-0.2455754 0.71357684 2.53199856] w\_new= [-0.24557565 0.71357668 2.53199897]

gradient= [-2.46739275e-05 -1.62292972e-05 4.09032247e-05] w = [-0.24557565 0.71357668 2.53199897] w\_new= [-0.2455759 0.71357651 2.53199938]

gradient= [-2.46458508e-05 -1.62116355e-05 4.08574863e-05] w = [-0.2455759 0.71357651 2.53199938] w\_new= [-0.24557614 0.71357635 2.53199979]

gradient= [-2.46178063e-05 -1.61939928e-05 4.08117991e-05] w = [-0.24557614 0.71357635 2.53199979] w\_new= [-0.24557639 0.71357619 2.5320002 ]

gradient= [-2.45897938e-05 -1.61763691e-05 4.07661630e-05] w = [-0.24557639 0.71357619 2.5320002 ] w\_new= [-0.24557663 0.71357603 2.5320006 ]

gradient= [-2.45618134e-05 -1.61587644e-05 4.07205778e-05] w = [-0.24557663 0.71357603 2.5320006 ] w\_new= [-0.24557688 0.71357587 2.53200101]

gradient= [-2.45338650e-05 -1.61411787e-05 4.06750437e-05] w = [-0.24557688 0.71357587 2.53200101] w\_new= [-0.24557712 0.71357571 2.53200142]

gradient= [-2.45059485e-05 -1.61236120e-05 4.06295605e-05] w = [-0.24557712 0.71357571 2.53200142] w\_new= [-0.24557737 0.71357554 2.53200182]

gradient= [-2.44780640e-05 -1.61060641e-05 4.05841281e-05] w = [-0.24557737 0.71357554 2.53200182] w\_new= [-0.24557761 0.71357538 2.53200223]

gradient= [-2.44502113e-05 -1.60885352e-05 4.05387465e-05] w = [-0.24557761 0.71357538 2.53200223] w\_new= [-0.24557786 0.71357522 2.53200264]

gradient= [-2.44223905e-05 -1.60710252e-05 4.04934157e-05] w = [-0.24557786 0.71357522 2.53200264] w\_new= [-0.2455781 0.71357506 2.53200304]

gradient= [-2.43946015e-05 -1.60535340e-05 4.04481356e-05] w = [-0.2455781 0.71357506 2.53200304] w\_new= [-0.24557835 0.7135749 2.53200345]

gradient= [-2.43668443e-05 -1.60360617e-05 4.04029061e-05] w = [-0.24557835 0.7135749 2.53200345] w\_new= [-0.24557859 0.71357474 2.53200385]

gradient= [-2.43391189e-05 -1.60186082e-05 4.03577271e-05] w = [-0.24557859 0.71357474 2.53200385] w\_new= [-0.24557883 0.71357458 2.53200425]

gradient= [-2.43114251e-05 -1.60011736e-05 4.03125987e-05] w = [-0.24557883 0.71357458 2.53200425] w\_new= [-0.24557908 0.71357442 2.53200466]

gradient= [-2.42837630e-05 -1.59837577e-05 4.02675208e-05] w = [-0.24557908 0.71357442 2.53200466] w\_new= [-0.24557932 0.71357426 2.53200506]

gradient= [-2.42561326e-05 -1.59663606e-05 4.02224932e-05] w = [-0.24557932 0.71357426 2.53200506] w\_new= [-0.24557956 0.7135741 2.53200546]

gradient= [-2.42285337e-05 -1.59489823e-05 4.01775160e-05] w = [-0.24557956 0.7135741 2.53200546] w\_new= [-0.2455798 0.71357394 2.53200586]

gradient= [-2.42009664e-05 -1.59316227e-05 4.01325891e-05] w = [-0.2455798 0.71357394 2.53200586] w\_new= [-0.24558005 0.71357378 2.53200626]

gradient= [-2.41734307e-05 -1.59142818e-05 4.00877124e-05] w = [-0.24558005 0.71357378 2.53200626] w\_new= [-0.24558029 0.71357362 2.53200667]

gradient= [-2.41459264e-05 -1.58969595e-05 4.00428859e-05] w = [-0.24558029 0.71357362 2.53200667] w\_new= [-0.24558053 0.71357346 2.53200707]

gradient= [-2.41184536e-05 -1.58796560e-05 3.99981096e-05] w = [-0.24558053 0.71357346 2.53200707] w\_new= [-0.24558077 0.71357331 2.53200747]

gradient= [-2.40910122e-05 -1.58623711e-05 3.99533833e-05] w = [-0.24558077 0.71357331 2.53200747] w\_new= [-0.24558101 0.71357315 2.53200787]

gradient= [-2.40636021e-05 -1.58451049e-05 3.99087070e-05] w = [-0.24558101 0.71357315 2.53200787] w\_new= [-0.24558125 0.71357299 2.53200826]

gradient= [-2.40362234e-05 -1.58278572e-05 3.98640806e-05] w = [-0.24558125 0.71357299 2.53200826] w\_new= [-0.24558149 0.71357283 2.53200866]

gradient= [-2.40088760e-05 -1.58106282e-05 3.98195042e-05] w = [-0.24558149 0.71357283 2.53200866] w\_new= [-0.24558173 0.71357267 2.53200906]

gradient= [-2.39815599e-05 -1.57934177e-05 3.97749776e-05] w = [-0.24558173 0.71357267 2.53200906] w\_new= [-0.24558197 0.71357251 2.53200946]

gradient= [-2.39542750e-05 -1.57762258e-05 3.97305008e-05] w = [-0.24558197 0.71357251 2.53200946] w\_new= [-0.24558221 0.71357236 2.53200986]

gradient= [-2.39270214e-05 -1.57590524e-05 3.96860737e-05] w = [-0.24558221 0.71357236 2.53200986] w\_new= [-0.24558245 0.7135722 2.53201025]

gradient= [-2.38997989e-05 -1.57418975e-05 3.96416964e-05] w = [-0.24558245 0.7135722 2.53201025] w\_new= [-0.24558269 0.71357204 2.53201065]

gradient= [-2.38726075e-05 -1.57247611e-05 3.95973686e-05] w = [-0.24558269 0.71357204 2.53201065] w\_new= [-0.24558293 0.71357188 2.53201105]

gradient= [-2.38454472e-05 -1.57076432e-05 3.95530904e-05] w = [-0.24558293 0.71357188 2.53201105] w\_new= [-0.24558317 0.71357173 2.53201144]

gradient= [-2.38183179e-05 -1.56905438e-05 3.95088617e-05] w = [-0.24558317 0.71357173 2.53201144] w\_new= [-0.24558341 0.71357157 2.53201184]

gradient= [-2.37912197e-05 -1.56734627e-05 3.94646824e-05] w = [-0.24558341 0.71357157 2.53201184] w\_new= [-0.24558364 0.71357141 2.53201223]

gradient= [-2.37641525e-05 -1.56564001e-05 3.94205526e-05] w = [-0.24558364 0.71357141 2.53201223] w\_new= [-0.24558388 0.71357126 2.53201262]

gradient= [-2.37371162e-05 -1.56393559e-05 3.93764721e-05] w = [-0.24558388 0.71357126 2.53201262] w\_new= [-0.24558412 0.7135711 2.53201302]

gradient= [-2.37101108e-05 -1.56223301e-05 3.93324409e-05] w = [-0.24558412 0.7135711 2.53201302] w\_new= [-0.24558436 0.71357094 2.53201341]

gradient= [-2.36831363e-05 -1.56053226e-05 3.92884589e-05] w = [-0.24558436 0.71357094 2.53201341] w\_new= [-0.24558459 0.71357079 2.5320138 ]

gradient= [-2.36561927e-05 -1.55883335e-05 3.92445261e-05] w = [-0.24558459 0.71357079 2.5320138 ] w\_new= [-0.24558483 0.71357063 2.5320142 ]

gradient= [-2.36292798e-05 -1.55713627e-05 3.92006425e-05] w = [-0.24558483 0.71357063 2.5320142 ] w\_new= [-0.24558507 0.71357048 2.53201459]

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gradient= [-2.35755464e-05 -1.55374759e-05 3.91130223e-05] w = [-0.2455853 0.71357032 2.53201498] w\_new= [-0.24558554 0.71357017 2.53201537]

gradient= [-2.35487257e-05 -1.55205599e-05 3.90692857e-05] w = [-0.24558554 0.71357017 2.53201537] w\_new= [-0.24558577 0.71357001 2.53201576]

gradient= [-2.35219358e-05 -1.55036622e-05 3.90255979e-05] w = [-0.24558577 0.71357001 2.53201576] w\_new= [-0.24558601 0.71356986 2.53201615]

gradient= [-2.34951764e-05 -1.54867826e-05 3.89819591e-05] w = [-0.24558601 0.71356986 2.53201615] w\_new= [-0.24558624 0.7135697 2.53201654]

gradient= [-2.34684477e-05 -1.54699213e-05 3.89383690e-05] w = [-0.24558624 0.7135697 2.53201654] w\_new= [-0.24558648 0.71356955 2.53201693]

gradient= [-2.34417495e-05 -1.54530782e-05 3.88948276e-05] w = [-0.24558648 0.71356955 2.53201693] w\_new= [-0.24558671 0.71356939 2.53201732]

gradient= [-2.34150818e-05 -1.54362532e-05 3.88513350e-05] w = [-0.24558671 0.71356939 2.53201732] w\_new= [-0.24558695 0.71356924 2.53201771]

gradient= [-2.33884446e-05 -1.54194464e-05 3.88078910e-05] w = [-0.24558695 0.71356924 2.53201771] w\_new= [-0.24558718 0.71356908 2.5320181 ]

gradient= [-2.33618379e-05 -1.54026577e-05 3.87644955e-05] w = [-0.24558718 0.71356908 2.5320181 ] w\_new= [-0.24558741 0.71356893 2.53201849]

gradient= [-2.33352616e-05 -1.53858871e-05 3.87211486e-05] w = [-0.24558741 0.71356893 2.53201849] w\_new= [-0.24558765 0.71356878 2.53201887]

gradient= [-2.33087156e-05 -1.53691345e-05 3.86778502e-05] w = [-0.24558765 0.71356878 2.53201887] w\_new= [-0.24558788 0.71356862 2.53201926]

gradient= [-2.32822001e-05 -1.53524001e-05 3.86346002e-05] w = [-0.24558788 0.71356862 2.53201926] w\_new= [-0.24558811 0.71356847 2.53201965]

gradient= [-2.32557148e-05 -1.53356837e-05 3.85913985e-05] w = [-0.24558811 0.71356847 2.53201965] w\_new= [-0.24558835 0.71356831 2.53202003]

gradient= [-2.32292598e-05 -1.53189853e-05 3.85482451e-05] w = [-0.24558835 0.71356831 2.53202003] w\_new= [-0.24558858 0.71356816 2.53202042]

gradient= [-2.32028351e-05 -1.53023049e-05 3.85051400e-05] w = [-0.24558858 0.71356816 2.53202042] w\_new= [-0.24558881 0.71356801 2.5320208 ]

gradient= [-2.31764406e-05 -1.52856425e-05 3.84620831e-05] w = [-0.24558881 0.71356801 2.5320208 ] w\_new= [-0.24558904 0.71356786 2.53202119]

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gradient= [-2.31237420e-05 -1.52523717e-05 3.83761136e-05] w = [-0.24558927 0.7135677 2.53202157] w\_new= [-0.2455895 0.71356755 2.53202195]

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gradient= [-2.30711638e-05 -1.52191725e-05 3.82903363e-05] w = [-0.24558974 0.7135674 2.53202234] w\_new= [-0.24558997 0.71356725 2.53202272]

gradient= [-2.30449198e-05 -1.52025998e-05 3.82475196e-05] w = [-0.24558997 0.71356725 2.53202272] w\_new= [-0.2455902 0.71356709 2.5320231 ]

gradient= [-2.30187058e-05 -1.51860449e-05 3.82047508e-05] w = [-0.2455902 0.71356709 2.5320231 ] w\_new= [-0.24559043 0.71356694 2.53202349]

gradient= [-2.29925218e-05 -1.51695079e-05 3.81620297e-05] w = [-0.24559043 0.71356694 2.53202349] w\_new= [-0.24559066 0.71356679 2.53202387]

gradient= [-2.29663677e-05 -1.51529888e-05 3.81193565e-05] w = [-0.24559066 0.71356679 2.53202387] w\_new= [-0.24559089 0.71356664 2.53202425]

gradient= [-2.29402435e-05 -1.51364875e-05 3.80767309e-05] w = [-0.24559089 0.71356664 2.53202425] w\_new= [-0.24559112 0.71356649 2.53202463]

gradient= [-2.29141491e-05 -1.51200039e-05 3.80341530e-05] w = [-0.24559112 0.71356649 2.53202463] w\_new= [-0.24559135 0.71356634 2.53202501]

gradient= [-2.28880846e-05 -1.51035382e-05 3.79916228e-05] w = [-0.24559135 0.71356634 2.53202501] w\_new= [-0.24559157 0.71356619 2.53202539]

gradient= [-2.28620499e-05 -1.50870902e-05 3.79491401e-05] w = [-0.24559157 0.71356619 2.53202539] w\_new= [-0.2455918 0.71356603 2.53202577]

gradient= [-2.28360449e-05 -1.50706599e-05 3.79067048e-05] w = [-0.2455918 0.71356603 2.53202577] w\_new= [-0.24559203 0.71356588 2.53202615]

gradient= [-2.28100697e-05 -1.50542474e-05 3.78643171e-05] w = [-0.24559203 0.71356588 2.53202615] w\_new= [-0.24559226 0.71356573 2.53202653]

gradient= [-2.27841242e-05 -1.50378525e-05 3.78219767e-05] w = [-0.24559226 0.71356573 2.53202653] w\_new= [-0.24559249 0.71356558 2.5320269 ]

gradient= [-2.27582083e-05 -1.50214754e-05 3.77796837e-05] w = [-0.24559249 0.71356558 2.5320269 ] w\_new= [-0.24559271 0.71356543 2.53202728]

gradient= [-2.27323220e-05 -1.50051159e-05 3.77374379e-05] w = [-0.24559271 0.71356543 2.53202728] w\_new= [-0.24559294 0.71356528 2.53202766]

gradient= [-2.27064654e-05 -1.49887741e-05 3.76952394e-05] w = [-0.24559294 0.71356528 2.53202766] w\_new= [-0.24559317 0.71356513 2.53202804]

gradient= [-2.26806383e-05 -1.49724499e-05 3.76530881e-05] w = [-0.24559317 0.71356513 2.53202804] w\_new= [-0.2455934 0.71356498 2.53202841]

gradient= [-2.26548407e-05 -1.49561433e-05 3.76109839e-05] w = [-0.2455934 0.71356498 2.53202841] w\_new= [-0.24559362 0.71356483 2.53202879]

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gradient= [-2.25006732e-05 -1.48586725e-05 3.73593457e-05] w = [-0.24559475 0.71356409 2.53203066] w\_new= [-0.24559498 0.71356394 2.53203104]

gradient= [-2.24750813e-05 -1.48424886e-05 3.73175699e-05] w = [-0.24559498 0.71356394 2.53203104] w\_new= [-0.2455952 0.71356379 2.53203141]

gradient= [-2.24495187e-05 -1.48263223e-05 3.72758409e-05] w = [-0.2455952 0.71356379 2.53203141] w\_new= [-0.24559543 0.71356364 2.53203178]

gradient= [-2.24239852e-05 -1.48101733e-05 3.72341586e-05] w = [-0.24559543 0.71356364 2.53203178] w\_new= [-0.24559565 0.71356349 2.53203216]

gradient= [-2.23984810e-05 -1.47940418e-05 3.71925228e-05] w = [-0.24559565 0.71356349 2.53203216] w\_new= [-0.24559587 0.71356335 2.53203253]

gradient= [-2.23730059e-05 -1.47779277e-05 3.71509336e-05] w = [-0.24559587 0.71356335 2.53203253] w\_new= [-0.2455961 0.7135632 2.5320329]

gradient= [-2.23475600e-05 -1.47618310e-05 3.71093909e-05] w = [-0.2455961 0.7135632 2.5320329] w\_new= [-0.24559632 0.71356305 2.53203327]

gradient= [-2.23221431e-05 -1.47457516e-05 3.70678947e-05] w = [-0.24559632 0.71356305 2.53203327] w\_new= [-0.24559654 0.7135629 2.53203364]

gradient= [-2.22967552e-05 -1.47296896e-05 3.70264448e-05] w = [-0.24559654 0.7135629 2.53203364] w\_new= [-0.24559677 0.71356276 2.53203401]

gradient= [-2.22713964e-05 -1.47136449e-05 3.69850413e-05] w = [-0.24559677 0.71356276 2.53203401] w\_new= [-0.24559699 0.71356261 2.53203438]

gradient= [-2.22460666e-05 -1.46976175e-05 3.69436841e-05] w = [-0.24559699 0.71356261 2.53203438] w\_new= [-0.24559721 0.71356246 2.53203475]

gradient= [-2.22207657e-05 -1.46816075e-05 3.69023732e-05] w = [-0.24559721 0.71356246 2.53203475] w\_new= [-0.24559743 0.71356232 2.53203512]

gradient= [-2.21954937e-05 -1.46656147e-05 3.68611084e-05] w = [-0.24559743 0.71356232 2.53203512] w\_new= [-0.24559766 0.71356217 2.53203549]

gradient= [-2.21702507e-05 -1.46496391e-05 3.68198898e-05] w = [-0.24559766 0.71356217 2.53203549] w\_new= [-0.24559788 0.71356202 2.53203586]

gradient= [-2.21450364e-05 -1.46336808e-05 3.67787173e-05] w = [-0.24559788 0.71356202 2.53203586] w\_new= [-0.2455981 0.71356188 2.53203622]

gradient= [-2.21198510e-05 -1.46177398e-05 3.67375908e-05] w = [-0.2455981 0.71356188 2.53203622] w\_new= [-0.24559832 0.71356173 2.53203659]

gradient= [-2.20946944e-05 -1.46018159e-05 3.66965103e-05] w = [-0.24559832 0.71356173 2.53203659] w\_new= [-0.24559854 0.71356158 2.53203696]

gradient= [-2.20695665e-05 -1.45859092e-05 3.66554757e-05] w = [-0.24559854 0.71356158 2.53203696] w\_new= [-0.24559876 0.71356144 2.53203732]

gradient= [-2.20444673e-05 -1.45700197e-05 3.66144870e-05] w = [-0.24559876 0.71356144 2.53203732] w\_new= [-0.24559898 0.71356129 2.53203769]

gradient= [-2.20193969e-05 -1.45541473e-05 3.65735441e-05] w = [-0.24559898 0.71356129 2.53203769] w\_new= [-0.2455992 0.71356115 2.53203806]

gradient= [-2.19943550e-05 -1.45382920e-05 3.65326471e-05] w = [-0.2455992 0.71356115 2.53203806] w\_new= [-0.24559942 0.713561 2.53203842]

gradient= [-2.19693418e-05 -1.45224539e-05 3.64917957e-05] w = [-0.24559942 0.713561 2.53203842] w\_new= [-0.24559964 0.71356086 2.53203879]

gradient= [-2.19443572e-05 -1.45066328e-05 3.64509900e-05] w = [-0.24559964 0.71356086 2.53203879] w\_new= [-0.24559986 0.71356071 2.53203915]

gradient= [-2.19194011e-05 -1.44908289e-05 3.64102300e-05] w = [-0.24559986 0.71356071 2.53203915] w\_new= [-0.24560008 0.71356057 2.53203952]

gradient= [-2.18944736e-05 -1.44750420e-05 3.63695155e-05] w = [-0.24560008 0.71356057 2.53203952] w\_new= [-0.2456003 0.71356042 2.53203988]

gradient= [-2.18695745e-05 -1.44592721e-05 3.63288466e-05] w = [-0.2456003 0.71356042 2.53203988] w\_new= [-0.24560052 0.71356028 2.53204024]

gradient= [-2.18447039e-05 -1.44435192e-05 3.62882231e-05] w = [-0.24560052 0.71356028 2.53204024] w\_new= [-0.24560074 0.71356013 2.53204061]

gradient= [-2.18198617e-05 -1.44277834e-05 3.62476451e-05] w = [-0.24560074 0.71356013 2.53204061] w\_new= [-0.24560096 0.71355999 2.53204097]

gradient= [-2.17950479e-05 -1.44120645e-05 3.62071124e-05] w = [-0.24560096 0.71355999 2.53204097] w\_new= [-0.24560117 0.71355984 2.53204133]

gradient= [-2.17702625e-05 -1.43963626e-05 3.61666250e-05] w = [-0.24560117 0.71355984 2.53204133] w\_new= [-0.24560139 0.7135597 2.53204169]

gradient= [-2.17455053e-05 -1.43806776e-05 3.61261829e-05] w = [-0.24560139 0.7135597 2.53204169] w\_new= [-0.24560161 0.71355956 2.53204205]

gradient= [-2.17207765e-05 -1.43650096e-05 3.60857861e-05] w = [-0.24560161 0.71355956 2.53204205] w\_new= [-0.24560183 0.71355941 2.53204241]

gradient= [-2.16960759e-05 -1.43493585e-05 3.60454344e-05] w = [-0.24560183 0.71355941 2.53204241] w\_new= [-0.24560204 0.71355927 2.53204277]

gradient= [-2.16714036e-05 -1.43337242e-05 3.60051278e-05] w = [-0.24560204 0.71355927 2.53204277] w\_new= [-0.24560226 0.71355913 2.53204313]

gradient= [-2.16467594e-05 -1.43181069e-05 3.59648663e-05] w = [-0.24560226 0.71355913 2.53204313] w\_new= [-0.24560248 0.71355898 2.53204349]

gradient= [-2.16221435e-05 -1.43025064e-05 3.59246498e-05] w = [-0.24560248 0.71355898 2.53204349] w\_new= [-0.24560269 0.71355884 2.53204385]

gradient= [-2.15975556e-05 -1.42869227e-05 3.58844783e-05] w = [-0.24560269 0.71355884 2.53204385] w\_new= [-0.24560291 0.7135587 2.53204421]

gradient= [-2.15729958e-05 -1.42713559e-05 3.58443517e-05] w = [-0.24560291 0.7135587 2.53204421] w\_new= [-0.24560312 0.71355855 2.53204457]

gradient= [-2.15484641e-05 -1.42558059e-05 3.58042700e-05] w = [-0.24560312 0.71355855 2.53204457] w\_new= [-0.24560334 0.71355841 2.53204493]

gradient= [-2.15239605e-05 -1.42402726e-05 3.57642331e-05] w = [-0.24560334 0.71355841 2.53204493] w\_new= [-0.24560355 0.71355827 2.53204529]

gradient= [-2.14994848e-05 -1.42247561e-05 3.57242409e-05] w = [-0.24560355 0.71355827 2.53204529] w\_new= [-0.24560377 0.71355813 2.53204564]

gradient= [-2.14750371e-05 -1.42092564e-05 3.56842935e-05] w = [-0.24560377 0.71355813 2.53204564] w\_new= [-0.24560398 0.71355798 2.532046 ]

gradient= [-2.14506173e-05 -1.41937734e-05 3.56443907e-05] w = [-0.24560398 0.71355798 2.532046 ] w\_new= [-0.2456042 0.71355784 2.53204636]

gradient= [-2.14262255e-05 -1.41783071e-05 3.56045326e-05] w = [-0.2456042 0.71355784 2.53204636] w\_new= [-0.24560441 0.7135577 2.53204671]

gradient= [-2.14018615e-05 -1.41628576e-05 3.55647190e-05] w = [-0.24560441 0.7135577 2.53204671] w\_new= [-0.24560463 0.71355756 2.53204707]

gradient= [-2.13775253e-05 -1.41474246e-05 3.55249500e-05] w = [-0.24560463 0.71355756 2.53204707] w\_new= [-0.24560484 0.71355742 2.53204742]

gradient= [-2.13532170e-05 -1.41320084e-05 3.54852254e-05] w = [-0.24560484 0.71355742 2.53204742] w\_new= [-0.24560505 0.71355728 2.53204778]

gradient= [-2.13289364e-05 -1.41166088e-05 3.54455452e-05] w = [-0.24560505 0.71355728 2.53204778] w\_new= [-0.24560527 0.71355714 2.53204813]

gradient= [-2.13046836e-05 -1.41012258e-05 3.54059094e-05] w = [-0.24560527 0.71355714 2.53204813] w\_new= [-0.24560548 0.71355699 2.53204849]

gradient= [-2.12804585e-05 -1.40858595e-05 3.53663179e-05] w = [-0.24560548 0.71355699 2.53204849] w\_new= [-0.24560569 0.71355685 2.53204884]

gradient= [-2.12562610e-05 -1.40705097e-05 3.53267707e-05] w = [-0.24560569 0.71355685 2.53204884] w\_new= [-0.24560591 0.71355671 2.53204919]

gradient= [-2.12320912e-05 -1.40551765e-05 3.52872677e-05] w = [-0.24560591 0.71355671 2.53204919] w\_new= [-0.24560612 0.71355657 2.53204955]

gradient= [-2.12079491e-05 -1.40398598e-05 3.52478089e-05] w = [-0.24560612 0.71355657 2.53204955] w\_new= [-0.24560633 0.71355643 2.5320499 ]

gradient= [-2.11838345e-05 -1.40245597e-05 3.52083942e-05] w = [-0.24560633 0.71355643 2.5320499 ] w\_new= [-0.24560654 0.71355629 2.53205025]

gradient= [-2.11597474e-05 -1.40092761e-05 3.51690235e-05] w = [-0.24560654 0.71355629 2.53205025] w\_new= [-0.24560675 0.71355615 2.5320506 ]

gradient= [-2.11356879e-05 -1.39940090e-05 3.51296969e-05] w = [-0.24560675 0.71355615 2.5320506 ] w\_new= [-0.24560697 0.71355601 2.53205095]

gradient= [-2.11116559e-05 -1.39787584e-05 3.50904143e-05] w = [-0.24560697 0.71355601 2.53205095] w\_new= [-0.24560718 0.71355587 2.53205131]

gradient= [-2.10876513e-05 -1.39635243e-05 3.50511756e-05] w = [-0.24560718 0.71355587 2.53205131] w\_new= [-0.24560739 0.71355573 2.53205166]

gradient= [-2.10636742e-05 -1.39483066e-05 3.50119808e-05] w = [-0.24560739 0.71355573 2.53205166] w\_new= [-0.2456076 0.71355559 2.53205201]

gradient= [-2.10397244e-05 -1.39331053e-05 3.49728297e-05] w = [-0.2456076 0.71355559 2.53205201] w\_new= [-0.24560781 0.71355545 2.53205236]

gradient= [-2.10158021e-05 -1.39179205e-05 3.49337225e-05] w = [-0.24560781 0.71355545 2.53205236] w\_new= [-0.24560802 0.71355531 2.5320527 ]

gradient= [-2.0991907e-05 -1.3902752e-05 3.4894659e-05] w = [-0.24560802 0.71355531 2.5320527 ] w\_new= [-0.24560823 0.71355517 2.53205305]

gradient= [-2.09680392e-05 -1.38875999e-05 3.48556392e-05] w = [-0.24560823 0.71355517 2.53205305] w\_new= [-0.24560844 0.71355504 2.5320534 ]

gradient= [-2.09441988e-05 -1.38724642e-05 3.48166630e-05] w = [-0.24560844 0.71355504 2.5320534 ] w\_new= [-0.24560865 0.7135549 2.53205375]

gradient= [-2.09203855e-05 -1.38573448e-05 3.47777304e-05] w = [-0.24560865 0.7135549 2.53205375] w\_new= [-0.24560886 0.71355476 2.5320541 ]

gradient= [-2.08965995e-05 -1.38422418e-05 3.47388413e-05] w = [-0.24560886 0.71355476 2.5320541 ] w\_new= [-0.24560907 0.71355462 2.53205445]

gradient= [-2.08728406e-05 -1.38271551e-05 3.46999957e-05] w = [-0.24560907 0.71355462 2.53205445] w\_new= [-0.24560927 0.71355448 2.53205479]

gradient= [-2.08491089e-05 -1.38120846e-05 3.46611935e-05] w = [-0.24560927 0.71355448 2.53205479] w\_new= [-0.24560948 0.71355434 2.53205514]

gradient= [-2.08254043e-05 -1.37970305e-05 3.46224347e-05] w = [-0.24560948 0.71355434 2.53205514] w\_new= [-0.24560969 0.71355421 2.53205549]

gradient= [-2.08017267e-05 -1.37819926e-05 3.45837193e-05] w = [-0.24560969 0.71355421 2.53205549] w\_new= [-0.2456099 0.71355407 2.53205583]

gradient= [-2.07780762e-05 -1.37669709e-05 3.45450471e-05] w = [-0.2456099 0.71355407 2.53205583] w\_new= [-0.24561011 0.71355393 2.53205618]

gradient= [-2.07544528e-05 -1.37519654e-05 3.45064182e-05] w = [-0.24561011 0.71355393 2.53205618] w\_new= [-0.24561031 0.71355379 2.53205652]

gradient= [-2.07308563e-05 -1.37369762e-05 3.44678325e-05] w = [-0.24561031 0.71355379 2.53205652] w\_new= [-0.24561052 0.71355366 2.53205687]

gradient= [-2.07072868e-05 -1.37220032e-05 3.44292899e-05] w = [-0.24561052 0.71355366 2.53205687] w\_new= [-0.24561073 0.71355352 2.53205721]

gradient= [-2.06837442e-05 -1.37070463e-05 3.43907905e-05] w = [-0.24561073 0.71355352 2.53205721] w\_new= [-0.24561094 0.71355338 2.53205755]

gradient= [-2.06602285e-05 -1.36921055e-05 3.43523340e-05] w = [-0.24561094 0.71355338 2.53205755] w\_new= [-0.24561114 0.71355324 2.5320579 ]

gradient= [-2.06367397e-05 -1.36771809e-05 3.43139206e-05] w = [-0.24561114 0.71355324 2.5320579 ] w\_new= [-0.24561135 0.71355311 2.53205824]

gradient= [-2.06132777e-05 -1.36622725e-05 3.42755501e-05] w = [-0.24561135 0.71355311 2.53205824] w\_new= [-0.24561156 0.71355297 2.53205858]

gradient= [-2.05898425e-05 -1.36473801e-05 3.42372226e-05] w = [-0.24561156 0.71355297 2.53205858] w\_new= [-0.24561176 0.71355283 2.53205893]

gradient= [-2.05664340e-05 -1.36325038e-05 3.41989378e-05] w = [-0.24561176 0.71355283 2.53205893] w\_new= [-0.24561197 0.7135527 2.53205927]

gradient= [-2.05430523e-05 -1.36176436e-05 3.41606959e-05] w = [-0.24561197 0.7135527 2.53205927] w\_new= [-0.24561217 0.71355256 2.53205961]

gradient= [-2.05196974e-05 -1.36027994e-05 3.41224968e-05] w = [-0.24561217 0.71355256 2.53205961] w\_new= [-0.24561238 0.71355243 2.53205995]

gradient= [-2.04963691e-05 -1.35879713e-05 3.40843404e-05] w = [-0.24561238 0.71355243 2.53205995] w\_new= [-0.24561258 0.71355229 2.53206029]

gradient= [-2.04730674e-05 -1.35731592e-05 3.40462266e-05] w = [-0.24561258 0.71355229 2.53206029] w\_new= [-0.24561279 0.71355215 2.53206063]

gradient= [-2.04497924e-05 -1.35583630e-05 3.40081554e-05] w = [-0.24561279 0.71355215 2.53206063] w\_new= [-0.24561299 0.71355202 2.53206097]

gradient= [-2.04265439e-05 -1.35435829e-05 3.39701269e-05] w = [-0.24561299 0.71355202 2.53206097] w\_new= [-0.2456132 0.71355188 2.53206131]

gradient= [-2.04033221e-05 -1.35288187e-05 3.39321408e-05] w = [-0.2456132 0.71355188 2.53206131] w\_new= [-0.2456134 0.71355175 2.53206165]

gradient= [-2.03801267e-05 -1.35140705e-05 3.38941972e-05] w = [-0.2456134 0.71355175 2.53206165] w\_new= [-0.2456136 0.71355161 2.53206199]

gradient= [-2.03569578e-05 -1.34993382e-05 3.38562960e-05] w = [-0.2456136 0.71355161 2.53206199] w\_new= [-0.24561381 0.71355148 2.53206233]

gradient= [-2.03338154e-05 -1.34846218e-05 3.38184373e-05] w = [-0.24561381 0.71355148 2.53206233] w\_new= [-0.24561401 0.71355134 2.53206267]

gradient= [-2.03106995e-05 -1.34699213e-05 3.37806208e-05] w = [-0.24561401 0.71355134 2.53206267] w\_new= [-0.24561421 0.71355121 2.53206301]

gradient= [-2.02876099e-05 -1.34552367e-05 3.37428466e-05] w = [-0.24561421 0.71355121 2.53206301] w\_new= [-0.24561442 0.71355107 2.53206334]

gradient= [-2.02645467e-05 -1.34405680e-05 3.37051147e-05] w = [-0.24561442 0.71355107 2.53206334] w\_new= [-0.24561462 0.71355094 2.53206368]

gradient= [-2.02415099e-05 -1.34259151e-05 3.36674250e-05] w = [-0.24561462 0.71355094 2.53206368] w\_new= [-0.24561482 0.71355081 2.53206402]

gradient= [-2.02184993e-05 -1.34112780e-05 3.36297774e-05] w = [-0.24561482 0.71355081 2.53206402] w\_new= [-0.24561502 0.71355067 2.53206435]

gradient= [-2.01955151e-05 -1.33966568e-05 3.35921719e-05] w = [-0.24561502 0.71355067 2.53206435] w\_new= [-0.24561523 0.71355054 2.53206469]

gradient= [-2.01725571e-05 -1.33820513e-05 3.35546084e-05] w = [-0.24561523 0.71355054 2.53206469] w\_new= [-0.24561543 0.7135504 2.53206502]

gradient= [-2.01496253e-05 -1.33674617e-05 3.35170870e-05] w = [-0.24561543 0.7135504 2.53206502] w\_new= [-0.24561563 0.71355027 2.53206536]

gradient= [-2.01267197e-05 -1.33528877e-05 3.34796075e-05] w = [-0.24561563 0.71355027 2.53206536] w\_new= [-0.24561583 0.71355014 2.53206569]

gradient= [-2.01038403e-05 -1.33383296e-05 3.34421699e-05] w = [-0.24561583 0.71355014 2.53206569] w\_new= [-0.24561603 0.71355 2.53206603]

gradient= [-2.00809870e-05 -1.33237871e-05 3.34047742e-05] w = [-0.24561603 0.71355 2.53206603] w\_new= [-0.24561623 0.71354987 2.53206636]

gradient= [-2.00581599e-05 -1.33092604e-05 3.33674202e-05] w = [-0.24561623 0.71354987 2.53206636] w\_new= [-0.24561643 0.71354974 2.5320667 ]

gradient= [-2.00353588e-05 -1.32947493e-05 3.33301081e-05] w = [-0.24561643 0.71354974 2.5320667 ] w\_new= [-0.24561663 0.7135496 2.53206703]

gradient= [-2.00125837e-05 -1.32802540e-05 3.32928377e-05] w = [-0.24561663 0.7135496 2.53206703] w\_new= [-0.24561683 0.71354947 2.53206736]

gradient= [-1.99898346e-05 -1.32657743e-05 3.32556089e-05] w = [-0.24561683 0.71354947 2.53206736] w\_new= [-0.24561703 0.71354934 2.5320677 ]

gradient= [-1.99671116e-05 -1.32513102e-05 3.32184218e-05] w = [-0.24561703 0.71354934 2.5320677 ] w\_new= [-0.24561723 0.71354921 2.53206803]

gradient= [-1.99444144e-05 -1.32368618e-05 3.31812763e-05] w = [-0.24561723 0.71354921 2.53206803] w\_new= [-0.24561743 0.71354907 2.53206836]

gradient= [-1.99217433e-05 -1.32224290e-05 3.31441722e-05] w = [-0.24561743 0.71354907 2.53206836] w\_new= [-0.24561763 0.71354894 2.53206869]

gradient= [-1.98990979e-05 -1.32080118e-05 3.31071097e-05] w = [-0.24561763 0.71354894 2.53206869] w\_new= [-0.24561783 0.71354881 2.53206902]

gradient= [-1.98764785e-05 -1.31936101e-05 3.30700886e-05] w = [-0.24561783 0.71354881 2.53206902] w\_new= [-0.24561803 0.71354868 2.53206935]

gradient= [-1.98538849e-05 -1.31792240e-05 3.30331090e-05] w = [-0.24561803 0.71354868 2.53206935] w\_new= [-0.24561823 0.71354855 2.53206968]

gradient= [-1.98313171e-05 -1.31648535e-05 3.29961706e-05] w = [-0.24561823 0.71354855 2.53206968] w\_new= [-0.24561843 0.71354841 2.53207001]

gradient= [-1.98087751e-05 -1.31504985e-05 3.29592736e-05] w = [-0.24561843 0.71354841 2.53207001] w\_new= [-0.24561862 0.71354828 2.53207034]

gradient= [-1.97862588e-05 -1.31361590e-05 3.29224178e-05] w = [-0.24561862 0.71354828 2.53207034] w\_new= [-0.24561882 0.71354815 2.53207067]

gradient= [-1.97637682e-05 -1.31218350e-05 3.28856032e-05] w = [-0.24561882 0.71354815 2.53207067] w\_new= [-0.24561902 0.71354802 2.532071 ]

gradient= [-1.97413034e-05 -1.31075265e-05 3.28488298e-05] w = [-0.24561902 0.71354802 2.532071 ] w\_new= [-0.24561922 0.71354789 2.53207133]

gradient= [-1.97188641e-05 -1.30932334e-05 3.28120975e-05] w = [-0.24561922 0.71354789 2.53207133] w\_new= [-0.24561941 0.71354776 2.53207166]

gradient= [-1.96964505e-05 -1.30789558e-05 3.27754063e-05] w = [-0.24561941 0.71354776 2.53207166] w\_new= [-0.24561961 0.71354763 2.53207198]

gradient= [-1.96740625e-05 -1.30646936e-05 3.27387561e-05] w = [-0.24561961 0.71354763 2.53207198] w\_new= [-0.24561981 0.7135475 2.53207231]

gradient= [-1.96517001e-05 -1.30504468e-05 3.27021469e-05] w = [-0.24561981 0.7135475 2.53207231] w\_new= [-0.24562 0.71354737 2.53207264]

gradient= [-1.96293632e-05 -1.30362155e-05 3.26655787e-05] w = [-0.24562 0.71354737 2.53207264] w\_new= [-0.2456202 0.71354723 2.53207297]

gradient= [-1.96070518e-05 -1.30219995e-05 3.26290513e-05] w = [-0.2456202 0.71354723 2.53207297] w\_new= [-0.2456204 0.7135471 2.53207329]

gradient= [-1.95847659e-05 -1.30077988e-05 3.25925647e-05] w = [-0.2456204 0.7135471 2.53207329] w\_new= [-0.24562059 0.71354697 2.53207362]

gradient= [-1.95625055e-05 -1.29936135e-05 3.25561190e-05] w = [-0.24562059 0.71354697 2.53207362] w\_new= [-0.24562079 0.71354684 2.53207394]

gradient= [-1.95402704e-05 -1.29794436e-05 3.25197140e-05] w = [-0.24562079 0.71354684 2.53207394] w\_new= [-0.24562098 0.71354671 2.53207427]

gradient= [-1.95180608e-05 -1.29652889e-05 3.24833497e-05] w = [-0.24562098 0.71354671 2.53207427] w\_new= [-0.24562118 0.71354659 2.53207459]

gradient= [-1.94958765e-05 -1.29511496e-05 3.24470261e-05] w = [-0.24562118 0.71354659 2.53207459] w\_new= [-0.24562137 0.71354646 2.53207492]

gradient= [-1.94737176e-05 -1.29370255e-05 3.24107431e-05] w = [-0.24562137 0.71354646 2.53207492] w\_new= [-0.24562157 0.71354633 2.53207524]

gradient= [-1.94515839e-05 -1.29229167e-05 3.23745006e-05] w = [-0.24562157 0.71354633 2.53207524] w\_new= [-0.24562176 0.7135462 2.53207557]

gradient= [-1.94294756e-05 -1.29088232e-05 3.23382987e-05] w = [-0.24562176 0.7135462 2.53207557] w\_new= [-0.24562196 0.71354607 2.53207589]

gradient= [-1.94073925e-05 -1.28947448e-05 3.23021373e-05] w = [-0.24562196 0.71354607 2.53207589] w\_new= [-0.24562215 0.71354594 2.53207621]

gradient= [-1.93853346e-05 -1.28806817e-05 3.22660163e-05] w = [-0.24562215 0.71354594 2.53207621] w\_new= [-0.24562235 0.71354581 2.53207653]

gradient= [-1.93633018e-05 -1.28666338e-05 3.22299357e-05] w = [-0.24562235 0.71354581 2.53207653] w\_new= [-0.24562254 0.71354568 2.53207686]

gradient= [-1.93412943e-05 -1.28526011e-05 3.21938954e-05] w = [-0.24562254 0.71354568 2.53207686] w\_new= [-0.24562273 0.71354555 2.53207718]

gradient= [-1.93193119e-05 -1.28385835e-05 3.21578954e-05] w = [-0.24562273 0.71354555 2.53207718] w\_new= [-0.24562293 0.71354542 2.5320775 ]

gradient= [-1.92973546e-05 -1.28245811e-05 3.21219357e-05] w = [-0.24562293 0.71354542 2.5320775 ] w\_new= [-0.24562312 0.7135453 2.53207782]

gradient= [-1.92754223e-05 -1.28105939e-05 3.20860162e-05] w = [-0.24562312 0.7135453 2.53207782] w\_new= [-0.24562331 0.71354517 2.53207814]

gradient= [-1.92535151e-05 -1.27966217e-05 3.20501368e-05] w = [-0.24562331 0.71354517 2.53207814] w\_new= [-0.2456235 0.71354504 2.53207846]

gradient= [-1.92316329e-05 -1.27826647e-05 3.20142976e-05] w = [-0.2456235 0.71354504 2.53207846] w\_new= [-0.2456237 0.71354491 2.53207878]

gradient= [-1.92097757e-05 -1.27687227e-05 3.19784985e-05] w = [-0.2456237 0.71354491 2.53207878] w\_new= [-0.24562389 0.71354478 2.5320791 ]

gradient= [-1.91879435e-05 -1.27547958e-05 3.19427393e-05] w = [-0.24562389 0.71354478 2.5320791 ] w\_new= [-0.24562408 0.71354466 2.53207942]

gradient= [-1.91661362e-05 -1.27408840e-05 3.19070202e-05] w = [-0.24562408 0.71354466 2.53207942] w\_new= [-0.24562427 0.71354453 2.53207974]

gradient= [-1.91443538e-05 -1.27269872e-05 3.18713410e-05] w = [-0.24562427 0.71354453 2.53207974] w\_new= [-0.24562446 0.7135444 2.53208006]

gradient= [-1.91225962e-05 -1.27131054e-05 3.18357017e-05] w = [-0.24562446 0.7135444 2.53208006] w\_new= [-0.24562465 0.71354428 2.53208038]

gradient= [-1.91008635e-05 -1.26992387e-05 3.18001022e-05] w = [-0.24562465 0.71354428 2.53208038] w\_new= [-0.24562485 0.71354415 2.5320807 ]

gradient= [-1.90791557e-05 -1.26853869e-05 3.17645425e-05] w = [-0.24562485 0.71354415 2.5320807 ] w\_new= [-0.24562504 0.71354402 2.53208101]

gradient= [-1.90574726e-05 -1.26715501e-05 3.17290227e-05] w = [-0.24562504 0.71354402 2.53208101] w\_new= [-0.24562523 0.7135439 2.53208133]

gradient= [-1.90358142e-05 -1.26577283e-05 3.16935425e-05] w = [-0.24562523 0.7135439 2.53208133] w\_new= [-0.24562542 0.71354377 2.53208165]

gradient= [-1.90141806e-05 -1.26439214e-05 3.16581020e-05] w = [-0.24562542 0.71354377 2.53208165] w\_new= [-0.24562561 0.71354364 2.53208197]

gradient= [-1.89925717e-05 -1.26301294e-05 3.16227011e-05] w = [-0.24562561 0.71354364 2.53208197] w\_new= [-0.2456258 0.71354352 2.53208228]

gradient= [-1.89709875e-05 -1.26163523e-05 3.15873398e-05] w = [-0.2456258 0.71354352 2.53208228] w\_new= [-0.24562599 0.71354339 2.5320826 ]

gradient= [-1.89494279e-05 -1.26025901e-05 3.15520180e-05] w = [-0.24562599 0.71354339 2.5320826 ] w\_new= [-0.24562618 0.71354326 2.53208291]

gradient= [-1.89278929e-05 -1.25888429e-05 3.15167358e-05] w = [-0.24562618 0.71354326 2.53208291] w\_new= [-0.24562637 0.71354314 2.53208323]

gradient= [-1.89063825e-05 -1.25751104e-05 3.14814930e-05] w = [-0.24562637 0.71354314 2.53208323] w\_new= [-0.24562655 0.71354301 2.53208354]

gradient= [-1.88848967e-05 -1.25613928e-05 3.14462896e-05] w = [-0.24562655 0.71354301 2.53208354] w\_new= [-0.24562674 0.71354289 2.53208386]

gradient= [-1.88634354e-05 -1.25476901e-05 3.14111255e-05] w = [-0.24562674 0.71354289 2.53208386] w\_new= [-0.24562693 0.71354276 2.53208417]

gradient= [-1.88419986e-05 -1.25340022e-05 3.13760008e-05] w = [-0.24562693 0.71354276 2.53208417] w\_new= [-0.24562712 0.71354264 2.53208449]

gradient= [-1.88205863e-05 -1.25203290e-05 3.13409153e-05] w = [-0.24562712 0.71354264 2.53208449] w\_new= [-0.24562731 0.71354251 2.5320848 ]

gradient= [-1.87991984e-05 -1.25066707e-05 3.13058691e-05] w = [-0.24562731 0.71354251 2.5320848 ] w\_new= [-0.2456275 0.71354239 2.53208511]

gradient= [-1.87778350e-05 -1.24930271e-05 3.12708621e-05] w = [-0.2456275 0.71354239 2.53208511] w\_new= [-0.24562768 0.71354226 2.53208542]

gradient= [-1.87564959e-05 -1.24793983e-05 3.12358942e-05] w = [-0.24562768 0.71354226 2.53208542] w\_new= [-0.24562787 0.71354214 2.53208574]

gradient= [-1.87351812e-05 -1.24657842e-05 3.12009654e-05] w = [-0.24562787 0.71354214 2.53208574] w\_new= [-0.24562806 0.71354201 2.53208605]

gradient= [-1.87138909e-05 -1.24521848e-05 3.11660757e-05] w = [-0.24562806 0.71354201 2.53208605] w\_new= [-0.24562825 0.71354189 2.53208636]

gradient= [-1.86926248e-05 -1.24386001e-05 3.11312250e-05] w = [-0.24562825 0.71354189 2.53208636] w\_new= [-0.24562843 0.71354176 2.53208667]

gradient= [-1.86713831e-05 -1.24250301e-05 3.10964132e-05] w = [-0.24562843 0.71354176 2.53208667] w\_new= [-0.24562862 0.71354164 2.53208698]

gradient= [-1.86501655e-05 -1.24114748e-05 3.10616404e-05] w = [-0.24562862 0.71354164 2.53208698] w\_new= [-0.24562881 0.71354151 2.53208729]

gradient= [-1.86289722e-05 -1.23979342e-05 3.10269064e-05] w = [-0.24562881 0.71354151 2.53208729] w\_new= [-0.24562899 0.71354139 2.5320876 ]

gradient= [-1.86078031e-05 -1.23844082e-05 3.09922113e-05] w = [-0.24562899 0.71354139 2.5320876 ] w\_new= [-0.24562918 0.71354127 2.53208791]

gradient= [-1.85866582e-05 -1.23708968e-05 3.09575550e-05] w = [-0.24562918 0.71354127 2.53208791] w\_new= [-0.24562937 0.71354114 2.53208822]

gradient= [-1.85655374e-05 -1.23574000e-05 3.09229374e-05] w = [-0.24562937 0.71354114 2.53208822] w\_new= [-0.24562955 0.71354102 2.53208853]

gradient= [-1.85444407e-05 -1.23439179e-05 3.08883586e-05] w = [-0.24562955 0.71354102 2.53208853] w\_new= [-0.24562974 0.71354089 2.53208884]

gradient= [-1.85233681e-05 -1.23304503e-05 3.08538184e-05] w = [-0.24562974 0.71354089 2.53208884] w\_new= [-0.24562992 0.71354077 2.53208915]

gradient= [-1.85023196e-05 -1.23169972e-05 3.08193168e-05] w = [-0.24562992 0.71354077 2.53208915] w\_new= [-0.24563011 0.71354065 2.53208946]

gradient= [-1.84812951e-05 -1.23035587e-05 3.07848538e-05] w = [-0.24563011 0.71354065 2.53208946] w\_new= [-0.24563029 0.71354053 2.53208977]

gradient= [-1.84602945e-05 -1.22901348e-05 3.07504293e-05] w = [-0.24563029 0.71354053 2.53208977] w\_new= [-0.24563048 0.7135404 2.53209007]

gradient= [-1.84393180e-05 -1.22767254e-05 3.07160434e-05] w = [-0.24563048 0.7135404 2.53209007] w\_new= [-0.24563066 0.71354028 2.53209038]

gradient= [-1.84183654e-05 -1.22633304e-05 3.06816959e-05] w = [-0.24563066 0.71354028 2.53209038] w\_new= [-0.24563084 0.71354016 2.53209069]

gradient= [-1.83974367e-05 -1.22499500e-05 3.06473867e-05] w = [-0.24563084 0.71354016 2.53209069] w\_new= [-0.24563103 0.71354003 2.53209099]

gradient= [-1.8376532e-05 -1.2236584e-05 3.0613116e-05] w = [-0.24563103 0.71354003 2.53209099] w\_new= [-0.24563121 0.71353991 2.5320913 ]

gradient= [-1.83556510e-05 -1.22232325e-05 3.05788835e-05] w = [-0.24563121 0.71353991 2.5320913 ] w\_new= [-0.2456314 0.71353979 2.53209161]

gradient= [-1.83347940e-05 -1.22098954e-05 3.05446894e-05] w = [-0.2456314 0.71353979 2.53209161] w\_new= [-0.24563158 0.71353967 2.53209191]

gradient= [-1.83139607e-05 -1.21965728e-05 3.05105335e-05] w = [-0.24563158 0.71353967 2.53209191] w\_new= [-0.24563176 0.71353955 2.53209222]

gradient= [-1.82931512e-05 -1.21832645e-05 3.04764157e-05] w = [-0.24563176 0.71353955 2.53209222] w\_new= [-0.24563195 0.71353942 2.53209252]

gradient= [-1.82723655e-05 -1.21699707e-05 3.04423361e-05] w = [-0.24563195 0.71353942 2.53209252] w\_new= [-0.24563213 0.7135393 2.53209283]

gradient= [-1.82516035e-05 -1.21566912e-05 3.04082947e-05] w = [-0.24563213 0.7135393 2.53209283] w\_new= [-0.24563231 0.71353918 2.53209313]

gradient= [-1.82308652e-05 -1.21434261e-05 3.03742913e-05] w = [-0.24563231 0.71353918 2.53209313] w\_new= [-0.24563249 0.71353906 2.53209343]

gradient= [-1.82101505e-05 -1.21301753e-05 3.03403259e-05] w = [-0.24563249 0.71353906 2.53209343] w\_new= [-0.24563267 0.71353894 2.53209374]

gradient= [-1.81894595e-05 -1.21169389e-05 3.03063984e-05] w = [-0.24563267 0.71353894 2.53209374] w\_new= [-0.24563286 0.71353882 2.53209404]

gradient= [-1.81687922e-05 -1.21037168e-05 3.02725090e-05] w = [-0.24563286 0.71353882 2.53209404] w\_new= [-0.24563304 0.7135387 2.53209434]

gradient= [-1.81481484e-05 -1.20905090e-05 3.02386574e-05] w = [-0.24563304 0.7135387 2.53209434] w\_new= [-0.24563322 0.71353858 2.53209464]

gradient= [-1.81275282e-05 -1.20773155e-05 3.02048436e-05] w = [-0.24563322 0.71353858 2.53209464] w\_new= [-0.2456334 0.71353845 2.53209495]

gradient= [-1.81069315e-05 -1.20641362e-05 3.01710677e-05] w = [-0.2456334 0.71353845 2.53209495] w\_new= [-0.24563358 0.71353833 2.53209525]

gradient= [-1.80863583e-05 -1.20509712e-05 3.01373295e-05] w = [-0.24563358 0.71353833 2.53209525] w\_new= [-0.24563376 0.71353821 2.53209555]

gradient= [-1.80658086e-05 -1.20378205e-05 3.01036291e-05] w = [-0.24563376 0.71353821 2.53209555] w\_new= [-0.24563394 0.71353809 2.53209585]

gradient= [-1.80452824e-05 -1.20246839e-05 3.00699664e-05] w = [-0.24563394 0.71353809 2.53209585] w\_new= [-0.24563412 0.71353797 2.53209615]

gradient= [-1.80247796e-05 -1.20115616e-05 3.00363412e-05] w = [-0.24563412 0.71353797 2.53209615] w\_new= [-0.2456343 0.71353785 2.53209645]

gradient= [-1.80043002e-05 -1.19984535e-05 3.00027537e-05] w = [-0.2456343 0.71353785 2.53209645] w\_new= [-0.24563448 0.71353773 2.53209675]

gradient= [-1.79838442e-05 -1.19853596e-05 2.99692038e-05] w = [-0.24563448 0.71353773 2.53209675] w\_new= [-0.24563466 0.71353761 2.53209705]

gradient= [-1.79634115e-05 -1.19722798e-05 2.99356913e-05] w = [-0.24563466 0.71353761 2.53209705] w\_new= [-0.24563484 0.71353749 2.53209735]

gradient= [-1.79430022e-05 -1.19592142e-05 2.99022163e-05] w = [-0.24563484 0.71353749 2.53209735] w\_new= [-0.24563502 0.71353737 2.53209765]

gradient= [-1.79226161e-05 -1.19461627e-05 2.98687788e-05] w = [-0.24563502 0.71353737 2.53209765] w\_new= [-0.2456352 0.71353725 2.53209795]

gradient= [-1.79022533e-05 -1.19331253e-05 2.98353786e-05] w = [-0.2456352 0.71353725 2.53209795] w\_new= [-0.24563538 0.71353713 2.53209825]

gradient= [-1.78819138e-05 -1.19201020e-05 2.98020158e-05] w = [-0.24563538 0.71353713 2.53209825] w\_new= [-0.24563556 0.71353702 2.53209855]

gradient= [-1.78615975e-05 -1.19070928e-05 2.97686903e-05] w = [-0.24563556 0.71353702 2.53209855] w\_new= [-0.24563574 0.7135369 2.53209884]

gradient= [-1.78413043e-05 -1.18940977e-05 2.97354021e-05] w = [-0.24563574 0.7135369 2.53209884] w\_new= [-0.24563592 0.71353678 2.53209914]

gradient= [-1.78210343e-05 -1.18811167e-05 2.97021510e-05] w = [-0.24563592 0.71353678 2.53209914] w\_new= [-0.2456361 0.71353666 2.53209944]

gradient= [-1.78007875e-05 -1.18681497e-05 2.96689372e-05] w = [-0.2456361 0.71353666 2.53209944] w\_new= [-0.24563627 0.71353654 2.53209973]

gradient= [-1.77805638e-05 -1.18551967e-05 2.96357605e-05] w = [-0.24563627 0.71353654 2.53209973] w\_new= [-0.24563645 0.71353642 2.53210003]

gradient= [-1.77603631e-05 -1.18422577e-05 2.96026209e-05] w = [-0.24563645 0.71353642 2.53210003] w\_new= [-0.24563663 0.7135363 2.53210033]

gradient= [-1.77401855e-05 -1.18293328e-05 2.95695183e-05] w = [-0.24563663 0.7135363 2.53210033] w\_new= [-0.24563681 0.71353618 2.53210062]

gradient= [-1.77200310e-05 -1.18164218e-05 2.95364528e-05] w = [-0.24563681 0.71353618 2.53210062] w\_new= [-0.24563698 0.71353607 2.53210092]

gradient= [-1.76998994e-05 -1.18035248e-05 2.95034242e-05] w = [-0.24563698 0.71353607 2.53210092] w\_new= [-0.24563716 0.71353595 2.53210121]

gradient= [-1.76797908e-05 -1.17906417e-05 2.94704325e-05] w = [-0.24563716 0.71353595 2.53210121] w\_new= [-0.24563734 0.71353583 2.53210151]

gradient= [-1.76597052e-05 -1.17777726e-05 2.94374778e-05] w = [-0.24563734 0.71353583 2.53210151] w\_new= [-0.24563751 0.71353571 2.5321018 ]

gradient= [-1.76396424e-05 -1.17649174e-05 2.94045599e-05] w = [-0.24563751 0.71353571 2.5321018 ] w\_new= [-0.24563769 0.71353559 2.5321021 ]

gradient= [-1.76196026e-05 -1.17520762e-05 2.93716788e-05] w = [-0.24563769 0.71353559 2.5321021 ] w\_new= [-0.24563787 0.71353548 2.53210239]

gradient= [-1.75995857e-05 -1.17392488e-05 2.93388345e-05] w = [-0.24563787 0.71353548 2.53210239] w\_new= [-0.24563804 0.71353536 2.53210268]

gradient= [-1.75795916e-05 -1.17264353e-05 2.93060269e-05] w = [-0.24563804 0.71353536 2.53210268] w\_new= [-0.24563822 0.71353524 2.53210298]

gradient= [-1.75596203e-05 -1.17136356e-05 2.92732559e-05] w = [-0.24563822 0.71353524 2.53210298] w\_new= [-0.24563839 0.71353513 2.53210327]

gradient= [-1.75396718e-05 -1.17008499e-05 2.92405216e-05] w = [-0.24563839 0.71353513 2.53210327] w\_new= [-0.24563857 0.71353501 2.53210356]

gradient= [-1.75197461e-05 -1.16880779e-05 2.92078240e-05] w = [-0.24563857 0.71353501 2.53210356] w\_new= [-0.24563874 0.71353489 2.53210385]

gradient= [-1.74998431e-05 -1.16753198e-05 2.91751628e-05] w = [-0.24563874 0.71353489 2.53210385] w\_new= [-0.24563892 0.71353477 2.53210414]

gradient= [-1.74799628e-05 -1.16625754e-05 2.91425382e-05] w = [-0.24563892 0.71353477 2.53210414] w\_new= [-0.24563909 0.71353466 2.53210444]

gradient= [-1.74601052e-05 -1.16498449e-05 2.91099501e-05] w = [-0.24563909 0.71353466 2.53210444] w\_new= [-0.24563927 0.71353454 2.53210473]

gradient= [-1.74402703e-05 -1.16371281e-05 2.90773984e-05] w = [-0.24563927 0.71353454 2.53210473] w\_new= [-0.24563944 0.71353443 2.53210502]

gradient= [-1.74204580e-05 -1.16244252e-05 2.90448832e-05] w = [-0.24563944 0.71353443 2.53210502] w\_new= [-0.24563962 0.71353431 2.53210531]

gradient= [-1.74006683e-05 -1.16117359e-05 2.90124042e-05] w = [-0.24563962 0.71353431 2.53210531] w\_new= [-0.24563979 0.71353419 2.5321056 ]

gradient= [-1.73809012e-05 -1.15990604e-05 2.89799616e-05] w = [-0.24563979 0.71353419 2.5321056 ] w\_new= [-0.24563997 0.71353408 2.53210589]

gradient= [-1.73611567e-05 -1.15863986e-05 2.89475553e-05] w = [-0.24563997 0.71353408 2.53210589] w\_new= [-0.24564014 0.71353396 2.53210618]

gradient= [-1.73414347e-05 -1.15737505e-05 2.89151852e-05] w = [-0.24564014 0.71353396 2.53210618] w\_new= [-0.24564031 0.71353385 2.53210647]

gradient= [-1.73217352e-05 -1.15611161e-05 2.88828513e-05] w = [-0.24564031 0.71353385 2.53210647] w\_new= [-0.24564049 0.71353373 2.53210676]

gradient= [-1.73020582e-05 -1.15484953e-05 2.88505535e-05] w = [-0.24564049 0.71353373 2.53210676] w\_new= [-0.24564066 0.71353361 2.53210704]

gradient= [-1.72824036e-05 -1.15358883e-05 2.88182919e-05] w = [-0.24564066 0.71353361 2.53210704] w\_new= [-0.24564083 0.7135335 2.53210733]

gradient= [-1.72627715e-05 -1.15232948e-05 2.87860663e-05] w = [-0.24564083 0.7135335 2.53210733] w\_new= [-0.245641 0.71353338 2.53210762]

gradient= [-1.72431618e-05 -1.15107150e-05 2.87538768e-05] w = [-0.245641 0.71353338 2.53210762] w\_new= [-0.24564118 0.71353327 2.53210791]

gradient= [-1.72235744e-05 -1.14981488e-05 2.87217232e-05] w = [-0.24564118 0.71353327 2.53210791] w\_new= [-0.24564135 0.71353315 2.5321082 ]

gradient= [-1.72040094e-05 -1.14855963e-05 2.86896056e-05] w = [-0.24564135 0.71353315 2.5321082 ] w\_new= [-0.24564152 0.71353304 2.53210848]

gradient= [-1.71844667e-05 -1.14730573e-05 2.86575240e-05] w = [-0.24564152 0.71353304 2.53210848] w\_new= [-0.24564169 0.71353292 2.53210877]

gradient= [-1.71649463e-05 -1.14605318e-05 2.86254782e-05] w = [-0.24564169 0.71353292 2.53210877] w\_new= [-0.24564186 0.71353281 2.53210905]

gradient= [-1.71454482e-05 -1.14480200e-05 2.85934682e-05] w = [-0.24564186 0.71353281 2.53210905] w\_new= [-0.24564204 0.7135327 2.53210934]

gradient= [-1.71259724e-05 -1.14355216e-05 2.85614940e-05] w = [-0.24564204 0.7135327 2.53210934] w\_new= [-0.24564221 0.71353258 2.53210963]

gradient= [-1.71065188e-05 -1.14230368e-05 2.85295556e-05] w = [-0.24564221 0.71353258 2.53210963] w\_new= [-0.24564238 0.71353247 2.53210991]

gradient= [-1.70870873e-05 -1.14105655e-05 2.84976529e-05] w = [-0.24564238 0.71353247 2.53210991] w\_new= [-0.24564255 0.71353235 2.5321102 ]

gradient= [-1.70676781e-05 -1.13981077e-05 2.84657858e-05] w = [-0.24564255 0.71353235 2.5321102 ] w\_new= [-0.24564272 0.71353224 2.53211048]

gradient= [-1.70482909e-05 -1.13856634e-05 2.84339544e-05] w = [-0.24564272 0.71353224 2.53211048] w\_new= [-0.24564289 0.71353212 2.53211077]

gradient= [-1.70289260e-05 -1.13732326e-05 2.84021586e-05] w = [-0.24564289 0.71353212 2.53211077] w\_new= [-0.24564306 0.71353201 2.53211105]

gradient= [-1.70095831e-05 -1.13608152e-05 2.83703983e-05] w = [-0.24564306 0.71353201 2.53211105] w\_new= [-0.24564323 0.7135319 2.53211133]

gradient= [-1.69902622e-05 -1.13484113e-05 2.83386735e-05] w = [-0.24564323 0.7135319 2.53211133] w\_new= [-0.2456434 0.71353178 2.53211162]

gradient= [-1.69709635e-05 -1.13360208e-05 2.83069842e-05] w = [-0.2456434 0.71353178 2.53211162] w\_new= [-0.24564357 0.71353167 2.5321119 ]

gradient= [-1.69516867e-05 -1.13236437e-05 2.82753304e-05] w = [-0.24564357 0.71353167 2.5321119 ] w\_new= [-0.24564374 0.71353156 2.53211218]

gradient= [-1.69324319e-05 -1.13112800e-05 2.82437119e-05] w = [-0.24564374 0.71353156 2.53211218] w\_new= [-0.24564391 0.71353144 2.53211246]

gradient= [-1.69131991e-05 -1.12989297e-05 2.82121288e-05] w = [-0.24564391 0.71353144 2.53211246] w\_new= [-0.24564408 0.71353133 2.53211275]

gradient= [-1.68939883e-05 -1.12865927e-05 2.81805810e-05] w = [-0.24564408 0.71353133 2.53211275] w\_new= [-0.24564425 0.71353122 2.53211303]

gradient= [-1.68747994e-05 -1.12742691e-05 2.81490685e-05] w = [-0.24564425 0.71353122 2.53211303] w\_new= [-0.24564442 0.71353111 2.53211331]

gradient= [-1.68556323e-05 -1.12619589e-05 2.81175912e-05] w = [-0.24564442 0.71353111 2.53211331] w\_new= [-0.24564458 0.71353099 2.53211359]

gradient= [-1.68364872e-05 -1.12496620e-05 2.80861491e-05] w = [-0.24564458 0.71353099 2.53211359] w\_new= [-0.24564475 0.71353088 2.53211387]

gradient= [-1.68173639e-05 -1.12373784e-05 2.80547422e-05] w = [-0.24564475 0.71353088 2.53211387] w\_new= [-0.24564492 0.71353077 2.53211415]

gradient= [-1.67982623e-05 -1.12251081e-05 2.80233704e-05] w = [-0.24564492 0.71353077 2.53211415] w\_new= [-0.24564509 0.71353066 2.53211443]

gradient= [-1.67791826e-05 -1.12128510e-05 2.79920337e-05] w = [-0.24564509 0.71353066 2.53211443] w\_new= [-0.24564526 0.71353054 2.53211471]

gradient= [-1.67601247e-05 -1.12006073e-05 2.79607320e-05] w = [-0.24564526 0.71353054 2.53211471] w\_new= [-0.24564542 0.71353043 2.53211499]

gradient= [-1.67410885e-05 -1.11883768e-05 2.79294653e-05] w = [-0.24564542 0.71353043 2.53211499] w\_new= [-0.24564559 0.71353032 2.53211527]

gradient= [-1.67220740e-05 -1.11761595e-05 2.78982335e-05] w = [-0.24564559 0.71353032 2.53211527] w\_new= [-0.24564576 0.71353021 2.53211555]

gradient= [-1.67030812e-05 -1.11639555e-05 2.78670367e-05] w = [-0.24564576 0.71353021 2.53211555] w\_new= [-0.24564593 0.7135301 2.53211583]

gradient= [-1.66841101e-05 -1.11517647e-05 2.78358748e-05] w = [-0.24564593 0.7135301 2.53211583] w\_new= [-0.24564609 0.71352998 2.53211611]

gradient= [-1.66651607e-05 -1.11395871e-05 2.78047477e-05] w = [-0.24564609 0.71352998 2.53211611] w\_new= [-0.24564626 0.71352987 2.53211639]

gradient= [-1.66462328e-05 -1.11274226e-05 2.77736554e-05] w = [-0.24564626 0.71352987 2.53211639] w\_new= [-0.24564643 0.71352976 2.53211666]

gradient= [-1.66273266e-05 -1.11152714e-05 2.77425979e-05] w = [-0.24564643 0.71352976 2.53211666] w\_new= [-0.24564659 0.71352965 2.53211694]

gradient= [-1.66084419e-05 -1.11031333e-05 2.77115751e-05] w = [-0.24564659 0.71352965 2.53211694] w\_new= [-0.24564676 0.71352954 2.53211722]

gradient= [-1.65895787e-05 -1.10910083e-05 2.76805870e-05] w = [-0.24564676 0.71352954 2.53211722] w\_new= [-0.24564692 0.71352943 2.5321175 ]

gradient= [-1.65707371e-05 -1.10788965e-05 2.76496336e-05] w = [-0.24564692 0.71352943 2.5321175 ] w\_new= [-0.24564709 0.71352932 2.53211777]

gradient= [-1.65519170e-05 -1.10667977e-05 2.76187147e-05] w = [-0.24564709 0.71352932 2.53211777] w\_new= [-0.24564726 0.71352921 2.53211805]

gradient= [-1.65331183e-05 -1.10547121e-05 2.75878305e-05] w = [-0.24564726 0.71352921 2.53211805] w\_new= [-0.24564742 0.7135291 2.53211832]

gradient= [-1.65143411e-05 -1.10426396e-05 2.75569807e-05] w = [-0.24564742 0.7135291 2.53211832] w\_new= [-0.24564759 0.71352899 2.5321186 ]

gradient= [-1.64955853e-05 -1.10305801e-05 2.75261655e-05] w = [-0.24564759 0.71352899 2.5321186 ] w\_new= [-0.24564775 0.71352888 2.53211887]

gradient= [-1.64768510e-05 -1.10185337e-05 2.74953847e-05] w = [-0.24564775 0.71352888 2.53211887] w\_new= [-0.24564792 0.71352877 2.53211915]

gradient= [-1.64581379e-05 -1.10065004e-05 2.74646383e-05] w = [-0.24564792 0.71352877 2.53211915] w\_new= [-0.24564808 0.71352866 2.53211942]

gradient= [-1.64394463e-05 -1.09944800e-05 2.74339263e-05] w = [-0.24564808 0.71352866 2.53211942] w\_new= [-0.24564824 0.71352855 2.5321197 ]

gradient= [-1.64207759e-05 -1.09824727e-05 2.74032487e-05] w = [-0.24564824 0.71352855 2.5321197 ] w\_new= [-0.24564841 0.71352844 2.53211997]

gradient= [-1.64021269e-05 -1.09704784e-05 2.73726053e-05] w = [-0.24564841 0.71352844 2.53211997] w\_new= [-0.24564857 0.71352833 2.53212025]

gradient= [-1.63834991e-05 -1.09584971e-05 2.73419962e-05] w = [-0.24564857 0.71352833 2.53212025] w\_new= [-0.24564874 0.71352822 2.53212052]

gradient= [-1.63648926e-05 -1.09465288e-05 2.73114214e-05] w = [-0.24564874 0.71352822 2.53212052] w\_new= [-0.2456489 0.71352811 2.53212079]

gradient= [-1.63463073e-05 -1.09345734e-05 2.72808807e-05] w = [-0.2456489 0.71352811 2.53212079] w\_new= [-0.24564906 0.713528 2.53212107]

gradient= [-1.63277432e-05 -1.09226310e-05 2.72503742e-05] w = [-0.24564906 0.713528 2.53212107] w\_new= [-0.24564923 0.71352789 2.53212134]

gradient= [-1.63092003e-05 -1.09107015e-05 2.72199017e-05] w = [-0.24564923 0.71352789 2.53212134] w\_new= [-0.24564939 0.71352778 2.53212161]

gradient= [-1.62906785e-05 -1.08987849e-05 2.71894634e-05] w = [-0.24564939 0.71352778 2.53212161] w\_new= [-0.24564955 0.71352767 2.53212188]

gradient= [-1.62721779e-05 -1.08868812e-05 2.71590591e-05] w = [-0.24564955 0.71352767 2.53212188] w\_new= [-0.24564972 0.71352756 2.53212215]

gradient= [-1.62536984e-05 -1.08749904e-05 2.71286888e-05] w = [-0.24564972 0.71352756 2.53212215] w\_new= [-0.24564988 0.71352745 2.53212243]

gradient= [-1.62352399e-05 -1.08631125e-05 2.70983524e-05] w = [-0.24564988 0.71352745 2.53212243] w\_new= [-0.24565004 0.71352734 2.5321227 ]

gradient= [-1.62168025e-05 -1.08512475e-05 2.70680500e-05] w = [-0.24565004 0.71352734 2.5321227 ] w\_new= [-0.2456502 0.71352724 2.53212297]

gradient= [-1.61983862e-05 -1.08393953e-05 2.70377814e-05] w = [-0.2456502 0.71352724 2.53212297] w\_new= [-0.24565036 0.71352713 2.53212324]

gradient= [-1.61799908e-05 -1.08275559e-05 2.70075467e-05] w = [-0.24565036 0.71352713 2.53212324] w\_new= [-0.24565053 0.71352702 2.53212351]

gradient= [-1.61616164e-05 -1.08157294e-05 2.69773458e-05] w = [-0.24565053 0.71352702 2.53212351] w\_new= [-0.24565069 0.71352691 2.53212378]

gradient= [-1.61432630e-05 -1.08039157e-05 2.69471787e-05] w = [-0.24565069 0.71352691 2.53212378] w\_new= [-0.24565085 0.7135268 2.53212405]

gradient= [-1.61249306e-05 -1.07921147e-05 2.69170453e-05] w = [-0.24565085 0.7135268 2.53212405] w\_new= [-0.24565101 0.7135267 2.53212432]

gradient= [-1.61066190e-05 -1.07803266e-05 2.68869456e-05] w = [-0.24565101 0.7135267 2.53212432] w\_new= [-0.24565117 0.71352659 2.53212458]

gradient= [-1.60883283e-05 -1.07685512e-05 2.68568795e-05] w = [-0.24565117 0.71352659 2.53212458] w\_new= [-0.24565133 0.71352648 2.53212485]

gradient= [-1.60700585e-05 -1.07567886e-05 2.68268471e-05] w = [-0.24565133 0.71352648 2.53212485] w\_new= [-0.24565149 0.71352637 2.53212512]

gradient= [-1.60518095e-05 -1.07450387e-05 2.67968482e-05] w = [-0.24565149 0.71352637 2.53212512] w\_new= [-0.24565165 0.71352626 2.53212539]

gradient= [-1.60335814e-05 -1.07333016e-05 2.67668829e-05] w = [-0.24565165 0.71352626 2.53212539] w\_new= [-0.24565181 0.71352616 2.53212566]

gradient= [-1.60153740e-05 -1.07215771e-05 2.67369511e-05] w = [-0.24565181 0.71352616 2.53212566] w\_new= [-0.24565197 0.71352605 2.53212592]

gradient= [-1.59971874e-05 -1.07098654e-05 2.67070528e-05] w = [-0.24565197 0.71352605 2.53212592] w\_new= [-0.24565213 0.71352594 2.53212619]

gradient= [-1.59790216e-05 -1.06981663e-05 2.66771879e-05] w = [-0.24565213 0.71352594 2.53212619] w\_new= [-0.24565229 0.71352584 2.53212646]

gradient= [-1.59608764e-05 -1.06864799e-05 2.66473564e-05] w = [-0.24565229 0.71352584 2.53212646] w\_new= [-0.24565245 0.71352573 2.53212672]

gradient= [-1.59427520e-05 -1.06748062e-05 2.66175582e-05] w = [-0.24565245 0.71352573 2.53212672] w\_new= [-0.24565261 0.71352562 2.53212699]

gradient= [-1.59246482e-05 -1.06631451e-05 2.65877934e-05] w = [-0.24565261 0.71352562 2.53212699] w\_new= [-0.24565277 0.71352552 2.53212726]

gradient= [-1.59065651e-05 -1.06514967e-05 2.65580618e-05] w = [-0.24565277 0.71352552 2.53212726] w\_new= [-0.24565293 0.71352541 2.53212752]

gradient= [-1.58885026e-05 -1.06398609e-05 2.65283635e-05] w = [-0.24565293 0.71352541 2.53212752] w\_new= [-0.24565309 0.7135253 2.53212779]

gradient= [-1.58704607e-05 -1.06282376e-05 2.64986984e-05] w = [-0.24565309 0.7135253 2.53212779] w\_new= [-0.24565325 0.7135252 2.53212805]

gradient= [-1.58524394e-05 -1.06166270e-05 2.64690664e-05] w = [-0.24565325 0.7135252 2.53212805] w\_new= [-0.24565341 0.71352509 2.53212832]

gradient= [-1.58344387e-05 -1.06050290e-05 2.64394676e-05] w = [-0.24565341 0.71352509 2.53212832] w\_new= [-0.24565357 0.71352498 2.53212858]

gradient= [-1.58164585e-05 -1.05934435e-05 2.64099019e-05] w = [-0.24565357 0.71352498 2.53212858] w\_new= [-0.24565372 0.71352488 2.53212885]

gradient= [-1.57984987e-05 -1.05818705e-05 2.63803693e-05] w = [-0.24565372 0.71352488 2.53212885] w\_new= [-0.24565388 0.71352477 2.53212911]

gradient= [-1.57805595e-05 -1.05703101e-05 2.63508696e-05] w = [-0.24565388 0.71352477 2.53212911] w\_new= [-0.24565404 0.71352467 2.53212937]

gradient= [-1.57626407e-05 -1.05587623e-05 2.63214030e-05] w = [-0.24565404 0.71352467 2.53212937] w\_new= [-0.2456542 0.71352456 2.53212964]

gradient= [-1.57447424e-05 -1.05472269e-05 2.62919693e-05] w = [-0.2456542 0.71352456 2.53212964] w\_new= [-0.24565436 0.71352446 2.5321299 ]

gradient= [-1.57268645e-05 -1.05357040e-05 2.62625685e-05] w = [-0.24565436 0.71352446 2.5321299 ] w\_new= [-0.24565451 0.71352435 2.53213016]

gradient= [-1.57090069e-05 -1.05241937e-05 2.62332006e-05] w = [-0.24565451 0.71352435 2.53213016] w\_new= [-0.24565467 0.71352425 2.53213042]

gradient= [-1.56911698e-05 -1.05126958e-05 2.62038655e-05] w = [-0.24565467 0.71352425 2.53213042] w\_new= [-0.24565483 0.71352414 2.53213069]

gradient= [-1.56733530e-05 -1.05012103e-05 2.61745633e-05] w = [-0.24565483 0.71352414 2.53213069] w\_new= [-0.24565498 0.71352404 2.53213095]

gradient= [-1.56555565e-05 -1.04897373e-05 2.61452937e-05] w = [-0.24565498 0.71352404 2.53213095] w\_new= [-0.24565514 0.71352393 2.53213121]

gradient= [-1.56377803e-05 -1.04782767e-05 2.61160570e-05] w = [-0.24565514 0.71352393 2.53213121] w\_new= [-0.2456553 0.71352383 2.53213147]

gradient= [-1.56200243e-05 -1.04668286e-05 2.60868529e-05] w = [-0.2456553 0.71352383 2.53213147] w\_new= [-0.24565545 0.71352372 2.53213173]

gradient= [-1.56022886e-05 -1.04553928e-05 2.60576814e-05] w = [-0.24565545 0.71352372 2.53213173] w\_new= [-0.24565561 0.71352362 2.53213199]

gradient= [-1.55845732e-05 -1.04439694e-05 2.60285426e-05] w = [-0.24565561 0.71352362 2.53213199] w\_new= [-0.24565576 0.71352351 2.53213225]

gradient= [-1.55668779e-05 -1.04325584e-05 2.59994364e-05] w = [-0.24565576 0.71352351 2.53213225] w\_new= [-0.24565592 0.71352341 2.53213251]

gradient= [-1.55492029e-05 -1.04211598e-05 2.59703627e-05] w = [-0.24565592 0.71352341 2.53213251] w\_new= [-0.24565608 0.7135233 2.53213277]

gradient= [-1.55315480e-05 -1.04097735e-05 2.59413215e-05] w = [-0.24565608 0.7135233 2.53213277] w\_new= [-0.24565623 0.7135232 2.53213303]

gradient= [-1.55139132e-05 -1.03983996e-05 2.59123128e-05] w = [-0.24565623 0.7135232 2.53213303] w\_new= [-0.24565639 0.7135231 2.53213329]

gradient= [-1.54962985e-05 -1.03870380e-05 2.58833365e-05] w = [-0.24565639 0.7135231 2.53213329] w\_new= [-0.24565654 0.71352299 2.53213355]

gradient= [-1.54787039e-05 -1.03756887e-05 2.58543926e-05] w = [-0.24565654 0.71352299 2.53213355] w\_new= [-0.2456567 0.71352289 2.53213381]

gradient= [-1.54611294e-05 -1.03643517e-05 2.58254811e-05] w = [-0.2456567 0.71352289 2.53213381] w\_new= [-0.24565685 0.71352278 2.53213407]

gradient= [-1.54435749e-05 -1.03530270e-05 2.57966019e-05] w = [-0.24565685 0.71352278 2.53213407] w\_new= [-0.245657 0.71352268 2.53213432]

gradient= [-1.54260405e-05 -1.03417145e-05 2.57677550e-05] w = [-0.245657 0.71352268 2.53213432] w\_new= [-0.24565716 0.71352258 2.53213458]

gradient= [-1.54085260e-05 -1.03304144e-05 2.57389404e-05] w = [-0.24565716 0.71352258 2.53213458] w\_new= [-0.24565731 0.71352247 2.53213484]

gradient= [-1.53910315e-05 -1.03191264e-05 2.57101580e-05] w = [-0.24565731 0.71352247 2.53213484] w\_new= [-0.24565747 0.71352237 2.5321351 ]

gradient= [-1.53735570e-05 -1.03078507e-05 2.56814077e-05] w = [-0.24565747 0.71352237 2.5321351 ] w\_new= [-0.24565762 0.71352227 2.53213535]

gradient= [-1.53561024e-05 -1.02965872e-05 2.56526896e-05] w = [-0.24565762 0.71352227 2.53213535] w\_new= [-0.24565777 0.71352216 2.53213561]

gradient= [-1.53386677e-05 -1.02853359e-05 2.56240037e-05] w = [-0.24565777 0.71352216 2.53213561] w\_new= [-0.24565793 0.71352206 2.53213587]

gradient= [-1.53212529e-05 -1.02740969e-05 2.55953497e-05] w = [-0.24565793 0.71352206 2.53213587] w\_new= [-0.24565808 0.71352196 2.53213612]

gradient= [-1.53038579e-05 -1.02628699e-05 2.55667279e-05] w = [-0.24565808 0.71352196 2.53213612] w\_new= [-0.24565823 0.71352186 2.53213638]

gradient= [-1.52864828e-05 -1.02516552e-05 2.55381380e-05] w = [-0.24565823 0.71352186 2.53213638] w\_new= [-0.24565839 0.71352175 2.53213663]

gradient= [-1.52691275e-05 -1.02404526e-05 2.55095801e-05] w = [-0.24565839 0.71352175 2.53213663] w\_new= [-0.24565854 0.71352165 2.53213689]

gradient= [-1.52517920e-05 -1.02292622e-05 2.54810541e-05] w = [-0.24565854 0.71352165 2.53213689] w\_new= [-0.24565869 0.71352155 2.53213714]

gradient= [-1.52344762e-05 -1.02180839e-05 2.54525601e-05] w = [-0.24565869 0.71352155 2.53213714] w\_new= [-0.24565884 0.71352145 2.5321374 ]

gradient= [-1.52171802e-05 -1.02069177e-05 2.54240979e-05] w = [-0.24565884 0.71352145 2.5321374 ] w\_new= [-0.245659 0.71352134 2.53213765]

gradient= [-1.51999039e-05 -1.01957636e-05 2.53956675e-05] w = [-0.245659 0.71352134 2.53213765] w\_new= [-0.24565915 0.71352124 2.53213791]

gradient= [-1.51826473e-05 -1.01846215e-05 2.53672689e-05] w = [-0.24565915 0.71352124 2.53213791] w\_new= [-0.2456593 0.71352114 2.53213816]

gradient= [-1.51654104e-05 -1.01734916e-05 2.53389020e-05] w = [-0.2456593 0.71352114 2.53213816] w\_new= [-0.24565945 0.71352104 2.53213841]

gradient= [-1.51481932e-05 -1.01623737e-05 2.53105669e-05] w = [-0.24565945 0.71352104 2.53213841] w\_new= [-0.2456596 0.71352094 2.53213867]

gradient= [-1.51309956e-05 -1.01512679e-05 2.52822635e-05] w = [-0.2456596 0.71352094 2.53213867] w\_new= [-0.24565975 0.71352084 2.53213892]

gradient= [-1.51138176e-05 -1.01401741e-05 2.52539917e-05] w = [-0.24565975 0.71352084 2.53213892] w\_new= [-0.24565991 0.71352073 2.53213917]

gradient= [-1.50966591e-05 -1.01290924e-05 2.52257515e-05] w = [-0.24565991 0.71352073 2.53213917] w\_new= [-0.24566006 0.71352063 2.53213942]

gradient= [-1.50795203e-05 -1.01180226e-05 2.51975429e-05] w = [-0.24566006 0.71352063 2.53213942] w\_new= [-0.24566021 0.71352053 2.53213968]

gradient= [-1.50624010e-05 -1.01069649e-05 2.51693658e-05] w = [-0.24566021 0.71352053 2.53213968] w\_new= [-0.24566036 0.71352043 2.53213993]

gradient= [-1.50453012e-05 -1.00959191e-05 2.51412203e-05] w = [-0.24566036 0.71352043 2.53213993] w\_new= [-0.24566051 0.71352033 2.53214018]

gradient= [-1.50282209e-05 -1.00848853e-05 2.51131062e-05] w = [-0.24566051 0.71352033 2.53214018] w\_new= [-0.24566066 0.71352023 2.53214043]

gradient= [-1.50111600e-05 -1.00738635e-05 2.50850235e-05] w = [-0.24566066 0.71352023 2.53214043] w\_new= [-0.24566081 0.71352013 2.53214068]

gradient= [-1.49941187e-05 -1.00628536e-05 2.50569723e-05] w = [-0.24566081 0.71352013 2.53214068] w\_new= [-0.24566096 0.71352003 2.53214093]

gradient= [-1.49770967e-05 -1.00518557e-05 2.50289524e-05] w = [-0.24566096 0.71352003 2.53214093] w\_new= [-0.24566111 0.71351993 2.53214118]

gradient= [-1.49600942e-05 -1.00408696e-05 2.50009638e-05] w = [-0.24566111 0.71351993 2.53214118] w\_new= [-0.24566126 0.71351983 2.53214143]

gradient= [-1.49431111e-05 -1.00298955e-05 2.49730066e-05] w = [-0.24566126 0.71351983 2.53214143] w\_new= [-0.24566141 0.71351973 2.53214168]

gradient= [-1.49261473e-05 -1.00189333e-05 2.49450806e-05] w = [-0.24566141 0.71351973 2.53214168] w\_new= [-0.24566156 0.71351963 2.53214193]

gradient= [-1.49092028e-05 -1.00079830e-05 2.49171858e-05] w = [-0.24566156 0.71351963 2.53214193] w\_new= [-0.24566171 0.71351953 2.53214218]

gradient= [-1.48922777e-05 -9.99704448e-06 2.48893222e-05] w = [-0.24566171 0.71351953 2.53214218] w\_new= [-0.24566185 0.71351943 2.53214243]

gradient= [-1.48753719e-05 -9.98611787e-06 2.48614898e-05] w = [-0.24566185 0.71351943 2.53214243] w\_new= [-0.245662 0.71351933 2.53214268]

gradient= [-1.48584853e-05 -9.97520311e-06 2.48336885e-05] w = [-0.245662 0.71351933 2.53214268] w\_new= [-0.24566215 0.71351923 2.53214293]

gradient= [-1.48416181e-05 -9.96430018e-06 2.48059182e-05] w = [-0.24566215 0.71351923 2.53214293] w\_new= [-0.2456623 0.71351913 2.53214317]

gradient= [-1.48247700e-05 -9.95340907e-06 2.47781791e-05] w = [-0.2456623 0.71351913 2.53214317] w\_new= [-0.24566245 0.71351903 2.53214342]

gradient= [-1.48079411e-05 -9.94252976e-06 2.47504709e-05] w = [-0.24566245 0.71351903 2.53214342] w\_new= [-0.2456626 0.71351893 2.53214367]

gradient= [-1.47911315e-05 -9.93166225e-06 2.47227937e-05] w = [-0.2456626 0.71351893 2.53214367] w\_new= [-0.24566274 0.71351883 2.53214392]

gradient= [-1.47743410e-05 -9.92080652e-06 2.46951475e-05] w = [-0.24566274 0.71351883 2.53214392] w\_new= [-0.24566289 0.71351873 2.53214416]

gradient= [-1.47575696e-05 -9.90996257e-06 2.46675322e-05] w = [-0.24566289 0.71351873 2.53214416] w\_new= [-0.24566304 0.71351863 2.53214441]

gradient= [-1.47408174e-05 -9.89913036e-06 2.46399477e-05] w = [-0.24566304 0.71351863 2.53214441] w\_new= [-0.24566319 0.71351853 2.53214466]

gradient= [-1.47240842e-05 -9.88830991e-06 2.46123941e-05] w = [-0.24566319 0.71351853 2.53214466] w\_new= [-0.24566333 0.71351843 2.5321449 ]

gradient= [-1.47073702e-05 -9.87750118e-06 2.45848714e-05] w = [-0.24566333 0.71351843 2.5321449 ] w\_new= [-0.24566348 0.71351833 2.53214515]

gradient= [-1.46906752e-05 -9.86670417e-06 2.45573793e-05] w = [-0.24566348 0.71351833 2.53214515] w\_new= [-0.24566363 0.71351824 2.53214539]

gradient= [-1.46739992e-05 -9.85591887e-06 2.45299181e-05] w = [-0.24566363 0.71351824 2.53214539] w\_new= [-0.24566378 0.71351814 2.53214564]

gradient= [-1.46573422e-05 -9.84514526e-06 2.45024875e-05] w = [-0.24566378 0.71351814 2.53214564] w\_new= [-0.24566392 0.71351804 2.53214588]

gradient= [-1.46407043e-05 -9.83438334e-06 2.44750876e-05] w = [-0.24566392 0.71351804 2.53214588] w\_new= [-0.24566407 0.71351794 2.53214613]

gradient= [-1.46240853e-05 -9.82363308e-06 2.44477183e-05] w = [-0.24566407 0.71351794 2.53214613] w\_new= [-0.24566421 0.71351784 2.53214637]

gradient= [-1.46074852e-05 -9.81289448e-06 2.44203797e-05] w = [-0.24566421 0.71351784 2.53214637] w\_new= [-0.24566436 0.71351774 2.53214662]

gradient= [-1.45909041e-05 -9.80216752e-06 2.43930716e-05] w = [-0.24566436 0.71351774 2.53214662] w\_new= [-0.24566451 0.71351765 2.53214686]

gradient= [-1.45743419e-05 -9.79145220e-06 2.43657940e-05] w = [-0.24566451 0.71351765 2.53214686] w\_new= [-0.24566465 0.71351755 2.5321471 ]

gradient= [-1.45577985e-05 -9.78074849e-06 2.43385470e-05] w = [-0.24566465 0.71351755 2.5321471 ] w\_new= [-0.2456648 0.71351745 2.53214735]

gradient= [-1.45412740e-05 -9.77005639e-06 2.43113304e-05] w = [-0.2456648 0.71351745 2.53214735] w\_new= [-0.24566494 0.71351735 2.53214759]

gradient= [-1.45247684e-05 -9.75937588e-06 2.42841443e-05] w = [-0.24566494 0.71351735 2.53214759] w\_new= [-0.24566509 0.71351725 2.53214783]

gradient= [-1.45082815e-05 -9.74870696e-06 2.42569885e-05] w = [-0.24566509 0.71351725 2.53214783] w\_new= [-0.24566523 0.71351716 2.53214808]

gradient= [-1.44918135e-05 -9.73804960e-06 2.42298631e-05] w = [-0.24566523 0.71351716 2.53214808] w\_new= [-0.24566538 0.71351706 2.53214832]

gradient= [-1.44753642e-05 -9.72740380e-06 2.42027680e-05] w = [-0.24566538 0.71351706 2.53214832] w\_new= [-0.24566552 0.71351696 2.53214856]

gradient= [-1.44589337e-05 -9.71676955e-06 2.41757033e-05] w = [-0.24566552 0.71351696 2.53214856] w\_new= [-0.24566567 0.71351687 2.5321488 ]

gradient= [-1.44425219e-05 -9.70614682e-06 2.41486688e-05] w = [-0.24566567 0.71351687 2.5321488 ] w\_new= [-0.24566581 0.71351677 2.53214904]

gradient= [-1.44261289e-05 -9.69553562e-06 2.41216645e-05] w = [-0.24566581 0.71351677 2.53214904] w\_new= [-0.24566596 0.71351667 2.53214929]

gradient= [-1.44097545e-05 -9.68493592e-06 2.40946904e-05] w = [-0.24566596 0.71351667 2.53214929] w\_new= [-0.2456661 0.71351657 2.53214953]

gradient= [-1.43933988e-05 -9.67434772e-06 2.40677465e-05] w = [-0.2456661 0.71351657 2.53214953] w\_new= [-0.24566624 0.71351648 2.53214977]

gradient= [-1.43770617e-05 -9.66377100e-06 2.40408327e-05] w = [-0.24566624 0.71351648 2.53214977] w\_new= [-0.24566639 0.71351638 2.53215001]

gradient= [-1.43607432e-05 -9.65320575e-06 2.40139490e-05] w = [-0.24566639 0.71351638 2.53215001] w\_new= [-0.24566653 0.71351628 2.53215025]

gradient= [-1.43444434e-05 -9.64265196e-06 2.39870953e-05] w = [-0.24566653 0.71351628 2.53215025] w\_new= [-0.24566668 0.71351619 2.53215049]

gradient= [-1.43281621e-05 -9.63210961e-06 2.39602717e-05] w = [-0.24566668 0.71351619 2.53215049] w\_new= [-0.24566682 0.71351609 2.53215073]

gradient= [-1.43118994e-05 -9.62157870e-06 2.39334781e-05] w = [-0.24566682 0.71351609 2.53215073] w\_new= [-0.24566696 0.713516 2.53215097]

gradient= [-1.42956552e-05 -9.61105921e-06 2.39067144e-05] w = [-0.24566696 0.713516 2.53215097] w\_new= [-0.24566711 0.7135159 2.53215121]

gradient= [-1.42794296e-05 -9.60055113e-06 2.38799807e-05] w = [-0.24566711 0.7135159 2.53215121] w\_new= [-0.24566725 0.7135158 2.53215144]

gradient= [-1.42632224e-05 -9.59005444e-06 2.38532769e-05] w = [-0.24566725 0.7135158 2.53215144] w\_new= [-0.24566739 0.71351571 2.53215168]

gradient= [-1.42470337e-05 -9.57956914e-06 2.38266029e-05] w = [-0.24566739 0.71351571 2.53215168] w\_new= [-0.24566753 0.71351561 2.53215192]

gradient= [-1.42308635e-05 -9.56909521e-06 2.37999587e-05] w = [-0.24566753 0.71351561 2.53215192] w\_new= [-0.24566768 0.71351552 2.53215216]

gradient= [-1.42147117e-05 -9.55863264e-06 2.37733443e-05] w = [-0.24566768 0.71351552 2.53215216] w\_new= [-0.24566782 0.71351542 2.5321524 ]

gradient= [-1.41985783e-05 -9.54818142e-06 2.37467597e-05] w = [-0.24566782 0.71351542 2.5321524 ] w\_new= [-0.24566796 0.71351533 2.53215263]

gradient= [-1.41824633e-05 -9.53774153e-06 2.37202048e-05] w = [-0.24566796 0.71351533 2.53215263] w\_new= [-0.2456681 0.71351523 2.53215287]

gradient= [-1.41663667e-05 -9.52731297e-06 2.36936796e-05] w = [-0.2456681 0.71351523 2.53215287] w\_new= [-0.24566824 0.71351513 2.53215311]

gradient= [-1.41502884e-05 -9.51689572e-06 2.36671841e-05] w = [-0.24566824 0.71351513 2.53215311] w\_new= [-0.24566838 0.71351504 2.53215335]

gradient= [-1.41342284e-05 -9.50648977e-06 2.36407182e-05] w = [-0.24566838 0.71351504 2.53215335] w\_new= [-0.24566853 0.71351494 2.53215358]

gradient= [-1.41181868e-05 -9.49609510e-06 2.36142819e-05] w = [-0.24566853 0.71351494 2.53215358] w\_new= [-0.24566867 0.71351485 2.53215382]

gradient= [-1.41021634e-05 -9.48571171e-06 2.35878751e-05] w = [-0.24566867 0.71351485 2.53215382] w\_new= [-0.24566881 0.71351475 2.53215405]

gradient= [-1.40861583e-05 -9.47533958e-06 2.35614979e-05] w = [-0.24566881 0.71351475 2.53215405] w\_new= [-0.24566895 0.71351466 2.53215429]

gradient= [-1.40701714e-05 -9.46497870e-06 2.35351501e-05] w = [-0.24566895 0.71351466 2.53215429] w\_new= [-0.24566909 0.71351456 2.53215452]

gradient= [-1.40542028e-05 -9.45462907e-06 2.35088319e-05] w = [-0.24566909 0.71351456 2.53215452] w\_new= [-0.24566923 0.71351447 2.53215476]

gradient= [-1.40382524e-05 -9.44429065e-06 2.34825430e-05] w = [-0.24566923 0.71351447 2.53215476] w\_new= [-0.24566937 0.71351438 2.53215499]

gradient= [-1.40223201e-05 -9.43396346e-06 2.34562836e-05] w = [-0.24566937 0.71351438 2.53215499] w\_new= [-0.24566951 0.71351428 2.53215523]

gradient= [-1.40064060e-05 -9.42364746e-06 2.34300535e-05] w = [-0.24566951 0.71351428 2.53215523] w\_new= [-0.24566965 0.71351419 2.53215546]

gradient= [-1.39905100e-05 -9.41334266e-06 2.34038527e-05] w = [-0.24566965 0.71351419 2.53215546] w\_new= [-0.24566979 0.71351409 2.5321557 ]

gradient= [-1.39746322e-05 -9.40304903e-06 2.33776812e-05] w = [-0.24566979 0.71351409 2.5321557 ] w\_new= [-0.24566993 0.713514 2.53215593]

gradient= [-1.39587725e-05 -9.39276657e-06 2.33515390e-05] w = [-0.24566993 0.713514 2.53215593] w\_new= [-0.24567007 0.71351391 2.53215616]

gradient= [-1.39429308e-05 -9.38249527e-06 2.33254261e-05] w = [-0.24567007 0.71351391 2.53215616] w\_new= [-0.24567021 0.71351381 2.5321564 ]

gradient= [-1.39271072e-05 -9.37223511e-06 2.32993423e-05] w = [-0.24567021 0.71351381 2.5321564 ] w\_new= [-0.24567035 0.71351372 2.53215663]

gradient= [-1.39113016e-05 -9.36198608e-06 2.32732877e-05] w = [-0.24567035 0.71351372 2.53215663] w\_new= [-0.24567049 0.71351362 2.53215686]

gradient= [-1.38955140e-05 -9.35174816e-06 2.32472622e-05] w = [-0.24567049 0.71351362 2.53215686] w\_new= [-0.24567063 0.71351353 2.5321571 ]

gradient= [-1.38797445e-05 -9.34152136e-06 2.32212658e-05] w = [-0.24567063 0.71351353 2.5321571 ] w\_new= [-0.24567077 0.71351344 2.53215733]

gradient= [-1.38639929e-05 -9.33130565e-06 2.31952985e-05] w = [-0.24567077 0.71351344 2.53215733] w\_new= [-0.2456709 0.71351334 2.53215756]

gradient= [-1.38482592e-05 -9.32110102e-06 2.31693602e-05] w = [-0.2456709 0.71351334 2.53215756] w\_new= [-0.24567104 0.71351325 2.53215779]

gradient= [-1.38325435e-05 -9.31090746e-06 2.31434510e-05] w = [-0.24567104 0.71351325 2.53215779] w\_new= [-0.24567118 0.71351316 2.53215802]

gradient= [-1.38168457e-05 -9.30072496e-06 2.31175706e-05] w = [-0.24567118 0.71351316 2.53215802] w\_new= [-0.24567132 0.71351306 2.53215825]

gradient= [-1.38011658e-05 -9.29055351e-06 2.30917193e-05] w = [-0.24567132 0.71351306 2.53215825] w\_new= [-0.24567146 0.71351297 2.53215849]

gradient= [-1.37855037e-05 -9.28039310e-06 2.30658968e-05] w = [-0.24567146 0.71351297 2.53215849] w\_new= [-0.2456716 0.71351288 2.53215872]

gradient= [-1.37698595e-05 -9.27024371e-06 2.30401032e-05] w = [-0.2456716 0.71351288 2.53215872] w\_new= [-0.24567173 0.71351279 2.53215895]

gradient= [-1.37542332e-05 -9.26010533e-06 2.30143385e-05] w = [-0.24567173 0.71351279 2.53215895] w\_new= [-0.24567187 0.71351269 2.53215918]

gradient= [-1.37386246e-05 -9.24997795e-06 2.29886026e-05] w = [-0.24567187 0.71351269 2.53215918] w\_new= [-0.24567201 0.7135126 2.53215941]

gradient= [-1.37230338e-05 -9.23986156e-06 2.29628954e-05] w = [-0.24567201 0.7135126 2.53215941] w\_new= [-0.24567214 0.71351251 2.53215964]

gradient= [-1.37074608e-05 -9.22975614e-06 2.29372170e-05] w = [-0.24567214 0.71351251 2.53215964] w\_new= [-0.24567228 0.71351242 2.53215987]

gradient= [-1.36919056e-05 -9.21966169e-06 2.29115673e-05] w = [-0.24567228 0.71351242 2.53215987] w\_new= [-0.24567242 0.71351232 2.53216009]

gradient= [-1.36763681e-05 -9.20957819e-06 2.28859463e-05] w = [-0.24567242 0.71351232 2.53216009] w\_new= [-0.24567256 0.71351223 2.53216032]

gradient= [-1.36608482e-05 -9.19950564e-06 2.28603539e-05] w = [-0.24567256 0.71351223 2.53216032] w\_new= [-0.24567269 0.71351214 2.53216055]

gradient= [-1.36453461e-05 -9.18944401e-06 2.28347901e-05] w = [-0.24567269 0.71351214 2.53216055] w\_new= [-0.24567283 0.71351205 2.53216078]

gradient= [-1.36298616e-05 -9.17939330e-06 2.28092549e-05] w = [-0.24567283 0.71351205 2.53216078] w\_new= [-0.24567296 0.71351196 2.53216101]

gradient= [-1.36143948e-05 -9.16935349e-06 2.27837483e-05] w = [-0.24567296 0.71351196 2.53216101] w\_new= [-0.2456731 0.71351186 2.53216124]

gradient= [-1.35989456e-05 -9.15932458e-06 2.27582702e-05] w = [-0.2456731 0.71351186 2.53216124] w\_new= [-0.24567324 0.71351177 2.53216146]

gradient= [-1.35835140e-05 -9.14930656e-06 2.27328206e-05] w = [-0.24567324 0.71351177 2.53216146] w\_new= [-0.24567337 0.71351168 2.53216169]

gradient= [-1.35681000e-05 -9.13929940e-06 2.27073994e-05] w = [-0.24567337 0.71351168 2.53216169] w\_new= [-0.24567351 0.71351159 2.53216192]

gradient= [-1.35527036e-05 -9.12930310e-06 2.26820067e-05] w = [-0.24567351 0.71351159 2.53216192] w\_new= [-0.24567364 0.7135115 2.53216215]

gradient= [-1.35373247e-05 -9.11931765e-06 2.26566424e-05] w = [-0.24567364 0.7135115 2.53216215] w\_new= [-0.24567378 0.71351141 2.53216237]

gradient= [-1.35219633e-05 -9.10934304e-06 2.26313064e-05] w = [-0.24567378 0.71351141 2.53216237] w\_new= [-0.24567391 0.71351132 2.5321626 ]

gradient= [-1.35066195e-05 -9.09937925e-06 2.26059987e-05] w = [-0.24567391 0.71351132 2.5321626 ] w\_new= [-0.24567405 0.71351123 2.53216282]

gradient= [-1.34912931e-05 -9.08942627e-06 2.25807194e-05] w = [-0.24567405 0.71351123 2.53216282] w\_new= [-0.24567418 0.71351113 2.53216305]

gradient= [-1.34759842e-05 -9.07948410e-06 2.25554683e-05] w = [-0.24567418 0.71351113 2.53216305] w\_new= [-0.24567432 0.71351104 2.53216328]

gradient= [-1.34606927e-05 -9.06955271e-06 2.25302454e-05] w = [-0.24567432 0.71351104 2.53216328] w\_new= [-0.24567445 0.71351095 2.5321635 ]

gradient= [-1.34454187e-05 -9.05963210e-06 2.25050508e-05] w = [-0.24567445 0.71351095 2.5321635 ] w\_new= [-0.24567459 0.71351086 2.53216373]

gradient= [-1.34301620e-05 -9.04972226e-06 2.24798843e-05] w = [-0.24567459 0.71351086 2.53216373] w\_new= [-0.24567472 0.71351077 2.53216395]

gradient= [-1.34149228e-05 -9.03982317e-06 2.24547459e-05] w = [-0.24567472 0.71351077 2.53216395] w\_new= [-0.24567486 0.71351068 2.53216418]

gradient= [-1.33997009e-05 -9.02993482e-06 2.24296357e-05] w = [-0.24567486 0.71351068 2.53216418] w\_new= [-0.24567499 0.71351059 2.5321644 ]

gradient= [-1.33844963e-05 -9.02005721e-06 2.24045536e-05] w = [-0.24567499 0.71351059 2.5321644 ] w\_new= [-0.24567512 0.7135105 2.53216462]

gradient= [-1.33693091e-05 -9.01019032e-06 2.23794994e-05] w = [-0.24567512 0.7135105 2.53216462] w\_new= [-0.24567526 0.71351041 2.53216485]

gradient= [-1.33541392e-05 -9.00033413e-06 2.23544734e-05] w = [-0.24567526 0.71351041 2.53216485] w\_new= [-0.24567539 0.71351032 2.53216507]

gradient= [-1.33389866e-05 -8.99048864e-06 2.23294752e-05] w = [-0.24567539 0.71351032 2.53216507] w\_new= [-0.24567553 0.71351023 2.53216529]

gradient= [-1.33238512e-05 -8.98065384e-06 2.23045051e-05] w = [-0.24567553 0.71351023 2.53216529] w\_new= [-0.24567566 0.71351014 2.53216552]

gradient= [-1.33087331e-05 -8.97082971e-06 2.22795628e-05] w = [-0.24567566 0.71351014 2.53216552] w\_new= [-0.24567579 0.71351005 2.53216574]

gradient= [-1.32936322e-05 -8.96101625e-06 2.22546485e-05] w = [-0.24567579 0.71351005 2.53216574] w\_new= [-0.24567592 0.71350996 2.53216596]

gradient= [-1.32785486e-05 -8.95121343e-06 2.22297620e-05] w = [-0.24567592 0.71350996 2.53216596] w\_new= [-0.24567606 0.71350987 2.53216618]

gradient= [-1.32634821e-05 -8.94142126e-06 2.22049033e-05] w = [-0.24567606 0.71350987 2.53216618] w\_new= [-0.24567619 0.71350978 2.53216641]

gradient= [-1.32484327e-05 -8.93163971e-06 2.21800724e-05] w = [-0.24567619 0.71350978 2.53216641] w\_new= [-0.24567632 0.71350969 2.53216663]

gradient= [-1.32334005e-05 -8.92186878e-06 2.21552693e-05] w = [-0.24567632 0.71350969 2.53216663] w\_new= [-0.24567645 0.7135096 2.53216685]

gradient= [-1.32183855e-05 -8.91210846e-06 2.21304940e-05] w = [-0.24567645 0.7135096 2.53216685] w\_new= [-0.24567659 0.71350952 2.53216707]

gradient= [-1.32033876e-05 -8.90235873e-06 2.21057463e-05] w = [-0.24567659 0.71350952 2.53216707] w\_new= [-0.24567672 0.71350943 2.53216729]

gradient= [-1.31884067e-05 -8.89261958e-06 2.20810263e-05] w = [-0.24567672 0.71350943 2.53216729] w\_new= [-0.24567685 0.71350934 2.53216751]

gradient= [-1.31734429e-05 -8.88289101e-06 2.20563339e-05] w = [-0.24567685 0.71350934 2.53216751] w\_new= [-0.24567698 0.71350925 2.53216773]

gradient= [-1.31584962e-05 -8.87317299e-06 2.20316692e-05] w = [-0.24567698 0.71350925 2.53216773] w\_new= [-0.24567711 0.71350916 2.53216795]

gradient= [-1.31435665e-05 -8.86346553e-06 2.20070320e-05] w = [-0.24567711 0.71350916 2.53216795] w\_new= [-0.24567725 0.71350907 2.53216817]

gradient= [-1.31286538e-05 -8.85376860e-06 2.19824224e-05] w = [-0.24567725 0.71350907 2.53216817] w\_new= [-0.24567738 0.71350898 2.53216839]

gradient= [-1.31137581e-05 -8.84408219e-06 2.19578403e-05] w = [-0.24567738 0.71350898 2.53216839] w\_new= [-0.24567751 0.71350889 2.53216861]

gradient= [-1.30988793e-05 -8.83440631e-06 2.19332856e-05] w = [-0.24567751 0.71350889 2.53216861] w\_new= [-0.24567764 0.71350881 2.53216883]

gradient= [-1.30840176e-05 -8.82474092e-06 2.19087585e-05] w = [-0.24567764 0.71350881 2.53216883] w\_new= [-0.24567777 0.71350872 2.53216905]

gradient= [-1.30691727e-05 -8.81508603e-06 2.18842587e-05] w = [-0.24567777 0.71350872 2.53216905] w\_new= [-0.2456779 0.71350863 2.53216927]

gradient= [-1.30543448e-05 -8.80544162e-06 2.18597864e-05] w = [-0.2456779 0.71350863 2.53216927] w\_new= [-0.24567803 0.71350854 2.53216949]

gradient= [-1.30395337e-05 -8.79580768e-06 2.18353414e-05] w = [-0.24567803 0.71350854 2.53216949] w\_new= [-0.24567816 0.71350845 2.53216971]

gradient= [-1.30247396e-05 -8.78618419e-06 2.18109238e-05] w = [-0.24567816 0.71350845 2.53216971] w\_new= [-0.24567829 0.71350837 2.53216993]

gradient= [-1.30099623e-05 -8.77657116e-06 2.17865334e-05] w = [-0.24567829 0.71350837 2.53216993] w\_new= [-0.24567842 0.71350828 2.53217014]

gradient= [-1.29952018e-05 -8.76696856e-06 2.17621703e-05] w = [-0.24567842 0.71350828 2.53217014] w\_new= [-0.24567855 0.71350819 2.53217036]

gradient= [-1.29804581e-05 -8.75737638e-06 2.17378345e-05] w = [-0.24567855 0.71350819 2.53217036] w\_new= [-0.24567868 0.7135081 2.53217058]

gradient= [-1.29657313e-05 -8.74779462e-06 2.17135259e-05] w = [-0.24567868 0.7135081 2.53217058] w\_new= [-0.24567881 0.71350802 2.5321708 ]

gradient= [-1.29510212e-05 -8.73822326e-06 2.16892444e-05] w = [-0.24567881 0.71350802 2.5321708 ] w\_new= [-0.24567894 0.71350793 2.53217101]

gradient= [-1.29363278e-05 -8.72866229e-06 2.16649901e-05] w = [-0.24567894 0.71350793 2.53217101] w\_new= [-0.24567907 0.71350784 2.53217123]

gradient= [-1.29216513e-05 -8.71911170e-06 2.16407630e-05] w = [-0.24567907 0.71350784 2.53217123] w\_new= [-0.2456792 0.71350775 2.53217145]

gradient= [-1.29069914e-05 -8.70957148e-06 2.16165629e-05] w = [-0.2456792 0.71350775 2.53217145] w\_new= [-0.24567933 0.71350767 2.53217166]

gradient= [-1.28923482e-05 -8.70004162e-06 2.15923899e-05] w = [-0.24567933 0.71350767 2.53217166] w\_new= [-0.24567946 0.71350758 2.53217188]

gradient= [-1.28777218e-05 -8.69052211e-06 2.15682439e-05] w = [-0.24567946 0.71350758 2.53217188] w\_new= [-0.24567959 0.71350749 2.53217209]

gradient= [-1.28631119e-05 -8.68101293e-06 2.15441249e-05] w = [-0.24567959 0.71350749 2.53217209] w\_new= [-0.24567971 0.71350741 2.53217231]

gradient= [-1.28485188e-05 -8.67151407e-06 2.15200328e-05] w = [-0.24567971 0.71350741 2.53217231] w\_new= [-0.24567984 0.71350732 2.53217252]

gradient= [-1.28339422e-05 -8.66202553e-06 2.14959677e-05] w = [-0.24567984 0.71350732 2.53217252] w\_new= [-0.24567997 0.71350723 2.53217274]

gradient= [-1.28193823e-05 -8.65254729e-06 2.14719296e-05] w = [-0.24567997 0.71350723 2.53217274] w\_new= [-0.2456801 0.71350715 2.53217295]

gradient= [-1.28048389e-05 -8.64307934e-06 2.14479183e-05] w = [-0.2456801 0.71350715 2.53217295] w\_new= [-0.24568023 0.71350706 2.53217317]

gradient= [-1.27903121e-05 -8.63362168e-06 2.14239338e-05] w = [-0.24568023 0.71350706 2.53217317] w\_new= [-0.24568036 0.71350697 2.53217338]

gradient= [-1.27758019e-05 -8.62417428e-06 2.13999762e-05] w = [-0.24568036 0.71350697 2.53217338] w\_new= [-0.24568048 0.71350689 2.5321736 ]

gradient= [-1.27613082e-05 -8.61473714e-06 2.13760453e-05] w = [-0.24568048 0.71350689 2.5321736 ] w\_new= [-0.24568061 0.7135068 2.53217381]

gradient= [-1.27468310e-05 -8.60531024e-06 2.13521412e-05] w = [-0.24568061 0.7135068 2.53217381] w\_new= [-0.24568074 0.71350671 2.53217402]

gradient= [-1.27323703e-05 -8.59589359e-06 2.13282639e-05] w = [-0.24568074 0.71350671 2.53217402] w\_new= [-0.24568087 0.71350663 2.53217424]

gradient= [-1.27179260e-05 -8.58648715e-06 2.13044132e-05] w = [-0.24568087 0.71350663 2.53217424] w\_new= [-0.24568099 0.71350654 2.53217445]

gradient= [-1.27034983e-05 -8.57709094e-06 2.12805892e-05] w = [-0.24568099 0.71350654 2.53217445] w\_new= [-0.24568112 0.71350646 2.53217466]

gradient= [-1.26890869e-05 -8.56770492e-06 2.12567918e-05] w = [-0.24568112 0.71350646 2.53217466] w\_new= [-0.24568125 0.71350637 2.53217488]

gradient= [-1.26746920e-05 -8.55832910e-06 2.12330211e-05] w = [-0.24568125 0.71350637 2.53217488] w\_new= [-0.24568137 0.71350629 2.53217509]

gradient= [-1.26603135e-05 -8.54896346e-06 2.12092769e-05] w = [-0.24568137 0.71350629 2.53217509] w\_new= [-0.2456815 0.7135062 2.5321753]

gradient= [-1.26459513e-05 -8.53960798e-06 2.11855593e-05] w = [-0.2456815 0.7135062 2.5321753] w\_new= [-0.24568163 0.71350611 2.53217551]

gradient= [-1.26316055e-05 -8.53026267e-06 2.11618682e-05] w = [-0.24568163 0.71350611 2.53217551] w\_new= [-0.24568175 0.71350603 2.53217572]

gradient= [-1.26172761e-05 -8.52092751e-06 2.11382036e-05] w = [-0.24568175 0.71350603 2.53217572] w\_new= [-0.24568188 0.71350594 2.53217594]

gradient= [-1.26029630e-05 -8.51160248e-06 2.11145654e-05] w = [-0.24568188 0.71350594 2.53217594] w\_new= [-0.24568201 0.71350586 2.53217615]

gradient= [-1.25886661e-05 -8.50228758e-06 2.10909537e-05] w = [-0.24568201 0.71350586 2.53217615] w\_new= [-0.24568213 0.71350577 2.53217636]

gradient= [-1.25743856e-05 -8.49298280e-06 2.10673684e-05] w = [-0.24568213 0.71350577 2.53217636] w\_new= [-0.24568226 0.71350569 2.53217657]

gradient= [-1.25601213e-05 -8.48368812e-06 2.10438095e-05] w = [-0.24568226 0.71350569 2.53217657] w\_new= [-0.24568238 0.7135056 2.53217678]

gradient= [-1.25458733e-05 -8.47440353e-06 2.10202769e-05] w = [-0.24568238 0.7135056 2.53217678] w\_new= [-0.24568251 0.71350552 2.53217699]

gradient= [-1.25316415e-05 -8.46512903e-06 2.09967706e-05] w = [-0.24568251 0.71350552 2.53217699] w\_new= [-0.24568263 0.71350543 2.5321772 ]

gradient= [-1.25174260e-05 -8.45586460e-06 2.09732906e-05] w = [-0.24568263 0.71350543 2.5321772 ] w\_new= [-0.24568276 0.71350535 2.53217741]

gradient= [-1.25032266e-05 -8.44661023e-06 2.09498368e-05] w = [-0.24568276 0.71350535 2.53217741] w\_new= [-0.24568288 0.71350527 2.53217762]

gradient= [-1.24890434e-05 -8.43736592e-06 2.09264093e-05] w = [-0.24568288 0.71350527 2.53217762] w\_new= [-0.24568301 0.71350518 2.53217783]

gradient= [-1.24748763e-05 -8.42813164e-06 2.09030079e-05] w = [-0.24568301 0.71350518 2.53217783] w\_new= [-0.24568313 0.7135051 2.53217804]

gradient= [-1.24607254e-05 -8.41890739e-06 2.08796328e-05] w = [-0.24568313 0.7135051 2.53217804] w\_new= [-0.24568326 0.71350501 2.53217824]

gradient= [-1.24465906e-05 -8.40969316e-06 2.08562837e-05] w = [-0.24568326 0.71350501 2.53217824] w\_new= [-0.24568338 0.71350493 2.53217845]

gradient= [-1.24324719e-05 -8.40048894e-06 2.08329608e-05] w = [-0.24568338 0.71350493 2.53217845] w\_new= [-0.24568351 0.71350484 2.53217866]

gradient= [-1.24183693e-05 -8.39129471e-06 2.08096640e-05] w = [-0.24568351 0.71350484 2.53217866] w\_new= [-0.24568363 0.71350476 2.53217887]

gradient= [-1.24042827e-05 -8.38211047e-06 2.07863932e-05] w = [-0.24568363 0.71350476 2.53217887] w\_new= [-0.24568376 0.71350468 2.53217908]

gradient= [-1.23902122e-05 -8.37293621e-06 2.07631484e-05] w = [-0.24568376 0.71350468 2.53217908] w\_new= [-0.24568388 0.71350459 2.53217929]

gradient= [-1.23761577e-05 -8.36377191e-06 2.07399296e-05] w = [-0.24568388 0.71350459 2.53217929] w\_new= [-0.245684 0.71350451 2.53217949]

gradient= [-1.23621192e-05 -8.35461756e-06 2.07167368e-05] w = [-0.245684 0.71350451 2.53217949] w\_new= [-0.24568413 0.71350443 2.5321797 ]

gradient= [-1.23480968e-05 -8.34547316e-06 2.06935699e-05] w = [-0.24568413 0.71350443 2.5321797 ] w\_new= [-0.24568425 0.71350434 2.53217991]

gradient= [-1.23340902e-05 -8.33633869e-06 2.06704289e-05] w = [-0.24568425 0.71350434 2.53217991] w\_new= [-0.24568437 0.71350426 2.53218011]

gradient= [-1.23200997e-05 -8.32721414e-06 2.06473138e-05] w = [-0.24568437 0.71350426 2.53218011] w\_new= [-0.2456845 0.71350418 2.53218032]

gradient= [-1.23061251e-05 -8.31809950e-06 2.06242246e-05] w = [-0.2456845 0.71350418 2.53218032] w\_new= [-0.24568462 0.71350409 2.53218053]

gradient= [-1.22921663e-05 -8.30899477e-06 2.06011611e-05] w = [-0.24568462 0.71350409 2.53218053] w\_new= [-0.24568474 0.71350401 2.53218073]

gradient= [-1.22782235e-05 -8.29989992e-06 2.05781235e-05] w = [-0.24568474 0.71350401 2.53218073] w\_new= [-0.24568487 0.71350393 2.53218094]

gradient= [-1.22642966e-05 -8.29081495e-06 2.05551116e-05] w = [-0.24568487 0.71350393 2.53218094] w\_new= [-0.24568499 0.71350384 2.53218114]

gradient= [-1.22503855e-05 -8.28173985e-06 2.05321254e-05] w = [-0.24568499 0.71350384 2.53218114] w\_new= [-0.24568511 0.71350376 2.53218135]

gradient= [-1.22364903e-05 -8.27267461e-06 2.05091649e-05] w = [-0.24568511 0.71350376 2.53218135] w\_new= [-0.24568523 0.71350368 2.53218155]

gradient= [-1.22226109e-05 -8.26361922e-06 2.04862301e-05] w = [-0.24568523 0.71350368 2.53218155] w\_new= [-0.24568535 0.7135036 2.53218176]

gradient= [-1.22087473e-05 -8.25457366e-06 2.04633210e-05] w = [-0.24568535 0.7135036 2.53218176] w\_new= [-0.24568548 0.71350351 2.53218196]

gradient= [-1.21948995e-05 -8.24553793e-06 2.04404374e-05] w = [-0.24568548 0.71350351 2.53218196] w\_new= [-0.2456856 0.71350343 2.53218217]

gradient= [-1.21810675e-05 -8.23651202e-06 2.04175795e-05] w = [-0.2456856 0.71350343 2.53218217] w\_new= [-0.24568572 0.71350335 2.53218237]

gradient= [-1.21672512e-05 -8.22749591e-06 2.03947471e-05] w = [-0.24568572 0.71350335 2.53218237] w\_new= [-0.24568584 0.71350327 2.53218258]

gradient= [-1.21534507e-05 -8.21848960e-06 2.03719403e-05] w = [-0.24568584 0.71350327 2.53218258] w\_new= [-0.24568596 0.71350318 2.53218278]

gradient= [-1.21396658e-05 -8.20949307e-06 2.03491589e-05] w = [-0.24568596 0.71350318 2.53218278] w\_new= [-0.24568609 0.7135031 2.53218298]

gradient= [-1.21258967e-05 -8.20050631e-06 2.03264030e-05] w = [-0.24568609 0.7135031 2.53218298] w\_new= [-0.24568621 0.71350302 2.53218319]

gradient= [-1.21121433e-05 -8.19152931e-06 2.03036726e-05] w = [-0.24568621 0.71350302 2.53218319] w\_new= [-0.24568633 0.71350294 2.53218339]

gradient= [-1.20984055e-05 -8.18256207e-06 2.02809676e-05] w = [-0.24568633 0.71350294 2.53218339] w\_new= [-0.24568645 0.71350286 2.53218359]

gradient= [-1.20846833e-05 -8.17360457e-06 2.02582879e-05] w = [-0.24568645 0.71350286 2.53218359] w\_new= [-0.24568657 0.71350277 2.53218379]

gradient= [-1.20709768e-05 -8.16465681e-06 2.02356336e-05] w = [-0.24568657 0.71350277 2.53218379] w\_new= [-0.24568669 0.71350269 2.532184 ]

gradient= [-1.20572859e-05 -8.15571876e-06 2.02130047e-05] w = [-0.24568669 0.71350269 2.532184 ] w\_new= [-0.24568681 0.71350261 2.5321842 ]

gradient= [-1.20436106e-05 -8.14679042e-06 2.01904011e-05] w = [-0.24568681 0.71350261 2.5321842 ] w\_new= [-0.24568693 0.71350253 2.5321844 ]

gradient= [-1.20299509e-05 -8.13787179e-06 2.01678227e-05] w = [-0.24568693 0.71350253 2.5321844 ] w\_new= [-0.24568705 0.71350245 2.5321846 ]

gradient= [-1.20163067e-05 -8.12896284e-06 2.01452696e-05] w = [-0.24568705 0.71350245 2.5321846 ] w\_new= [-0.24568717 0.71350237 2.5321848 ]

gradient= [-1.20026781e-05 -8.12006358e-06 2.01227417e-05] w = [-0.24568717 0.71350237 2.5321848 ] w\_new= [-0.24568729 0.71350229 2.53218501]

gradient= [-1.19890650e-05 -8.11117398e-06 2.01002389e-05] w = [-0.24568729 0.71350229 2.53218501] w\_new= [-0.24568741 0.7135022 2.53218521]

gradient= [-1.19754674e-05 -8.10229404e-06 2.00777614e-05] w = [-0.24568741 0.7135022 2.53218521] w\_new= [-0.24568753 0.71350212 2.53218541]

gradient= [-1.19618852e-05 -8.09342375e-06 2.00553090e-05] w = [-0.24568753 0.71350212 2.53218541] w\_new= [-0.24568765 0.71350204 2.53218561]

gradient= [-1.19483186e-05 -8.08456310e-06 2.00328817e-05] w = [-0.24568765 0.71350204 2.53218561] w\_new= [-0.24568777 0.71350196 2.53218581]

gradient= [-1.19347673e-05 -8.07571207e-06 2.00104794e-05] w = [-0.24568777 0.71350196 2.53218581] w\_new= [-0.24568789 0.71350188 2.53218601]

gradient= [-1.19212316e-05 -8.06687067e-06 1.99881022e-05] w = [-0.24568789 0.71350188 2.53218601] w\_new= [-0.24568801 0.7135018 2.53218621]

gradient= [-1.19077112e-05 -8.05803886e-06 1.99657501e-05] w = [-0.24568801 0.7135018 2.53218621] w\_new= [-0.24568813 0.71350172 2.53218641]

gradient= [-1.18942062e-05 -8.04921666e-06 1.99434229e-05] w = [-0.24568813 0.71350172 2.53218641] w\_new= [-0.24568825 0.71350164 2.53218661]

gradient= [-1.18807166e-05 -8.04040404e-06 1.99211207e-05] w = [-0.24568825 0.71350164 2.53218661] w\_new= [-0.24568837 0.71350156 2.53218681]

gradient= [-1.18672424e-05 -8.03160100e-06 1.98988434e-05] w = [-0.24568837 0.71350156 2.53218681] w\_new= [-0.24568848 0.71350148 2.53218701]

gradient= [-1.18537835e-05 -8.02280752e-06 1.98765910e-05] w = [-0.24568848 0.71350148 2.53218701] w\_new= [-0.2456886 0.7135014 2.5321872]

gradient= [-1.18403400e-05 -8.01402360e-06 1.98543636e-05] w = [-0.2456886 0.7135014 2.5321872] w\_new= [-0.24568872 0.71350132 2.5321874 ]

gradient= [-1.18269117e-05 -8.00524922e-06 1.98321609e-05] w = [-0.24568872 0.71350132 2.5321874 ] w\_new= [-0.24568884 0.71350124 2.5321876 ]

gradient= [-1.18134987e-05 -7.99648438e-06 1.98099831e-05] w = [-0.24568884 0.71350124 2.5321876 ] w\_new= [-0.24568896 0.71350116 2.5321878 ]

gradient= [-1.18001011e-05 -7.98772906e-06 1.97878301e-05] w = [-0.24568896 0.71350116 2.5321878 ] w\_new= [-0.24568908 0.71350108 2.532188 ]

gradient= [-1.17867186e-05 -7.97898326e-06 1.97657019e-05] w = [-0.24568908 0.71350108 2.532188 ] w\_new= [-0.24568919 0.713501 2.53218819]

gradient= [-1.17733514e-05 -7.97024696e-06 1.97435984e-05] w = [-0.24568919 0.713501 2.53218819] w\_new= [-0.24568931 0.71350092 2.53218839]

gradient= [-1.17599995e-05 -7.96152016e-06 1.97215196e-05] w = [-0.24568931 0.71350092 2.53218839] w\_new= [-0.24568943 0.71350084 2.53218859]

gradient= [-1.17466627e-05 -7.95280283e-06 1.96994655e-05] w = [-0.24568943 0.71350084 2.53218859] w\_new= [-0.24568955 0.71350076 2.53218879]

gradient= [-1.17333411e-05 -7.94409499e-06 1.96774361e-05] w = [-0.24568955 0.71350076 2.53218879] w\_new= [-0.24568966 0.71350068 2.53218898]

gradient= [-1.17200347e-05 -7.93539660e-06 1.96554313e-05] w = [-0.24568966 0.71350068 2.53218898] w\_new= [-0.24568978 0.7135006 2.53218918]

gradient= [-1.17067434e-05 -7.92670767e-06 1.96334511e-05] w = [-0.24568978 0.7135006 2.53218918] w\_new= [-0.2456899 0.71350052 2.53218938]

gradient= [-1.16934673e-05 -7.91802818e-06 1.96114955e-05] w = [-0.2456899 0.71350052 2.53218938] w\_new= [-0.24569002 0.71350044 2.53218957]

gradient= [-1.16802063e-05 -7.90935812e-06 1.95895644e-05] w = [-0.24569002 0.71350044 2.53218957] w\_new= [-0.24569013 0.71350036 2.53218977]

gradient= [-1.16669604e-05 -7.90069749e-06 1.95676579e-05] w = [-0.24569013 0.71350036 2.53218977] w\_new= [-0.24569025 0.71350028 2.53218996]

gradient= [-1.16537296e-05 -7.89204626e-06 1.95457758e-05] w = [-0.24569025 0.71350028 2.53218996] w\_new= [-0.24569037 0.71350021 2.53219016]

gradient= [-1.16405138e-05 -7.88340444e-06 1.95239183e-05] w = [-0.24569037 0.71350021 2.53219016] w\_new= [-0.24569048 0.71350013 2.53219035]

gradient= [-1.16273131e-05 -7.87477202e-06 1.95020851e-05] w = [-0.24569048 0.71350013 2.53219035] w\_new= [-0.2456906 0.71350005 2.53219055]

gradient= [-1.16141274e-05 -7.86614897e-06 1.94802764e-05] w = [-0.2456906 0.71350005 2.53219055] w\_new= [-0.24569071 0.71349997 2.53219074]

gradient= [-1.16009567e-05 -7.85753530e-06 1.94584920e-05] w = [-0.24569071 0.71349997 2.53219074] w\_new= [-0.24569083 0.71349989 2.53219094]

gradient= [-1.15878011e-05 -7.84893099e-06 1.94367321e-05] w = [-0.24569083 0.71349989 2.53219094] w\_new= [-0.24569095 0.71349981 2.53219113]

gradient= [-1.15746604e-05 -7.84033603e-06 1.94149964e-05] w = [-0.24569095 0.71349981 2.53219113] w\_new= [-0.24569106 0.71349973 2.53219133]

gradient= [-1.15615346e-05 -7.83175041e-06 1.93932851e-05] w = [-0.24569106 0.71349973 2.53219133] w\_new= [-0.24569118 0.71349966 2.53219152]

gradient= [-1.15484239e-05 -7.82317412e-06 1.93715980e-05] w = [-0.24569118 0.71349966 2.53219152] w\_new= [-0.24569129 0.71349958 2.53219172]

gradient= [-1.15353280e-05 -7.81460716e-06 1.93499352e-05] w = [-0.24569129 0.71349958 2.53219172] w\_new= [-0.24569141 0.7134995 2.53219191]

gradient= [-1.15222470e-05 -7.80604950e-06 1.93282966e-05] w = [-0.24569141 0.7134995 2.53219191] w\_new= [-0.24569152 0.71349942 2.5321921 ]

gradient= [-1.15091810e-05 -7.79750115e-06 1.93066821e-05] w = [-0.24569152 0.71349942 2.5321921 ] w\_new= [-0.24569164 0.71349934 2.5321923 ]

gradient= [-1.14961298e-05 -7.78896209e-06 1.92850919e-05] w = [-0.24569164 0.71349934 2.5321923 ] w\_new= [-0.24569175 0.71349927 2.53219249]

gradient= [-1.14830935e-05 -7.78043231e-06 1.92635258e-05] w = [-0.24569175 0.71349927 2.53219249] w\_new= [-0.24569187 0.71349919 2.53219268]

gradient= [-1.14700720e-05 -7.77191181e-06 1.92419838e-05] w = [-0.24569187 0.71349919 2.53219268] w\_new= [-0.24569198 0.71349911 2.53219287]

gradient= [-1.14570654e-05 -7.76340056e-06 1.92204659e-05] w = [-0.24569198 0.71349911 2.53219287] w\_new= [-0.2456921 0.71349903 2.53219307]

gradient= [-1.14440735e-05 -7.75489857e-06 1.91989721e-05] w = [-0.2456921 0.71349903 2.53219307] w\_new= [-0.24569221 0.71349895 2.53219326]

gradient= [-1.14310965e-05 -7.74640582e-06 1.91775023e-05] w = [-0.24569221 0.71349895 2.53219326] w\_new= [-0.24569233 0.71349888 2.53219345]

gradient= [-1.14181342e-05 -7.73792230e-06 1.91560565e-05] w = [-0.24569233 0.71349888 2.53219345] w\_new= [-0.24569244 0.7134988 2.53219364]

gradient= [-1.14051867e-05 -7.72944800e-06 1.91346347e-05] w = [-0.24569244 0.7134988 2.53219364] w\_new= [-0.24569255 0.71349872 2.53219383]

gradient= [-1.13922539e-05 -7.72098291e-06 1.91132368e-05] w = [-0.24569255 0.71349872 2.53219383] w\_new= [-0.24569267 0.71349865 2.53219402]

gradient= [-1.13793358e-05 -7.71252703e-06 1.90918629e-05] w = [-0.24569267 0.71349865 2.53219402] w\_new= [-0.24569278 0.71349857 2.53219421]

gradient= [-1.13664325e-05 -7.70408034e-06 1.90705128e-05] w = [-0.24569278 0.71349857 2.53219421] w\_new= [-0.2456929 0.71349849 2.5321944 ]

gradient= [-1.13535438e-05 -7.69564283e-06 1.90491867e-05] w = [-0.2456929 0.71349849 2.5321944 ] w\_new= [-0.24569301 0.71349841 2.5321946 ]

gradient= [-1.13406699e-05 -7.68721449e-06 1.90278843e-05] w = [-0.24569301 0.71349841 2.5321946 ] w\_new= [-0.24569312 0.71349834 2.53219479]

gradient= [-1.13278105e-05 -7.67879532e-06 1.90066058e-05] w = [-0.24569312 0.71349834 2.53219479] w\_new= [-0.24569324 0.71349826 2.53219498]

gradient= [-1.13149658e-05 -7.67038530e-06 1.89853511e-05] w = [-0.24569324 0.71349826 2.53219498] w\_new= [-0.24569335 0.71349818 2.53219517]

gradient= [-1.13021358e-05 -7.66198442e-06 1.89641202e-05] w = [-0.24569335 0.71349818 2.53219517] w\_new= [-0.24569346 0.71349811 2.53219535]

gradient= [-1.12893203e-05 -7.65359267e-06 1.89429130e-05] w = [-0.24569346 0.71349811 2.53219535] w\_new= [-0.24569357 0.71349803 2.53219554]

gradient= [-1.12765195e-05 -7.64521005e-06 1.89217295e-05] w = [-0.24569357 0.71349803 2.53219554] w\_new= [-0.24569369 0.71349795 2.53219573]

gradient= [-1.12637332e-05 -7.63683654e-06 1.89005697e-05] w = [-0.24569369 0.71349795 2.53219573] w\_new= [-0.2456938 0.71349788 2.53219592]

gradient= [-1.12509614e-05 -7.62847213e-06 1.88794336e-05] w = [-0.2456938 0.71349788 2.53219592] w\_new= [-0.24569391 0.7134978 2.53219611]

gradient= [-1.12382042e-05 -7.62011682e-06 1.88583210e-05] w = [-0.24569391 0.7134978 2.53219611] w\_new= [-0.24569403 0.71349773 2.5321963 ]

gradient= [-1.12254616e-05 -7.61177059e-06 1.88372321e-05] w = [-0.24569403 0.71349773 2.5321963 ] w\_new= [-0.24569414 0.71349765 2.53219649]

gradient= [-1.12127334e-05 -7.60343343e-06 1.88161668e-05] w = [-0.24569414 0.71349765 2.53219649] w\_new= [-0.24569425 0.71349757 2.53219668]

gradient= [-1.12000197e-05 -7.59510534e-06 1.87951250e-05] w = [-0.24569425 0.71349757 2.53219668] w\_new= [-0.24569436 0.7134975 2.53219686]

gradient= [-1.11873205e-05 -7.58678631e-06 1.87741068e-05] w = [-0.24569436 0.7134975 2.53219686] w\_new= [-0.24569447 0.71349742 2.53219705]

gradient= [-1.11746358e-05 -7.57847632e-06 1.87531121e-05] w = [-0.24569447 0.71349742 2.53219705] w\_new= [-0.24569459 0.71349735 2.53219724]

gradient= [-1.11619654e-05 -7.57017536e-06 1.87321408e-05] w = [-0.24569459 0.71349735 2.53219724] w\_new= [-0.2456947 0.71349727 2.53219743]

gradient= [-1.11493096e-05 -7.56188343e-06 1.87111930e-05] w = [-0.2456947 0.71349727 2.53219743] w\_new= [-0.24569481 0.71349719 2.53219761]

gradient= [-1.11366681e-05 -7.55360052e-06 1.86902686e-05] w = [-0.24569481 0.71349719 2.53219761] w\_new= [-0.24569492 0.71349712 2.5321978 ]

gradient= [-1.11240410e-05 -7.54532661e-06 1.86693676e-05] w = [-0.24569492 0.71349712 2.5321978 ] w\_new= [-0.24569503 0.71349704 2.53219799]

gradient= [-1.11114283e-05 -7.53706170e-06 1.86484900e-05] w = [-0.24569503 0.71349704 2.53219799] w\_new= [-0.24569514 0.71349697 2.53219817]

gradient= [-1.10988299e-05 -7.52880577e-06 1.86276357e-05] w = [-0.24569514 0.71349697 2.53219817] w\_new= [-0.24569525 0.71349689 2.53219836]

gradient= [-1.10862459e-05 -7.52055882e-06 1.86068047e-05] w = [-0.24569525 0.71349689 2.53219836] w\_new= [-0.24569536 0.71349682 2.53219855]

gradient= [-1.10736762e-05 -7.51232084e-06 1.85859971e-05] w = [-0.24569536 0.71349682 2.53219855] w\_new= [-0.24569547 0.71349674 2.53219873]

gradient= [-1.10611208e-05 -7.50409182e-06 1.85652127e-05] w = [-0.24569547 0.71349674 2.53219873] w\_new= [-0.24569559 0.71349667 2.53219892]

gradient= [-1.10485798e-05 -7.49587174e-06 1.85444515e-05] w = [-0.24569559 0.71349667 2.53219892] w\_new= [-0.2456957 0.71349659 2.5321991 ]

gradient= [-1.10360529e-05 -7.48766060e-06 1.85237135e-05] w = [-0.2456957 0.71349659 2.5321991 ] w\_new= [-0.24569581 0.71349652 2.53219929]

gradient= [-1.10235404e-05 -7.47945839e-06 1.85029988e-05] w = [-0.24569581 0.71349652 2.53219929] w\_new= [-0.24569592 0.71349644 2.53219947]

gradient= [-1.10110421e-05 -7.47126511e-06 1.84823072e-05] w = [-0.24569592 0.71349644 2.53219947] w\_new= [-0.24569603 0.71349637 2.53219966]

gradient= [-1.09985580e-05 -7.46308073e-06 1.84616387e-05] w = [-0.24569603 0.71349637 2.53219966] w\_new= [-0.24569614 0.71349629 2.53219984]

gradient= [-1.09860881e-05 -7.45490525e-06 1.84409934e-05] w = [-0.24569614 0.71349629 2.53219984] w\_new= [-0.24569625 0.71349622 2.53220003]

gradient= [-1.09736324e-05 -7.44673866e-06 1.84203711e-05] w = [-0.24569625 0.71349622 2.53220003] w\_new= [-0.24569636 0.71349614 2.53220021]

gradient= [-1.09611909e-05 -7.43858095e-06 1.83997719e-05] w = [-0.24569636 0.71349614 2.53220021] w\_new= [-0.24569647 0.71349607 2.5322004 ]

gradient= [-1.09487636e-05 -7.43043211e-06 1.83791957e-05] w = [-0.24569647 0.71349607 2.5322004 ] w\_new= [-0.24569658 0.713496 2.53220058]

gradient= [-1.09363504e-05 -7.42229213e-06 1.83586426e-05] w = [-0.24569658 0.713496 2.53220058] w\_new= [-0.24569668 0.71349592 2.53220076]

gradient= [-1.09239514e-05 -7.41416101e-06 1.83381124e-05] w = [-0.24569668 0.71349592 2.53220076] w\_new= [-0.24569679 0.71349585 2.53220095]

gradient= [-1.09115664e-05 -7.40603873e-06 1.83176051e-05] w = [-0.24569679 0.71349585 2.53220095] w\_new= [-0.2456969 0.71349577 2.53220113]

gradient= [-1.08991956e-05 -7.39792528e-06 1.82971208e-05] w = [-0.2456969 0.71349577 2.53220113] w\_new= [-0.24569701 0.7134957 2.53220131]

gradient= [-1.08868388e-05 -7.38982066e-06 1.82766594e-05] w = [-0.24569701 0.7134957 2.53220131] w\_new= [-0.24569712 0.71349563 2.5322015 ]

gradient= [-1.08744961e-05 -7.38172484e-06 1.82562209e-05] w = [-0.24569712 0.71349563 2.5322015 ] w\_new= [-0.24569723 0.71349555 2.53220168]

gradient= [-1.08621674e-05 -7.37363784e-06 1.82358053e-05] w = [-0.24569723 0.71349555 2.53220168] w\_new= [-0.24569734 0.71349548 2.53220186]

gradient= [-1.08498528e-05 -7.36555963e-06 1.82154124e-05] w = [-0.24569734 0.71349548 2.53220186] w\_new= [-0.24569745 0.7134954 2.53220204]

gradient= [-1.08375522e-05 -7.35749020e-06 1.81950424e-05] w = [-0.24569745 0.7134954 2.53220204] w\_new= [-0.24569756 0.71349533 2.53220222]

gradient= [-1.08252656e-05 -7.34942955e-06 1.81746951e-05] w = [-0.24569756 0.71349533 2.53220222] w\_new= [-0.24569766 0.71349526 2.53220241]

gradient= [-1.08129930e-05 -7.34137767e-06 1.81543706e-05] w = [-0.24569766 0.71349526 2.53220241] w\_new= [-0.24569777 0.71349518 2.53220259]

gradient= [-1.08007343e-05 -7.33333455e-06 1.81340688e-05] w = [-0.24569777 0.71349518 2.53220259] w\_new= [-0.24569788 0.71349511 2.53220277]

gradient= [-1.07884896e-05 -7.32530017e-06 1.81137898e-05] w = [-0.24569788 0.71349511 2.53220277] w\_new= [-0.24569799 0.71349504 2.53220295]

gradient= [-1.07762588e-05 -7.31727453e-06 1.80935334e-05] w = [-0.24569799 0.71349504 2.53220295] w\_new= [-0.2456981 0.71349496 2.53220313]

gradient= [-1.07640420e-05 -7.30925762e-06 1.80732996e-05] w = [-0.2456981 0.71349496 2.53220313] w\_new= [-0.2456982 0.71349489 2.53220331]

gradient= [-1.07518391e-05 -7.30124943e-06 1.80530885e-05] w = [-0.2456982 0.71349489 2.53220331] w\_new= [-0.24569831 0.71349482 2.53220349]

gradient= [-1.07396500e-05 -7.29324995e-06 1.80329000e-05] w = [-0.24569831 0.71349482 2.53220349] w\_new= [-0.24569842 0.71349474 2.53220367]

gradient= [-1.07274748e-05 -7.28525917e-06 1.80127340e-05] w = [-0.24569842 0.71349474 2.53220367] w\_new= [-0.24569852 0.71349467 2.53220385]

gradient= [-1.07153135e-05 -7.27727709e-06 1.79925906e-05] w = [-0.24569852 0.71349467 2.53220385] w\_new= [-0.24569863 0.7134946 2.53220403]

gradient= [-1.07031660e-05 -7.26930368e-06 1.79724697e-05] w = [-0.24569863 0.7134946 2.53220403] w\_new= [-0.24569874 0.71349453 2.53220421]

gradient= [-1.06910324e-05 -7.26133895e-06 1.79523713e-05] w = [-0.24569874 0.71349453 2.53220421] w\_new= [-0.24569885 0.71349445 2.53220439]

gradient= [-1.06789125e-05 -7.25338288e-06 1.79322954e-05] w = [-0.24569885 0.71349445 2.53220439] w\_new= [-0.24569895 0.71349438 2.53220457]

gradient= [-1.06668065e-05 -7.24543546e-06 1.79122419e-05] w = [-0.24569895 0.71349438 2.53220457] w\_new= [-0.24569906 0.71349431 2.53220475]

gradient= [-1.06547142e-05 -7.23749669e-06 1.78922109e-05] w = [-0.24569906 0.71349431 2.53220475] w\_new= [-0.24569917 0.71349424 2.53220493]

gradient= [-1.06426357e-05 -7.22956656e-06 1.78722023e-05] w = [-0.24569917 0.71349424 2.53220493] w\_new= [-0.24569927 0.71349416 2.53220511]

gradient= [-1.06305709e-05 -7.22164505e-06 1.78522160e-05] w = [-0.24569927 0.71349416 2.53220511] w\_new= [-0.24569938 0.71349409 2.53220529]

gradient= [-1.06185199e-05 -7.21373216e-06 1.78322521e-05] w = [-0.24569938 0.71349409 2.53220529] w\_new= [-0.24569948 0.71349402 2.53220547]

gradient= [-1.06064826e-05 -7.20582788e-06 1.78123105e-05] w = [-0.24569948 0.71349402 2.53220547] w\_new= [-0.24569959 0.71349395 2.53220564]

gradient= [-1.05944590e-05 -7.19793219e-06 1.77923912e-05] w = [-0.24569959 0.71349395 2.53220564] w\_new= [-0.2456997 0.71349388 2.53220582]

gradient= [-1.05824490e-05 -7.19004510e-06 1.77724941e-05] w = [-0.2456997 0.71349388 2.53220582] w\_new= [-0.2456998 0.7134938 2.532206 ]

gradient= [-1.05704528e-05 -7.18216658e-06 1.77526193e-05] w = [-0.2456998 0.7134938 2.532206 ] w\_new= [-0.24569991 0.71349373 2.53220618]

gradient= [-1.05584702e-05 -7.17429663e-06 1.77327668e-05] w = [-0.24569991 0.71349373 2.53220618] w\_new= [-0.24570001 0.71349366 2.53220635]

gradient= [-1.05465012e-05 -7.16643525e-06 1.77129364e-05] w = [-0.24570001 0.71349366 2.53220635] w\_new= [-0.24570012 0.71349359 2.53220653]

gradient= [-1.05345458e-05 -7.15858242e-06 1.76931282e-05] w = [-0.24570012 0.71349359 2.53220653] w\_new= [-0.24570022 0.71349352 2.53220671]

gradient= [-1.05226041e-05 -7.15073813e-06 1.76733422e-05] w = [-0.24570022 0.71349352 2.53220671] w\_new= [-0.24570033 0.71349345 2.53220688]

gradient= [-1.05106759e-05 -7.14290237e-06 1.76535783e-05] w = [-0.24570033 0.71349345 2.53220688] w\_new= [-0.24570044 0.71349337 2.53220706]

gradient= [-1.04987613e-05 -7.13507514e-06 1.76338365e-05] w = [-0.24570044 0.71349337 2.53220706] w\_new= [-0.24570054 0.7134933 2.53220724]

gradient= [-1.04868603e-05 -7.12725642e-06 1.76141167e-05] w = [-0.24570054 0.7134933 2.53220724] w\_new= [-0.24570065 0.71349323 2.53220741]

gradient= [-1.04749728e-05 -7.11944622e-06 1.75944190e-05] w = [-0.24570065 0.71349323 2.53220741] w\_new= [-0.24570075 0.71349316 2.53220759]

gradient= [-1.04630989e-05 -7.11164450e-06 1.75747434e-05] w = [-0.24570075 0.71349316 2.53220759] w\_new= [-0.24570085 0.71349309 2.53220777]

gradient= [-1.04512384e-05 -7.10385128e-06 1.75550897e-05] w = [-0.24570085 0.71349309 2.53220777] w\_new= [-0.24570096 0.71349302 2.53220794]

gradient= [-1.04393915e-05 -7.09606653e-06 1.75354580e-05] w = [-0.24570096 0.71349302 2.53220794] w\_new= [-0.24570106 0.71349295 2.53220812]

gradient= [-1.04275580e-05 -7.08829026e-06 1.75158483e-05] w = [-0.24570106 0.71349295 2.53220812] w\_new= [-0.24570117 0.71349288 2.53220829]

gradient= [-1.04157380e-05 -7.08052244e-06 1.74962605e-05] w = [-0.24570117 0.71349288 2.53220829] w\_new= [-0.24570127 0.71349281 2.53220847]

gradient= [-1.04039315e-05 -7.07276308e-06 1.74766946e-05] w = [-0.24570127 0.71349281 2.53220847] w\_new= [-0.24570138 0.71349273 2.53220864]

gradient= [-1.03921384e-05 -7.06501215e-06 1.74571505e-05] w = [-0.24570138 0.71349273 2.53220864] w\_new= [-0.24570148 0.71349266 2.53220882]

gradient= [-1.03803587e-05 -7.05726966e-06 1.74376284e-05] w = [-0.24570148 0.71349266 2.53220882] w\_new= [-0.24570158 0.71349259 2.53220899]

gradient= [-1.03685924e-05 -7.04953560e-06 1.74181280e-05] w = [-0.24570158 0.71349259 2.53220899] w\_new= [-0.24570169 0.71349252 2.53220916]

gradient= [-1.03568395e-05 -7.04180995e-06 1.73986495e-05] w = [-0.24570169 0.71349252 2.53220916] w\_new= [-0.24570179 0.71349245 2.53220934]

gradient= [-1.03451000e-05 -7.03409271e-06 1.73791927e-05] w = [-0.24570179 0.71349245 2.53220934] w\_new= [-0.24570189 0.71349238 2.53220951]

gradient= [-1.03333738e-05 -7.02638386e-06 1.73597577e-05] w = [-0.24570189 0.71349238 2.53220951] w\_new= [-0.245702 0.71349231 2.53220969]

gradient= [-1.03216610e-05 -7.01868340e-06 1.73403444e-05] w = [-0.245702 0.71349231 2.53220969] w\_new= [-0.2457021 0.71349224 2.53220986]

gradient= [-1.03099615e-05 -7.01099132e-06 1.73209528e-05] w = [-0.2457021 0.71349224 2.53220986] w\_new= [-0.2457022 0.71349217 2.53221003]

gradient= [-1.02982753e-05 -7.00330761e-06 1.73015830e-05] w = [-0.2457022 0.71349217 2.53221003] w\_new= [-0.24570231 0.7134921 2.53221021]

gradient= [-1.02866025e-05 -6.99563226e-06 1.72822347e-05] w = [-0.24570231 0.7134921 2.53221021] w\_new= [-0.24570241 0.71349203 2.53221038]

gradient= [-1.02749429e-05 -6.98796526e-06 1.72629081e-05] w = [-0.24570241 0.71349203 2.53221038] w\_new= [-0.24570251 0.71349196 2.53221055]

gradient= [-1.02632965e-05 -6.98030661e-06 1.72436031e-05] w = [-0.24570251 0.71349196 2.53221055] w\_new= [-0.24570262 0.71349189 2.53221072]

gradient= [-1.02516635e-05 -6.97265628e-06 1.72243197e-05] w = [-0.24570262 0.71349189 2.53221072] w\_new= [-0.24570272 0.71349182 2.5322109 ]

gradient= [-1.02400436e-05 -6.96501429e-06 1.72050579e-05] w = [-0.24570272 0.71349182 2.5322109 ] w\_new= [-0.24570282 0.71349175 2.53221107]

gradient= [-1.02284370e-05 -6.95738061e-06 1.71858176e-05] w = [-0.24570282 0.71349175 2.53221107] w\_new= [-0.24570292 0.71349168 2.53221124]

gradient= [-1.02168436e-05 -6.94975523e-06 1.71665988e-05] w = [-0.24570292 0.71349168 2.53221124] w\_new= [-0.24570302 0.71349161 2.53221141]

gradient= [-1.02052634e-05 -6.94213816e-06 1.71474015e-05] w = [-0.24570302 0.71349161 2.53221141] w\_new= [-0.24570313 0.71349154 2.53221158]

gradient= [-1.01936963e-05 -6.93452937e-06 1.71282257e-05] w = [-0.24570313 0.71349154 2.53221158] w\_new= [-0.24570323 0.71349147 2.53221175]

gradient= [-1.01821425e-05 -6.92692886e-06 1.71090713e-05] w = [-0.24570323 0.71349147 2.53221175] w\_new= [-0.24570333 0.71349141 2.53221192]

gradient= [-1.01706017e-05 -6.91933663e-06 1.70899383e-05] w = [-0.24570333 0.71349141 2.53221192] w\_new= [-0.24570343 0.71349134 2.5322121 ]

gradient= [-1.01590741e-05 -6.91175265e-06 1.70708268e-05] w = [-0.24570343 0.71349134 2.5322121 ] w\_new= [-0.24570353 0.71349127 2.53221227]

gradient= [-1.01475596e-05 -6.90417693e-06 1.70517366e-05] w = [-0.24570353 0.71349127 2.53221227] w\_new= [-0.24570364 0.7134912 2.53221244]

gradient= [-1.01360582e-05 -6.89660946e-06 1.70326677e-05] w = [-0.24570364 0.7134912 2.53221244] w\_new= [-0.24570374 0.71349113 2.53221261]

gradient= [-1.01245699e-05 -6.88905022e-06 1.70136202e-05] w = [-0.24570374 0.71349113 2.53221261] w\_new= [-0.24570384 0.71349106 2.53221278]

gradient= [-1.01130947e-05 -6.88149920e-06 1.69945939e-05] w = [-0.24570384 0.71349106 2.53221278] w\_new= [-0.24570394 0.71349099 2.53221295]

gradient= [-1.01016325e-05 -6.87395641e-06 1.69755890e-05] w = [-0.24570394 0.71349099 2.53221295] w\_new= [-0.24570404 0.71349092 2.53221312]

gradient= [-1.00901834e-05 -6.86642182e-06 1.69566052e-05] w = [-0.24570404 0.71349092 2.53221312] w\_new= [-0.24570414 0.71349085 2.53221329]

gradient= [-1.00787473e-05 -6.85889543e-06 1.69376428e-05] w = [-0.24570414 0.71349085 2.53221329] w\_new= [-0.24570424 0.71349079 2.53221346]

gradient= [-1.00673242e-05 -6.85137723e-06 1.69187015e-05] w = [-0.24570424 0.71349079 2.53221346] w\_new= [-0.24570434 0.71349072 2.53221363]

gradient= [-1.00559141e-05 -6.84386722e-06 1.68997814e-05] w = [-0.24570434 0.71349072 2.53221363] w\_new= [-0.24570444 0.71349065 2.53221379]

gradient= [-1.00445170e-05 -6.83636538e-06 1.68808824e-05] w = [-0.24570444 0.71349065 2.53221379] w\_new= [-0.24570454 0.71349058 2.53221396]

gradient= [-1.00331329e-05 -6.82887171e-06 1.68620046e-05] w = [-0.24570454 0.71349058 2.53221396] w\_new= [-0.24570464 0.71349051 2.53221413]

gradient= [-1.00217617e-05 -6.82138619e-06 1.68431479e-05] w = [-0.24570464 0.71349051 2.53221413] w\_new= [-0.24570474 0.71349044 2.5322143 ]

gradient= [-1.00104034e-05 -6.81390882e-06 1.68243123e-05] w = [-0.24570474 0.71349044 2.5322143 ] w\_new= [-0.24570484 0.71349038 2.53221447]

gradient= [-9.99905811e-06 -6.80643958e-06 1.68054977e-05] w = [-0.24570484 0.71349038 2.53221447] w\_new= [-0.24570494 0.71349031 2.53221464]

gradient= [-9.98772569e-06 -6.79897848e-06 1.67867042e-05] w = [-0.24570494 0.71349031 2.53221464] w\_new= [-0.24570504 0.71349024 2.5322148 ]

gradient= [-9.97640616e-06 -6.79152549e-06 1.67679317e-05] w = [-0.24570504 0.71349024 2.5322148 ] w\_new= [-0.24570514 0.71349017 2.53221497]

gradient= [-9.96509951e-06 -6.78408062e-06 1.67491801e-05] w = [-0.24570514 0.71349017 2.53221497] w\_new= [-0.24570524 0.7134901 2.53221514]

gradient= [-9.95380572e-06 -6.77664386e-06 1.67304496e-05] w = [-0.24570524 0.7134901 2.53221514] w\_new= [-0.24570534 0.71349004 2.53221531]

gradient= [-9.94252478e-06 -6.76921518e-06 1.67117400e-05] w = [-0.24570534 0.71349004 2.53221531] w\_new= [-0.24570544 0.71348997 2.53221547]

gradient= [-9.93125668e-06 -6.76179460e-06 1.66930513e-05] w = [-0.24570544 0.71348997 2.53221547] w\_new= [-0.24570554 0.7134899 2.53221564]

gradient= [-9.92000140e-06 -6.75438209e-06 1.66743835e-05] w = [-0.24570554 0.7134899 2.53221564] w\_new= [-0.24570564 0.71348983 2.53221581]

gradient= [-9.90875892e-06 -6.74697765e-06 1.66557366e-05] w = [-0.24570564 0.71348983 2.53221581] w\_new= [-0.24570574 0.71348977 2.53221597]

gradient= [-9.89752923e-06 -6.73958126e-06 1.66371105e-05] w = [-0.24570574 0.71348977 2.53221597] w\_new= [-0.24570584 0.7134897 2.53221614]

gradient= [-9.88631232e-06 -6.73219293e-06 1.66185053e-05] w = [-0.24570584 0.7134897 2.53221614] w\_new= [-0.24570594 0.71348963 2.53221631]

gradient= [-9.87510817e-06 -6.72481265e-06 1.65999208e-05] w = [-0.24570594 0.71348963 2.53221631] w\_new= [-0.24570604 0.71348956 2.53221647]

gradient= [-9.86391676e-06 -6.71744039e-06 1.65813572e-05] w = [-0.24570604 0.71348956 2.53221647] w\_new= [-0.24570613 0.7134895 2.53221664]

gradient= [-9.85273809e-06 -6.71007616e-06 1.65628143e-05] w = [-0.24570613 0.7134895 2.53221664] w\_new= [-0.24570623 0.71348943 2.5322168 ]

gradient= [-9.84157214e-06 -6.70271995e-06 1.65442921e-05] w = [-0.24570623 0.71348943 2.5322168 ] w\_new= [-0.24570633 0.71348936 2.53221697]

gradient= [-9.83041889e-06 -6.69537175e-06 1.65257906e-05] w = [-0.24570633 0.71348936 2.53221697] w\_new= [-0.24570643 0.7134893 2.53221713]

gradient= [-9.81927832e-06 -6.68803154e-06 1.65073099e-05] w = [-0.24570643 0.7134893 2.53221713] w\_new= [-0.24570653 0.71348923 2.5322173 ]

gradient= [-9.80815044e-06 -6.68069933e-06 1.64888498e-05] w = [-0.24570653 0.71348923 2.5322173 ] w\_new= [-0.24570663 0.71348916 2.53221746]

gradient= [-9.79703521e-06 -6.67337509e-06 1.64704103e-05] w = [-0.24570663 0.71348916 2.53221746] w\_new= [-0.24570672 0.7134891 2.53221763]

gradient= [-9.78593262e-06 -6.66605883e-06 1.64519915e-05] w = [-0.24570672 0.7134891 2.53221763] w\_new= [-0.24570682 0.71348903 2.53221779]

gradient= [-9.77484267e-06 -6.65875054e-06 1.64335932e-05] w = [-0.24570682 0.71348903 2.53221779] w\_new= [-0.24570692 0.71348896 2.53221796]

gradient= [-9.76376533e-06 -6.65145020e-06 1.64152155e-05] w = [-0.24570692 0.71348896 2.53221796] w\_new= [-0.24570702 0.7134889 2.53221812]

gradient= [-9.75270059e-06 -6.64415781e-06 1.63968584e-05] w = [-0.24570702 0.7134889 2.53221812] w\_new= [-0.24570712 0.71348883 2.53221829]

gradient= [-9.74164844e-06 -6.63687336e-06 1.63785218e-05] w = [-0.24570712 0.71348883 2.53221829] w\_new= [-0.24570721 0.71348876 2.53221845]

gradient= [-9.73060887e-06 -6.62959683e-06 1.63602057e-05] w = [-0.24570721 0.71348876 2.53221845] w\_new= [-0.24570731 0.7134887 2.53221861]

gradient= [-9.71958185e-06 -6.62232823e-06 1.63419101e-05] w = [-0.24570731 0.7134887 2.53221861] w\_new= [-0.24570741 0.71348863 2.53221878]

gradient= [-9.70856738e-06 -6.61506755e-06 1.63236349e-05] w = [-0.24570741 0.71348863 2.53221878] w\_new= [-0.2457075 0.71348856 2.53221894]

gradient= [-9.69756543e-06 -6.60781477e-06 1.63053802e-05] w = [-0.2457075 0.71348856 2.53221894] w\_new= [-0.2457076 0.7134885 2.5322191]

gradient= [-9.68657601e-06 -6.60056988e-06 1.62871459e-05] w = [-0.2457076 0.7134885 2.5322191] w\_new= [-0.2457077 0.71348843 2.53221927]

gradient= [-9.67559908e-06 -6.59333288e-06 1.62689320e-05] w = [-0.2457077 0.71348843 2.53221927] w\_new= [-0.24570779 0.71348837 2.53221943]

gradient= [-9.66463464e-06 -6.58610377e-06 1.62507384e-05] w = [-0.24570779 0.71348837 2.53221943] w\_new= [-0.24570789 0.7134883 2.53221959]

gradient= [-9.65368267e-06 -6.57888252e-06 1.62325652e-05] w = [-0.24570789 0.7134883 2.53221959] w\_new= [-0.24570799 0.71348823 2.53221975]

gradient= [-9.64274316e-06 -6.57166913e-06 1.62144123e-05] w = [-0.24570799 0.71348823 2.53221975] w\_new= [-0.24570808 0.71348817 2.53221992]

gradient= [-9.63181610e-06 -6.56446360e-06 1.61962797e-05] w = [-0.24570808 0.71348817 2.53221992] w\_new= [-0.24570818 0.7134881 2.53222008]

gradient= [-9.62090146e-06 -6.55726592e-06 1.61781674e-05] w = [-0.24570818 0.7134881 2.53222008] w\_new= [-0.24570828 0.71348804 2.53222024]

gradient= [-9.60999924e-06 -6.55007607e-06 1.61600753e-05] w = [-0.24570828 0.71348804 2.53222024] w\_new= [-0.24570837 0.71348797 2.5322204 ]

gradient= [-9.59910942e-06 -6.54289405e-06 1.61420035e-05] w = [-0.24570837 0.71348797 2.5322204 ] w\_new= [-0.24570847 0.71348791 2.53222056]

gradient= [-9.58823199e-06 -6.53571985e-06 1.61239518e-05] w = [-0.24570847 0.71348791 2.53222056] w\_new= [-0.24570856 0.71348784 2.53222072]

gradient= [-9.57736694e-06 -6.52855346e-06 1.61059204e-05] w = [-0.24570856 0.71348784 2.53222072] w\_new= [-0.24570866 0.71348778 2.53222089]

gradient= [-9.56651424e-06 -6.52139487e-06 1.60879091e-05] w = [-0.24570866 0.71348778 2.53222089] w\_new= [-0.24570876 0.71348771 2.53222105]

gradient= [-9.55567388e-06 -6.51424408e-06 1.60699180e-05] w = [-0.24570876 0.71348771 2.53222105] w\_new= [-0.24570885 0.71348765 2.53222121]

gradient= [-9.54484586e-06 -6.50710108e-06 1.60519469e-05] w = [-0.24570885 0.71348765 2.53222121] w\_new= [-0.24570895 0.71348758 2.53222137]

gradient= [-9.53403015e-06 -6.49996585e-06 1.60339960e-05] w = [-0.24570895 0.71348758 2.53222137] w\_new= [-0.24570904 0.71348752 2.53222153]

gradient= [-9.52322675e-06 -6.49283839e-06 1.60160651e-05] w = [-0.24570904 0.71348752 2.53222153] w\_new= [-0.24570914 0.71348745 2.53222169]

gradient= [-9.51243563e-06 -6.48571869e-06 1.59981543e-05] w = [-0.24570914 0.71348745 2.53222169] w\_new= [-0.24570923 0.71348739 2.53222185]

gradient= [-9.50165679e-06 -6.47860675e-06 1.59802635e-05] w = [-0.24570923 0.71348739 2.53222185] w\_new= [-0.24570933 0.71348732 2.53222201]

gradient= [-9.49089021e-06 -6.47150255e-06 1.59623928e-05] w = [-0.24570933 0.71348732 2.53222201] w\_new= [-0.24570942 0.71348726 2.53222217]

gradient= [-9.48013588e-06 -6.46440609e-06 1.59445420e-05] w = [-0.24570942 0.71348726 2.53222217] w\_new= [-0.24570952 0.71348719 2.53222233]

gradient= [-9.46939378e-06 -6.45731735e-06 1.59267111e-05] w = [-0.24570952 0.71348719 2.53222233] w\_new= [-0.24570961 0.71348713 2.53222249]

gradient= [-9.45866389e-06 -6.45023634e-06 1.59089002e-05] w = [-0.24570961 0.71348713 2.53222249] w\_new= [-0.24570971 0.71348706 2.53222264]

gradient= [-9.44794622e-06 -6.44316303e-06 1.58911093e-05] w = [-0.24570971 0.71348706 2.53222264] w\_new= [-0.2457098 0.713487 2.5322228]

gradient= [-9.43724073e-06 -6.43609743e-06 1.58733382e-05] w = [-0.2457098 0.713487 2.5322228] w\_new= [-0.2457099 0.71348693 2.53222296]

gradient= [-9.42654742e-06 -6.42903952e-06 1.58555869e-05] w = [-0.2457099 0.71348693 2.53222296] w\_new= [-0.24570999 0.71348687 2.53222312]

gradient= [-9.41586627e-06 -6.42198930e-06 1.58378556e-05] w = [-0.24570999 0.71348687 2.53222312] w\_new= [-0.24571008 0.7134868 2.53222328]

gradient= [-9.40519727e-06 -6.41494676e-06 1.58201440e-05] w = [-0.24571008 0.7134868 2.53222328] w\_new= [-0.24571018 0.71348674 2.53222344]

gradient= [-9.39454040e-06 -6.40791189e-06 1.58024523e-05] w = [-0.24571018 0.71348674 2.53222344] w\_new= [-0.24571027 0.71348668 2.5322236 ]

gradient= [-9.38389566e-06 -6.40088467e-06 1.57847803e-05] w = [-0.24571027 0.71348668 2.5322236 ] w\_new= [-0.24571037 0.71348661 2.53222375]

gradient= [-9.37326302e-06 -6.39386511e-06 1.57671281e-05] w = [-0.24571037 0.71348661 2.53222375] w\_new= [-0.24571046 0.71348655 2.53222391]

gradient= [-9.36264248e-06 -6.38685320e-06 1.57494957e-05] w = [-0.24571046 0.71348655 2.53222391] w\_new= [-0.24571055 0.71348648 2.53222407]

gradient= [-9.35203401e-06 -6.37984892e-06 1.57318829e-05] w = [-0.24571055 0.71348648 2.53222407] w\_new= [-0.24571065 0.71348642 2.53222423]

gradient= [-9.34143761e-06 -6.37285227e-06 1.57142899e-05] w = [-0.24571065 0.71348642 2.53222423] w\_new= [-0.24571074 0.71348636 2.53222438]

gradient= [-9.33085327e-06 -6.36586324e-06 1.56967165e-05] w = [-0.24571074 0.71348636 2.53222438] w\_new= [-0.24571083 0.71348629 2.53222454]

gradient= [-9.32028096e-06 -6.35888182e-06 1.56791628e-05] w = [-0.24571083 0.71348629 2.53222454] w\_new= [-0.24571093 0.71348623 2.5322247 ]

gradient= [-9.30972067e-06 -6.35190801e-06 1.56616287e-05] w = [-0.24571093 0.71348623 2.5322247 ] w\_new= [-0.24571102 0.71348617 2.53222485]

gradient= [-9.29917240e-06 -6.34494179e-06 1.56441142e-05] w = [-0.24571102 0.71348617 2.53222485] w\_new= [-0.24571111 0.7134861 2.53222501]

gradient= [-9.28863612e-06 -6.33798316e-06 1.56266193e-05] w = [-0.24571111 0.7134861 2.53222501] w\_new= [-0.24571121 0.71348604 2.53222517]

gradient= [-9.27811183e-06 -6.33103211e-06 1.56091439e-05] w = [-0.24571121 0.71348604 2.53222517] w\_new= [-0.2457113 0.71348598 2.53222532]

gradient= [-9.26759951e-06 -6.32408862e-06 1.55916881e-05] w = [-0.2457113 0.71348598 2.53222532] w\_new= [-0.24571139 0.71348591 2.53222548]

gradient= [-9.25709914e-06 -6.31715271e-06 1.55742518e-05] w = [-0.24571139 0.71348591 2.53222548] w\_new= [-0.24571148 0.71348585 2.53222563]

gradient= [-9.24661071e-06 -6.31022434e-06 1.55568351e-05] w = [-0.24571148 0.71348585 2.53222563] w\_new= [-0.24571158 0.71348579 2.53222579]

gradient= [-9.23613422e-06 -6.30330352e-06 1.55394377e-05] w = [-0.24571158 0.71348579 2.53222579] w\_new= [-0.24571167 0.71348572 2.53222594]

gradient= [-9.22566963e-06 -6.29639024e-06 1.55220599e-05] w = [-0.24571167 0.71348572 2.53222594] w\_new= [-0.24571176 0.71348566 2.5322261 ]

gradient= [-9.21521695e-06 -6.28948449e-06 1.55047014e-05] w = [-0.24571176 0.71348566 2.5322261 ] w\_new= [-0.24571185 0.7134856 2.53222626]

gradient= [-9.20477616e-06 -6.28258627e-06 1.54873624e-05] w = [-0.24571185 0.7134856 2.53222626] w\_new= [-0.24571195 0.71348554 2.53222641]

gradient= [-9.19434724e-06 -6.27569555e-06 1.54700428e-05] w = [-0.24571195 0.71348554 2.53222641] w\_new= [-0.24571204 0.71348547 2.53222656]

gradient= [-9.18393018e-06 -6.26881235e-06 1.54527425e-05] w = [-0.24571204 0.71348547 2.53222656] w\_new= [-0.24571213 0.71348541 2.53222672]

gradient= [-9.17352497e-06 -6.26193663e-06 1.54354616e-05] w = [-0.24571213 0.71348541 2.53222672] w\_new= [-0.24571222 0.71348535 2.53222687]

gradient= [-9.16313159e-06 -6.25506841e-06 1.54182000e-05] w = [-0.24571222 0.71348535 2.53222687] w\_new= [-0.24571231 0.71348528 2.53222703]

gradient= [-9.15275003e-06 -6.24820768e-06 1.54009577e-05] w = [-0.24571231 0.71348528 2.53222703] w\_new= [-0.2457124 0.71348522 2.53222718]

gradient= [-9.14238028e-06 -6.24135441e-06 1.53837347e-05] w = [-0.2457124 0.71348522 2.53222718] w\_new= [-0.2457125 0.71348516 2.53222734]

gradient= [-9.13202232e-06 -6.23450861e-06 1.53665309e-05] w = [-0.2457125 0.71348516 2.53222734] w\_new= [-0.24571259 0.7134851 2.53222749]

gradient= [-9.12167614e-06 -6.22767027e-06 1.53493464e-05] w = [-0.24571259 0.7134851 2.53222749] w\_new= [-0.24571268 0.71348504 2.53222764]

gradient= [-9.11134172e-06 -6.22083937e-06 1.53321811e-05] w = [-0.24571268 0.71348504 2.53222764] w\_new= [-0.24571277 0.71348497 2.5322278 ]

gradient= [-9.10101906e-06 -6.21401592e-06 1.53150350e-05] w = [-0.24571277 0.71348497 2.5322278 ] w\_new= [-0.24571286 0.71348491 2.53222795]

gradient= [-9.09070814e-06 -6.20719990e-06 1.52979080e-05] w = [-0.24571286 0.71348491 2.53222795] w\_new= [-0.24571295 0.71348485 2.5322281 ]

gradient= [-9.08040894e-06 -6.20039131e-06 1.52808002e-05] w = [-0.24571295 0.71348485 2.5322281 ] w\_new= [-0.24571304 0.71348479 2.53222826]

gradient= [-9.07012146e-06 -6.19359013e-06 1.52637116e-05] w = [-0.24571304 0.71348479 2.53222826] w\_new= [-0.24571313 0.71348472 2.53222841]

gradient= [-9.05984567e-06 -6.18679636e-06 1.52466420e-05] w = [-0.24571313 0.71348472 2.53222841] w\_new= [-0.24571322 0.71348466 2.53222856]

gradient= [-9.04958157e-06 -6.18001000e-06 1.52295916e-05] w = [-0.24571322 0.71348466 2.53222856] w\_new= [-0.24571331 0.7134846 2.53222871]

gradient= [-9.03932914e-06 -6.17323102e-06 1.52125602e-05] w = [-0.24571331 0.7134846 2.53222871] w\_new= [-0.2457134 0.71348454 2.53222886]

gradient= [-9.02908837e-06 -6.16645943e-06 1.51955478e-05] w = [-0.2457134 0.71348454 2.53222886] w\_new= [-0.24571349 0.71348448 2.53222902]

gradient= [-9.01885925e-06 -6.15969522e-06 1.51785545e-05] w = [-0.24571349 0.71348448 2.53222902] w\_new= [-0.24571358 0.71348442 2.53222917]

gradient= [-9.00864176e-06 -6.15293838e-06 1.51615801e-05] w = [-0.24571358 0.71348442 2.53222917] w\_new= [-0.24571367 0.71348435 2.53222932]

gradient= [-8.99843588e-06 -6.14618890e-06 1.51446248e-05] w = [-0.24571367 0.71348435 2.53222932] w\_new= [-0.24571376 0.71348429 2.53222947]

gradient= [-8.98824162e-06 -6.13944677e-06 1.51276884e-05] w = [-0.24571376 0.71348429 2.53222947] w\_new= [-0.24571385 0.71348423 2.53222962]

gradient= [-8.97805894e-06 -6.13271199e-06 1.51107709e-05] w = [-0.24571385 0.71348423 2.53222962] w\_new= [-0.24571394 0.71348417 2.53222977]

gradient= [-8.96788785e-06 -6.12598455e-06 1.50938724e-05] w = [-0.24571394 0.71348417 2.53222977] w\_new= [-0.24571403 0.71348411 2.53222992]

gradient= [-8.95772832e-06 -6.11926443e-06 1.50769928e-05] w = [-0.24571403 0.71348411 2.53222992] w\_new= [-0.24571412 0.71348405 2.53223008]

gradient= [-8.94758034e-06 -6.11255164e-06 1.50601320e-05] w = [-0.24571412 0.71348405 2.53223008] w\_new= [-0.24571421 0.71348399 2.53223023]

gradient= [-8.93744390e-06 -6.10584616e-06 1.50432901e-05] w = [-0.24571421 0.71348399 2.53223023] w\_new= [-0.2457143 0.71348393 2.53223038]

gradient= [-8.92731899e-06 -6.09914799e-06 1.50264670e-05] w = [-0.2457143 0.71348393 2.53223038] w\_new= [-0.24571439 0.71348386 2.53223053]

gradient= [-8.91720559e-06 -6.09245712e-06 1.50096627e-05] w = [-0.24571439 0.71348386 2.53223053] w\_new= [-0.24571448 0.7134838 2.53223068]

gradient= [-8.90710369e-06 -6.08577353e-06 1.49928772e-05] w = [-0.24571448 0.7134838 2.53223068] w\_new= [-0.24571457 0.71348374 2.53223083]

gradient= [-8.89701328e-06 -6.07909723e-06 1.49761105e-05] w = [-0.24571457 0.71348374 2.53223083] w\_new= [-0.24571466 0.71348368 2.53223098]

gradient= [-8.88693434e-06 -6.07242820e-06 1.49593625e-05] w = [-0.24571466 0.71348368 2.53223098] w\_new= [-0.24571475 0.71348362 2.53223113]

gradient= [-8.87686686e-06 -6.06576644e-06 1.49426333e-05] w = [-0.24571475 0.71348362 2.53223113] w\_new= [-0.24571484 0.71348356 2.53223128]

gradient= [-8.86681083e-06 -6.05911193e-06 1.49259228e-05] w = [-0.24571484 0.71348356 2.53223128] w\_new= [-0.24571493 0.7134835 2.53223142]

gradient= [-8.85676624e-06 -6.05246468e-06 1.49092309e-05] w = [-0.24571493 0.7134835 2.53223142] w\_new= [-0.24571501 0.71348344 2.53223157]

gradient= [-8.84673306e-06 -6.04582467e-06 1.48925577e-05] w = [-0.24571501 0.71348344 2.53223157] w\_new= [-0.2457151 0.71348338 2.53223172]

gradient= [-8.83671130e-06 -6.03919190e-06 1.48759032e-05] w = [-0.2457151 0.71348338 2.53223172] w\_new= [-0.24571519 0.71348332 2.53223187]

gradient= [-8.82670093e-06 -6.03256635e-06 1.48592673e-05] w = [-0.24571519 0.71348332 2.53223187] w\_new= [-0.24571528 0.71348326 2.53223202]

gradient= [-8.81670194e-06 -6.02594803e-06 1.48426500e-05] w = [-0.24571528 0.71348326 2.53223202] w\_new= [-0.24571537 0.7134832 2.53223217]

gradient= [-8.80671432e-06 -6.01933691e-06 1.48260512e-05] w = [-0.24571537 0.7134832 2.53223217] w\_new= [-0.24571545 0.71348314 2.53223232]

gradient= [-8.79673806e-06 -6.01273300e-06 1.48094711e-05] w = [-0.24571545 0.71348314 2.53223232] w\_new= [-0.24571554 0.71348308 2.53223246]

gradient= [-8.78677314e-06 -6.00613629e-06 1.47929094e-05] w = [-0.24571554 0.71348308 2.53223246] w\_new= [-0.24571563 0.71348302 2.53223261]

gradient= [-8.77681955e-06 -5.99954676e-06 1.47763663e-05] w = [-0.24571563 0.71348302 2.53223261] w\_new= [-0.24571572 0.71348296 2.53223276]

gradient= [-8.76687728e-06 -5.99296441e-06 1.47598417e-05] w = [-0.24571572 0.71348296 2.53223276] w\_new= [-0.24571581 0.7134829 2.53223291]

gradient= [-8.75694631e-06 -5.98638924e-06 1.47433355e-05] w = [-0.24571581 0.7134829 2.53223291] w\_new= [-0.24571589 0.71348284 2.53223306]

gradient= [-8.74702663e-06 -5.97982123e-06 1.47268479e-05] w = [-0.24571589 0.71348284 2.53223306] w\_new= [-0.24571598 0.71348278 2.5322332 ]

gradient= [-8.73711823e-06 -5.97326038e-06 1.47103786e-05] w = [-0.24571598 0.71348278 2.5322332 ] w\_new= [-0.24571607 0.71348272 2.53223335]

gradient= [-8.72722110e-06 -5.96670668e-06 1.46939278e-05] w = [-0.24571607 0.71348272 2.53223335] w\_new= [-0.24571616 0.71348266 2.5322335 ]

gradient= [-8.71733522e-06 -5.96016013e-06 1.46774953e-05] w = [-0.24571616 0.71348266 2.5322335 ] w\_new= [-0.24571624 0.7134826 2.53223364]

gradient= [-8.70746058e-06 -5.95362070e-06 1.46610813e-05] w = [-0.24571624 0.7134826 2.53223364] w\_new= [-0.24571633 0.71348254 2.53223379]

gradient= [-8.69759717e-06 -5.94708841e-06 1.46446856e-05] w = [-0.24571633 0.71348254 2.53223379] w\_new= [-0.24571642 0.71348248 2.53223394]

gradient= [-8.68774497e-06 -5.94056323e-06 1.46283082e-05] w = [-0.24571642 0.71348248 2.53223394] w\_new= [-0.2457165 0.71348242 2.53223408]

gradient= [-8.67790398e-06 -5.93404516e-06 1.46119491e-05] w = [-0.2457165 0.71348242 2.53223408] w\_new= [-0.24571659 0.71348236 2.53223423]

gradient= [-8.66807417e-06 -5.92753420e-06 1.45956084e-05] w = [-0.24571659 0.71348236 2.53223423] w\_new= [-0.24571668 0.7134823 2.53223438]

gradient= [-8.65825554e-06 -5.92103033e-06 1.45792859e-05] w = [-0.24571668 0.7134823 2.53223438] w\_new= [-0.24571676 0.71348224 2.53223452]

gradient= [-8.64844807e-06 -5.91453355e-06 1.45629816e-05] w = [-0.24571676 0.71348224 2.53223452] w\_new= [-0.24571685 0.71348218 2.53223467]

gradient= [-8.63865175e-06 -5.90804385e-06 1.45466956e-05] w = [-0.24571685 0.71348218 2.53223467] w\_new= [-0.24571694 0.71348212 2.53223481]

gradient= [-8.62886657e-06 -5.90156123e-06 1.45304278e-05] w = [-0.24571694 0.71348212 2.53223481] w\_new= [-0.24571702 0.71348207 2.53223496]

gradient= [-8.61909252e-06 -5.89508567e-06 1.45141782e-05] w = [-0.24571702 0.71348207 2.53223496] w\_new= [-0.24571711 0.71348201 2.5322351 ]

gradient= [-8.60932958e-06 -5.88861716e-06 1.44979467e-05] w = [-0.24571711 0.71348201 2.5322351 ] w\_new= [-0.2457172 0.71348195 2.53223525]

gradient= [-8.59957773e-06 -5.88215571e-06 1.44817334e-05] w = [-0.2457172 0.71348195 2.53223525] w\_new= [-0.24571728 0.71348189 2.53223539]

gradient= [-8.58983698e-06 -5.87570130e-06 1.44655383e-05] w = [-0.24571728 0.71348189 2.53223539] w\_new= [-0.24571737 0.71348183 2.53223554]

gradient= [-8.58010730e-06 -5.86925393e-06 1.44493612e-05] w = [-0.24571737 0.71348183 2.53223554] w\_new= [-0.24571745 0.71348177 2.53223568]

gradient= [-8.57038867e-06 -5.86281358e-06 1.44332023e-05] w = [-0.24571745 0.71348177 2.53223568] w\_new= [-0.24571754 0.71348171 2.53223583]

gradient= [-8.56068110e-06 -5.85638025e-06 1.44170614e-05] w = [-0.24571754 0.71348171 2.53223583] w\_new= [-0.24571762 0.71348165 2.53223597]

gradient= [-8.55098457e-06 -5.84995393e-06 1.44009385e-05] w = [-0.24571762 0.71348165 2.53223597] w\_new= [-0.24571771 0.7134816 2.53223611]

gradient= [-8.54129906e-06 -5.84353462e-06 1.43848337e-05] w = [-0.24571771 0.7134816 2.53223611] w\_new= [-0.2457178 0.71348154 2.53223626]

gradient= [-8.53162456e-06 -5.83712231e-06 1.43687469e-05] w = [-0.2457178 0.71348154 2.53223626] w\_new= [-0.24571788 0.71348148 2.5322364 ]

gradient= [-8.52196105e-06 -5.83071698e-06 1.43526780e-05] w = [-0.24571788 0.71348148 2.5322364 ] w\_new= [-0.24571797 0.71348142 2.53223655]

gradient= [-8.51230854e-06 -5.82431864e-06 1.43366272e-05] w = [-0.24571797 0.71348142 2.53223655] w\_new= [-0.24571805 0.71348136 2.53223669]

gradient= [-8.50266700e-06 -5.81792727e-06 1.43205943e-05] w = [-0.24571805 0.71348136 2.53223669] w\_new= [-0.24571814 0.7134813 2.53223683]

gradient= [-8.49303641e-06 -5.81154286e-06 1.43045793e-05] w = [-0.24571814 0.7134813 2.53223683] w\_new= [-0.24571822 0.71348125 2.53223697]

gradient= [-8.48341678e-06 -5.80516542e-06 1.42885822e-05] w = [-0.24571822 0.71348125 2.53223697] w\_new= [-0.24571831 0.71348119 2.53223712]

gradient= [-8.47380808e-06 -5.79879493e-06 1.42726030e-05] w = [-0.24571831 0.71348119 2.53223712] w\_new= [-0.24571839 0.71348113 2.53223726]

gradient= [-8.46421031e-06 -5.79243138e-06 1.42566417e-05] w = [-0.24571839 0.71348113 2.53223726] w\_new= [-0.24571848 0.71348107 2.5322374 ]

gradient= [-8.45462345e-06 -5.78607477e-06 1.42406982e-05] w = [-0.24571848 0.71348107 2.5322374 ] w\_new= [-0.24571856 0.71348101 2.53223755]

gradient= [-8.44504748e-06 -5.77972509e-06 1.42247726e-05] w = [-0.24571856 0.71348101 2.53223755] w\_new= [-0.24571864 0.71348096 2.53223769]

gradient= [-8.43548240e-06 -5.77338233e-06 1.42088647e-05] w = [-0.24571864 0.71348096 2.53223769] w\_new= [-0.24571873 0.7134809 2.53223783]

gradient= [-8.42592820e-06 -5.76704648e-06 1.41929747e-05] w = [-0.24571873 0.7134809 2.53223783] w\_new= [-0.24571881 0.71348084 2.53223797]

gradient= [-8.41638485e-06 -5.76071754e-06 1.41771024e-05] w = [-0.24571881 0.71348084 2.53223797] w\_new= [-0.2457189 0.71348078 2.53223811]

gradient= [-8.40685236e-06 -5.75439550e-06 1.41612479e-05] w = [-0.2457189 0.71348078 2.53223811] w\_new= [-0.24571898 0.71348073 2.53223825]

gradient= [-8.39733070e-06 -5.74808036e-06 1.41454111e-05] w = [-0.24571898 0.71348073 2.53223825] w\_new= [-0.24571907 0.71348067 2.5322384 ]

gradient= [-8.38781986e-06 -5.74177209e-06 1.41295920e-05] w = [-0.24571907 0.71348067 2.5322384 ] w\_new= [-0.24571915 0.71348061 2.53223854]

gradient= [-8.37831984e-06 -5.73547071e-06 1.41137905e-05] w = [-0.24571915 0.71348061 2.53223854] w\_new= [-0.24571923 0.71348055 2.53223868]

gradient= [-8.36883062e-06 -5.72917619e-06 1.40980068e-05] w = [-0.24571923 0.71348055 2.53223868] w\_new= [-0.24571932 0.7134805 2.53223882]

gradient= [-8.35935218e-06 -5.72288854e-06 1.40822407e-05] w = [-0.24571932 0.7134805 2.53223882] w\_new= [-0.2457194 0.71348044 2.53223896]

gradient= [-8.34988452e-06 -5.71660774e-06 1.40664923e-05] w = [-0.2457194 0.71348044 2.53223896] w\_new= [-0.24571948 0.71348038 2.5322391 ]

gradient= [-8.34042761e-06 -5.71033378e-06 1.40507614e-05] w = [-0.24571948 0.71348038 2.5322391 ] w\_new= [-0.24571957 0.71348033 2.53223924]

gradient= [-8.33098146e-06 -5.70406667e-06 1.40350481e-05] w = [-0.24571957 0.71348033 2.53223924] w\_new= [-0.24571965 0.71348027 2.53223938]

gradient= [-8.32154605e-06 -5.69780639e-06 1.40193524e-05] w = [-0.24571965 0.71348027 2.53223938] w\_new= [-0.24571973 0.71348021 2.53223952]

gradient= [-8.31212136e-06 -5.69155294e-06 1.40036743e-05] w = [-0.24571973 0.71348021 2.53223952] w\_new= [-0.24571982 0.71348015 2.53223966]

gradient= [-8.30270739e-06 -5.68530630e-06 1.39880137e-05] w = [-0.24571982 0.71348015 2.53223966] w\_new= [-0.2457199 0.7134801 2.5322398]

gradient= [-8.29330412e-06 -5.67906647e-06 1.39723706e-05] w = [-0.2457199 0.7134801 2.5322398] w\_new= [-0.24571998 0.71348004 2.53223994]

gradient= [-8.28391153e-06 -5.67283345e-06 1.39567450e-05] w = [-0.24571998 0.71348004 2.53223994] w\_new= [-0.24572007 0.71347998 2.53224008]

gradient= [-8.27452962e-06 -5.66660722e-06 1.39411368e-05] w = [-0.24572007 0.71347998 2.53224008] w\_new= [-0.24572015 0.71347993 2.53224022]

gradient= [-8.26515838e-06 -5.66038778e-06 1.39255462e-05] w = [-0.24572015 0.71347993 2.53224022] w\_new= [-0.24572023 0.71347987 2.53224036]

gradient= [-8.25579779e-06 -5.65417512e-06 1.39099729e-05] w = [-0.24572023 0.71347987 2.53224036] w\_new= [-0.24572031 0.71347981 2.5322405 ]

gradient= [-8.24644784e-06 -5.64796924e-06 1.38944171e-05] w = [-0.24572031 0.71347981 2.5322405 ] w\_new= [-0.2457204 0.71347976 2.53224064]

gradient= [-8.23710851e-06 -5.64177012e-06 1.38788786e-05] w = [-0.2457204 0.71347976 2.53224064] w\_new= [-0.24572048 0.7134797 2.53224078]

gradient= [-8.22777981e-06 -5.63557776e-06 1.38633576e-05] w = [-0.24572048 0.7134797 2.53224078] w\_new= [-0.24572056 0.71347964 2.53224092]

gradient= [-8.21846170e-06 -5.62939215e-06 1.38478539e-05] w = [-0.24572056 0.71347964 2.53224092] w\_new= [-0.24572064 0.71347959 2.53224105]

gradient= [-8.20915419e-06 -5.62321329e-06 1.38323675e-05] w = [-0.24572064 0.71347959 2.53224105] w\_new= [-0.24572072 0.71347953 2.53224119]

gradient= [-8.19985726e-06 -5.61704117e-06 1.38168984e-05] w = [-0.24572072 0.71347953 2.53224119] w\_new= [-0.24572081 0.71347948 2.53224133]

gradient= [-8.19057089e-06 -5.61087577e-06 1.38014467e-05] w = [-0.24572081 0.71347948 2.53224133] w\_new= [-0.24572089 0.71347942 2.53224147]

gradient= [-8.18129508e-06 -5.60471710e-06 1.37860122e-05] w = [-0.24572089 0.71347942 2.53224147] w\_new= [-0.24572097 0.71347936 2.53224161]

gradient= [-8.17202981e-06 -5.59856514e-06 1.37705949e-05] w = [-0.24572097 0.71347936 2.53224161] w\_new= [-0.24572105 0.71347931 2.53224174]

gradient= [-8.16277507e-06 -5.59241989e-06 1.37551950e-05] w = [-0.24572105 0.71347931 2.53224174] w\_new= [-0.24572113 0.71347925 2.53224188]

gradient= [-8.15353086e-06 -5.58628134e-06 1.37398122e-05] w = [-0.24572113 0.71347925 2.53224188] w\_new= [-0.24572122 0.7134792 2.53224202]

gradient= [-8.14429715e-06 -5.58014949e-06 1.37244466e-05] w = [-0.24572122 0.7134792 2.53224202] w\_new= [-0.2457213 0.71347914 2.53224216]

gradient= [-8.13507393e-06 -5.57402432e-06 1.37090982e-05] w = [-0.2457213 0.71347914 2.53224216] w\_new= [-0.24572138 0.71347908 2.53224229]

gradient= [-8.12586120e-06 -5.56790583e-06 1.36937670e-05] w = [-0.24572138 0.71347908 2.53224229] w\_new= [-0.24572146 0.71347903 2.53224243]

gradient= [-8.11665894e-06 -5.56179401e-06 1.36784529e-05] w = [-0.24572146 0.71347903 2.53224243] w\_new= [-0.24572154 0.71347897 2.53224257]

gradient= [-8.10746714e-06 -5.55568886e-06 1.36631560e-05] w = [-0.24572154 0.71347897 2.53224257] w\_new= [-0.24572162 0.71347892 2.5322427 ]

gradient= [-8.09828578e-06 -5.54959036e-06 1.36478761e-05] w = [-0.24572162 0.71347892 2.5322427 ] w\_new= [-0.2457217 0.71347886 2.53224284]

gradient= [-8.08911486e-06 -5.54349852e-06 1.36326134e-05] w = [-0.2457217 0.71347886 2.53224284] w\_new= [-0.24572178 0.71347881 2.53224298]

gradient= [-8.07995437e-06 -5.53741331e-06 1.36173677e-05] w = [-0.24572178 0.71347881 2.53224298] w\_new= [-0.24572186 0.71347875 2.53224311]

gradient= [-8.07080428e-06 -5.53133475e-06 1.36021390e-05] w = [-0.24572186 0.71347875 2.53224311] w\_new= [-0.24572194 0.7134787 2.53224325]

gradient= [-8.06166460e-06 -5.52526281e-06 1.35869274e-05] w = [-0.24572194 0.7134787 2.53224325] w\_new= [-0.24572203 0.71347864 2.53224338]

gradient= [-8.05253530e-06 -5.51919750e-06 1.35717328e-05] w = [-0.24572203 0.71347864 2.53224338] w\_new= [-0.24572211 0.71347859 2.53224352]

gradient= [-8.04341638e-06 -5.51313880e-06 1.35565552e-05] w = [-0.24572211 0.71347859 2.53224352] w\_new= [-0.24572219 0.71347853 2.53224366]

gradient= [-8.03430782e-06 -5.50708670e-06 1.35413945e-05] w = [-0.24572219 0.71347853 2.53224366] w\_new= [-0.24572227 0.71347848 2.53224379]

gradient= [-8.02520962e-06 -5.50104121e-06 1.35262508e-05] w = [-0.24572227 0.71347848 2.53224379] w\_new= [-0.24572235 0.71347842 2.53224393]

gradient= [-8.01612175e-06 -5.49500231e-06 1.35111241e-05] w = [-0.24572235 0.71347842 2.53224393] w\_new= [-0.24572243 0.71347837 2.53224406]

gradient= [-8.00704422e-06 -5.48896999e-06 1.34960142e-05] w = [-0.24572243 0.71347837 2.53224406] w\_new= [-0.24572251 0.71347831 2.5322442 ]

gradient= [-7.99797700e-06 -5.48294426e-06 1.34809213e-05] w = [-0.24572251 0.71347831 2.5322442 ] w\_new= [-0.24572259 0.71347826 2.53224433]

gradient= [-7.98892008e-06 -5.47692510e-06 1.34658452e-05] w = [-0.24572259 0.71347826 2.53224433] w\_new= [-0.24572267 0.7134782 2.53224447]

gradient= [-7.97987346e-06 -5.47091250e-06 1.34507860e-05] w = [-0.24572267 0.7134782 2.53224447] w\_new= [-0.24572275 0.71347815 2.5322446 ]

gradient= [-7.97083712e-06 -5.46490645e-06 1.34357436e-05] w = [-0.24572275 0.71347815 2.5322446 ] w\_new= [-0.24572283 0.71347809 2.53224474]

gradient= [-7.96181105e-06 -5.45890696e-06 1.34207180e-05] w = [-0.24572283 0.71347809 2.53224474] w\_new= [-0.24572291 0.71347804 2.53224487]

gradient= [-7.95279524e-06 -5.45291402e-06 1.34057093e-05] w = [-0.24572291 0.71347804 2.53224487] w\_new= [-0.24572299 0.71347798 2.532245 ]

gradient= [-7.94378967e-06 -5.44692760e-06 1.33907173e-05] w = [-0.24572299 0.71347798 2.532245 ] w\_new= [-0.24572307 0.71347793 2.53224514]

gradient= [-7.93479434e-06 -5.44094772e-06 1.33757421e-05] w = [-0.24572307 0.71347793 2.53224514] w\_new= [-0.24572314 0.71347787 2.53224527]

gradient= [-7.92580923e-06 -5.43497436e-06 1.33607836e-05] w = [-0.24572314 0.71347787 2.53224527] w\_new= [-0.24572322 0.71347782 2.5322454 ]

gradient= [-7.91683434e-06 -5.42900752e-06 1.33458419e-05] w = [-0.24572322 0.71347782 2.5322454 ] w\_new= [-0.2457233 0.71347776 2.53224554]

gradient= [-7.90786964e-06 -5.42304718e-06 1.33309168e-05] w = [-0.2457233 0.71347776 2.53224554] w\_new= [-0.24572338 0.71347771 2.53224567]

gradient= [-7.89891513e-06 -5.41709334e-06 1.33160085e-05] w = [-0.24572338 0.71347771 2.53224567] w\_new= [-0.24572346 0.71347766 2.5322458 ]

gradient= [-7.88997080e-06 -5.41114600e-06 1.33011168e-05] w = [-0.24572346 0.71347766 2.5322458 ] w\_new= [-0.24572354 0.7134776 2.53224594]

gradient= [-7.88103663e-06 -5.40520515e-06 1.32862418e-05] w = [-0.24572354 0.7134776 2.53224594] w\_new= [-0.24572362 0.71347755 2.53224607]

gradient= [-7.87211261e-06 -5.39927077e-06 1.32713834e-05] w = [-0.24572362 0.71347755 2.53224607] w\_new= [-0.2457237 0.71347749 2.5322462 ]

gradient= [-7.86319874e-06 -5.39334287e-06 1.32565416e-05] w = [-0.2457237 0.71347749 2.5322462 ] w\_new= [-0.24572378 0.71347744 2.53224634]

gradient= [-7.85429499e-06 -5.38742144e-06 1.32417164e-05] w = [-0.24572378 0.71347744 2.53224634] w\_new= [-0.24572385 0.71347739 2.53224647]

gradient= [-7.84540137e-06 -5.38150646e-06 1.32269078e-05] w = [-0.24572385 0.71347739 2.53224647] w\_new= [-0.24572393 0.71347733 2.5322466 ]

gradient= [-7.83651785e-06 -5.37559793e-06 1.32121158e-05] w = [-0.24572393 0.71347733 2.5322466 ] w\_new= [-0.24572401 0.71347728 2.53224673]

gradient= [-7.82764443e-06 -5.36969585e-06 1.31973403e-05] w = [-0.24572401 0.71347728 2.53224673] w\_new= [-0.24572409 0.71347723 2.53224686]

gradient= [-7.81878109e-06 -5.36380021e-06 1.31825813e-05] w = [-0.24572409 0.71347723 2.53224686] w\_new= [-0.24572417 0.71347717 2.532247 ]

gradient= [-7.80992782e-06 -5.35791100e-06 1.31678388e-05] w = [-0.24572417 0.71347717 2.532247 ] w\_new= [-0.24572425 0.71347712 2.53224713]

gradient= [-7.80108461e-06 -5.35202821e-06 1.31531128e-05] w = [-0.24572425 0.71347712 2.53224713] w\_new= [-0.24572432 0.71347706 2.53224726]

gradient= [-7.79225145e-06 -5.34615185e-06 1.31384033e-05] w = [-0.24572432 0.71347706 2.53224726] w\_new= [-0.2457244 0.71347701 2.53224739]

gradient= [-7.78342833e-06 -5.34028189e-06 1.31237102e-05] w = [-0.2457244 0.71347701 2.53224739] w\_new= [-0.24572448 0.71347696 2.53224752]

gradient= [-7.77461524e-06 -5.33441833e-06 1.31090336e-05] w = [-0.24572448 0.71347696 2.53224752] w\_new= [-0.24572456 0.7134769 2.53224765]

gradient= [-7.76581216e-06 -5.32856117e-06 1.30943733e-05] w = [-0.24572456 0.7134769 2.53224765] w\_new= [-0.24572464 0.71347685 2.53224778]

gradient= [-7.75701908e-06 -5.32271040e-06 1.30797295e-05] w = [-0.24572464 0.71347685 2.53224778] w\_new= [-0.24572471 0.7134768 2.53224791]

gradient= [-7.74823600e-06 -5.31686601e-06 1.30651020e-05] w = [-0.24572471 0.7134768 2.53224791] w\_new= [-0.24572479 0.71347674 2.53224805]

gradient= [-7.73946290e-06 -5.31102800e-06 1.30504909e-05] w = [-0.24572479 0.71347674 2.53224805] w\_new= [-0.24572487 0.71347669 2.53224818]

gradient= [-7.73069976e-06 -5.30519636e-06 1.30358961e-05] w = [-0.24572487 0.71347669 2.53224818] w\_new= [-0.24572495 0.71347664 2.53224831]

gradient= [-7.72194659e-06 -5.29937108e-06 1.30213177e-05] w = [-0.24572495 0.71347664 2.53224831] w\_new= [-0.24572502 0.71347659 2.53224844]

gradient= [-7.71320336e-06 -5.29355215e-06 1.30067555e-05] w = [-0.24572502 0.71347659 2.53224844] w\_new= [-0.2457251 0.71347653 2.53224857]

gradient= [-7.70447006e-06 -5.28773958e-06 1.29922096e-05] w = [-0.2457251 0.71347653 2.53224857] w\_new= [-0.24572518 0.71347648 2.5322487 ]

gradient= [-7.69574669e-06 -5.28193334e-06 1.29776800e-05] w = [-0.24572518 0.71347648 2.5322487 ] w\_new= [-0.24572525 0.71347643 2.53224883]

gradient= [-7.68703323e-06 -5.27613344e-06 1.29631667e-05] w = [-0.24572525 0.71347643 2.53224883] w\_new= [-0.24572533 0.71347637 2.53224896]

gradient= [-7.67832968e-06 -5.27033986e-06 1.29486695e-05] w = [-0.24572533 0.71347637 2.53224896] w\_new= [-0.24572541 0.71347632 2.53224909]

gradient= [-7.66963601e-06 -5.26455261e-06 1.29341886e-05] w = [-0.24572541 0.71347632 2.53224909] w\_new= [-0.24572548 0.71347627 2.53224921]

gradient= [-7.66095222e-06 -5.25877167e-06 1.29197239e-05] w = [-0.24572548 0.71347627 2.53224921] w\_new= [-0.24572556 0.71347622 2.53224934]

gradient= [-7.65227830e-06 -5.25299704e-06 1.29052753e-05] w = [-0.24572556 0.71347622 2.53224934] w\_new= [-0.24572564 0.71347616 2.53224947]

gradient= [-7.64361423e-06 -5.24722870e-06 1.28908429e-05] w = [-0.24572564 0.71347616 2.53224947] w\_new= [-0.24572571 0.71347611 2.5322496 ]

gradient= [-7.63496001e-06 -5.24146667e-06 1.28764267e-05] w = [-0.24572571 0.71347611 2.5322496 ] w\_new= [-0.24572579 0.71347606 2.53224973]

gradient= [-7.62631562e-06 -5.23571091e-06 1.28620265e-05] w = [-0.24572579 0.71347606 2.53224973] w\_new= [-0.24572587 0.71347601 2.53224986]

gradient= [-7.61768106e-06 -5.22996144e-06 1.28476425e-05] w = [-0.24572587 0.71347601 2.53224986] w\_new= [-0.24572594 0.71347595 2.53224999]

gradient= [-7.60905630e-06 -5.22421824e-06 1.28332745e-05] w = [-0.24572594 0.71347595 2.53224999] w\_new= [-0.24572602 0.7134759 2.53225012]

gradient= [-7.60044135e-06 -5.21848131e-06 1.28189227e-05] w = [-0.24572602 0.7134759 2.53225012] w\_new= [-0.24572609 0.71347585 2.53225024]

gradient= [-7.59183618e-06 -5.21275063e-06 1.28045868e-05] w = [-0.24572609 0.71347585 2.53225024] w\_new= [-0.24572617 0.7134758 2.53225037]

gradient= [-7.58324079e-06 -5.20702621e-06 1.27902670e-05] w = [-0.24572617 0.7134758 2.53225037] w\_new= [-0.24572625 0.71347575 2.5322505 ]

gradient= [-7.57465517e-06 -5.20130804e-06 1.27759632e-05] w = [-0.24572625 0.71347575 2.5322505 ] w\_new= [-0.24572632 0.71347569 2.53225063]

gradient= [-7.56607931e-06 -5.19559610e-06 1.27616754e-05] w = [-0.24572632 0.71347569 2.53225063] w\_new= [-0.2457264 0.71347564 2.53225076]

gradient= [-7.55751318e-06 -5.18989040e-06 1.27474036e-05] w = [-0.2457264 0.71347564 2.53225076] w\_new= [-0.24572647 0.71347559 2.53225088]

gradient= [-7.54895679e-06 -5.18419092e-06 1.27331477e-05] w = [-0.24572647 0.71347559 2.53225088] w\_new= [-0.24572655 0.71347554 2.53225101]

gradient= [-7.54041012e-06 -5.17849766e-06 1.27189078e-05] w = [-0.24572655 0.71347554 2.53225101] w\_new= [-0.24572662 0.71347549 2.53225114]

gradient= [-7.53187317e-06 -5.17281062e-06 1.27046838e-05] w = [-0.24572662 0.71347549 2.53225114] w\_new= [-0.2457267 0.71347543 2.53225126]

gradient= [-7.52334591e-06 -5.16712978e-06 1.26904757e-05] w = [-0.2457267 0.71347543 2.53225126] w\_new= [-0.24572677 0.71347538 2.53225139]

gradient= [-7.51482834e-06 -5.16145513e-06 1.26762835e-05] w = [-0.24572677 0.71347538 2.53225139] w\_new= [-0.24572685 0.71347533 2.53225152]

gradient= [-7.50632045e-06 -5.15578669e-06 1.26621071e-05] w = [-0.24572685 0.71347533 2.53225152] w\_new= [-0.24572692 0.71347528 2.53225165]

gradient= [-7.49782222e-06 -5.15012442e-06 1.26479466e-05] w = [-0.24572692 0.71347528 2.53225165] w\_new= [-0.245727 0.71347523 2.53225177]

gradient= [-7.48933365e-06 -5.14446834e-06 1.26338020e-05] w = [-0.245727 0.71347523 2.53225177] w\_new= [-0.24572707 0.71347518 2.5322519 ]

gradient= [-7.48085473e-06 -5.13881842e-06 1.26196731e-05] w = [-0.24572707 0.71347518 2.5322519 ] w\_new= [-0.24572715 0.71347513 2.53225202]

gradient= [-7.47238543e-06 -5.13317467e-06 1.26055601e-05] w = [-0.24572715 0.71347513 2.53225202] w\_new= [-0.24572722 0.71347507 2.53225215]

gradient= [-7.46392576e-06 -5.12753708e-06 1.25914628e-05] w = [-0.24572722 0.71347507 2.53225215] w\_new= [-0.2457273 0.71347502 2.53225228]

gradient= [-7.45547571e-06 -5.12190565e-06 1.25773814e-05] w = [-0.2457273 0.71347502 2.53225228] w\_new= [-0.24572737 0.71347497 2.5322524 ]

gradient= [-7.44703525e-06 -5.11628035e-06 1.25633156e-05] w = [-0.24572737 0.71347497 2.5322524 ] w\_new= [-0.24572745 0.71347492 2.53225253]

gradient= [-7.43860438e-06 -5.11066120e-06 1.25492656e-05] w = [-0.24572745 0.71347492 2.53225253] w\_new= [-0.24572752 0.71347487 2.53225265]

gradient= [-7.43018309e-06 -5.10504818e-06 1.25352313e-05] w = [-0.24572752 0.71347487 2.53225265] w\_new= [-0.2457276 0.71347482 2.53225278]

gradient= [-7.42177137e-06 -5.09944128e-06 1.25212127e-05] w = [-0.2457276 0.71347482 2.53225278] w\_new= [-0.24572767 0.71347477 2.5322529 ]

gradient= [-7.41336920e-06 -5.09384051e-06 1.25072097e-05] w = [-0.24572767 0.71347477 2.5322529 ] w\_new= [-0.24572774 0.71347472 2.53225303]

gradient= [-7.40497658e-06 -5.08824584e-06 1.24932224e-05] w = [-0.24572774 0.71347472 2.53225303] w\_new= [-0.24572782 0.71347467 2.53225315]

gradient= [-7.39659350e-06 -5.08265728e-06 1.24792508e-05] w = [-0.24572782 0.71347467 2.53225315] w\_new= [-0.24572789 0.71347461 2.53225328]

gradient= [-7.38821994e-06 -5.07707482e-06 1.24652948e-05] w = [-0.24572789 0.71347461 2.53225328] w\_new= [-0.24572797 0.71347456 2.5322534 ]

gradient= [-7.37985589e-06 -5.07149846e-06 1.24513543e-05] w = [-0.24572797 0.71347456 2.5322534 ] w\_new= [-0.24572804 0.71347451 2.53225353]

gradient= [-7.37150134e-06 -5.06592817e-06 1.24374295e-05] w = [-0.24572804 0.71347451 2.53225353] w\_new= [-0.24572811 0.71347446 2.53225365]

gradient= [-7.36315629e-06 -5.06036397e-06 1.24235203e-05] w = [-0.24572811 0.71347446 2.53225365] w\_new= [-0.24572819 0.71347441 2.53225378]

gradient= [-7.35482071e-06 -5.05480584e-06 1.24096266e-05] w = [-0.24572819 0.71347441 2.53225378] w\_new= [-0.24572826 0.71347436 2.5322539 ]

gradient= [-7.34649461e-06 -5.04925378e-06 1.23957484e-05] w = [-0.24572826 0.71347436 2.5322539 ] w\_new= [-0.24572833 0.71347431 2.53225402]

gradient= [-7.33817797e-06 -5.04370777e-06 1.23818857e-05] w = [-0.24572833 0.71347431 2.53225402] w\_new= [-0.24572841 0.71347426 2.53225415]

gradient= [-7.32987077e-06 -5.03816782e-06 1.23680386e-05] w = [-0.24572841 0.71347426 2.53225415] w\_new= [-0.24572848 0.71347421 2.53225427]

gradient= [-7.32157301e-06 -5.03263392e-06 1.23542069e-05] w = [-0.24572848 0.71347421 2.53225427] w\_new= [-0.24572855 0.71347416 2.5322544 ]

gradient= [-7.31328468e-06 -5.02710605e-06 1.23403907e-05] w = [-0.24572855 0.71347416 2.5322544 ] w\_new= [-0.24572863 0.71347411 2.53225452]

gradient= [-7.30500576e-06 -5.02158422e-06 1.23265900e-05] w = [-0.24572863 0.71347411 2.53225452] w\_new= [-0.2457287 0.71347406 2.53225464]

gradient= [-7.29673625e-06 -5.01606842e-06 1.23128047e-05] w = [-0.2457287 0.71347406 2.53225464] w\_new= [-0.24572877 0.71347401 2.53225477]

gradient= [-7.28847613e-06 -5.01055863e-06 1.22990348e-05] w = [-0.24572877 0.71347401 2.53225477] w\_new= [-0.24572885 0.71347396 2.53225489]

gradient= [-7.28022540e-06 -5.00505486e-06 1.22852803e-05] w = [-0.24572885 0.71347396 2.53225489] w\_new= [-0.24572892 0.71347391 2.53225501]

gradient= [-7.27198404e-06 -4.99955710e-06 1.22715411e-05] w = [-0.24572892 0.71347391 2.53225501] w\_new= [-0.24572899 0.71347386 2.53225513]

gradient= [-7.26375204e-06 -4.99406533e-06 1.22578174e-05] w = [-0.24572899 0.71347386 2.53225513] w\_new= [-0.24572906 0.71347381 2.53225526]

gradient= [-7.25552939e-06 -4.98857957e-06 1.22441090e-05] w = [-0.24572906 0.71347381 2.53225526] w\_new= [-0.24572914 0.71347376 2.53225538]

gradient= [-7.24731609e-06 -4.98309978e-06 1.22304159e-05] w = [-0.24572914 0.71347376 2.53225538] w\_new= [-0.24572921 0.71347371 2.5322555 ]

gradient= [-7.23911211e-06 -4.97762599e-06 1.22167381e-05] w = [-0.24572921 0.71347371 2.5322555 ] w\_new= [-0.24572928 0.71347366 2.53225562]

gradient= [-7.23091745e-06 -4.97215816e-06 1.22030756e-05] w = [-0.24572928 0.71347366 2.53225562] w\_new= [-0.24572935 0.71347361 2.53225575]

gradient= [-7.22273211e-06 -4.96669630e-06 1.21894284e-05] w = [-0.24572935 0.71347361 2.53225575] w\_new= [-0.24572943 0.71347356 2.53225587]

gradient= [-7.21455606e-06 -4.96124041e-06 1.21757965e-05] w = [-0.24572943 0.71347356 2.53225587] w\_new= [-0.2457295 0.71347351 2.53225599]

gradient= [-7.20638930e-06 -4.95579047e-06 1.21621798e-05] w = [-0.2457295 0.71347351 2.53225599] w\_new= [-0.24572957 0.71347346 2.53225611]

gradient= [-7.19823181e-06 -4.95034648e-06 1.21485783e-05] w = [-0.24572957 0.71347346 2.53225611] w\_new= [-0.24572964 0.71347341 2.53225623]

gradient= [-7.19008360e-06 -4.94490843e-06 1.21349920e-05] w = [-0.24572964 0.71347341 2.53225623] w\_new= [-0.24572971 0.71347336 2.53225635]

gradient= [-7.18194463e-06 -4.93947632e-06 1.21214210e-05] w = [-0.24572971 0.71347336 2.53225635] w\_new= [-0.24572979 0.71347331 2.53225647]

gradient= [-7.17381492e-06 -4.93405014e-06 1.21078651e-05] w = [-0.24572979 0.71347331 2.53225647] w\_new= [-0.24572986 0.71347326 2.5322566 ]

gradient= [-7.16569444e-06 -4.92862988e-06 1.20943243e-05] w = [-0.24572986 0.71347326 2.5322566 ] w\_new= [-0.24572993 0.71347321 2.53225672]

gradient= [-7.15758318e-06 -4.92321554e-06 1.20807987e-05] w = [-0.24572993 0.71347321 2.53225672] w\_new= [-0.24573 0.71347316 2.53225684]

gradient= [-7.14948114e-06 -4.91780711e-06 1.20672882e-05] w = [-0.24573 0.71347316 2.53225684] w\_new= [-0.24573007 0.71347312 2.53225696]

gradient= [-7.14138830e-06 -4.91240459e-06 1.20537929e-05] w = [-0.24573007 0.71347312 2.53225696] w\_new= [-0.24573014 0.71347307 2.53225708]

gradient= [-7.13330465e-06 -4.90700796e-06 1.20403126e-05] w = [-0.24573014 0.71347307 2.53225708] w\_new= [-0.24573022 0.71347302 2.5322572 ]

gradient= [-7.12523018e-06 -4.90161722e-06 1.20268474e-05] w = [-0.24573022 0.71347302 2.5322572 ] w\_new= [-0.24573029 0.71347297 2.53225732]

gradient= [-7.11716489e-06 -4.89623237e-06 1.20133973e-05] w = [-0.24573029 0.71347297 2.53225732] w\_new= [-0.24573036 0.71347292 2.53225744]

gradient= [-7.10910876e-06 -4.89085339e-06 1.19999622e-05] w = [-0.24573036 0.71347292 2.53225744] w\_new= [-0.24573043 0.71347287 2.53225756]

gradient= [-7.10106178e-06 -4.88548029e-06 1.19865421e-05] w = [-0.24573043 0.71347287 2.53225756] w\_new= [-0.2457305 0.71347282 2.53225768]

gradient= [-7.09302394e-06 -4.88011306e-06 1.19731370e-05] w = [-0.2457305 0.71347282 2.53225768] w\_new= [-0.24573057 0.71347277 2.5322578 ]

gradient= [-7.08499523e-06 -4.87475168e-06 1.19597469e-05] w = [-0.24573057 0.71347277 2.5322578 ] w\_new= [-0.24573064 0.71347272 2.53225792]

gradient= [-7.07697564e-06 -4.86939616e-06 1.19463718e-05] w = [-0.24573064 0.71347272 2.53225792] w\_new= [-0.24573071 0.71347268 2.53225804]

gradient= [-7.06896516e-06 -4.86404648e-06 1.19330116e-05] w = [-0.24573071 0.71347268 2.53225804] w\_new= [-0.24573078 0.71347263 2.53225816]

gradient= [-7.06096377e-06 -4.85870265e-06 1.19196664e-05] w = [-0.24573078 0.71347263 2.53225816] w\_new= [-0.24573085 0.71347258 2.53225828]

gradient= [-7.05297148e-06 -4.85336464e-06 1.19063361e-05] w = [-0.24573085 0.71347258 2.53225828] w\_new= [-0.24573092 0.71347253 2.5322584 ]

gradient= [-7.04498826e-06 -4.84803247e-06 1.18930207e-05] w = [-0.24573092 0.71347253 2.5322584 ] w\_new= [-0.245731 0.71347248 2.53225851]

gradient= [-7.03701411e-06 -4.84270612e-06 1.18797202e-05] w = [-0.245731 0.71347248 2.53225851] w\_new= [-0.24573107 0.71347243 2.53225863]

gradient= [-7.02904902e-06 -4.83738558e-06 1.18664346e-05] w = [-0.24573107 0.71347243 2.53225863] w\_new= [-0.24573114 0.71347238 2.53225875]

gradient= [-7.02109298e-06 -4.83207086e-06 1.18531638e-05] w = [-0.24573114 0.71347238 2.53225875] w\_new= [-0.24573121 0.71347234 2.53225887]

gradient= [-7.01314597e-06 -4.82676193e-06 1.18399079e-05] w = [-0.24573121 0.71347234 2.53225887] w\_new= [-0.24573128 0.71347229 2.53225899]

gradient= [-7.00520799e-06 -4.82145880e-06 1.18266668e-05] w = [-0.24573128 0.71347229 2.53225899] w\_new= [-0.24573135 0.71347224 2.53225911]

gradient= [-6.99727903e-06 -4.81616146e-06 1.18134405e-05] w = [-0.24573135 0.71347224 2.53225911] w\_new= [-0.24573142 0.71347219 2.53225923]

gradient= [-6.98935907e-06 -4.81086991e-06 1.18002290e-05] w = [-0.24573142 0.71347219 2.53225923] w\_new= [-0.24573149 0.71347214 2.53225934]

gradient= [-6.98144810e-06 -4.80558413e-06 1.17870322e-05] w = [-0.24573149 0.71347214 2.53225934] w\_new= [-0.24573156 0.71347209 2.53225946]

gradient= [-6.97354612e-06 -4.80030413e-06 1.17738502e-05] w = [-0.24573156 0.71347209 2.53225946] w\_new= [-0.24573163 0.71347205 2.53225958]

gradient= [-6.96565312e-06 -4.79502988e-06 1.17606830e-05] w = [-0.24573163 0.71347205 2.53225958] w\_new= [-0.2457317 0.713472 2.5322597]

gradient= [-6.95776908e-06 -4.78976140e-06 1.17475305e-05] w = [-0.2457317 0.713472 2.5322597] w\_new= [-0.24573176 0.71347195 2.53225981]

gradient= [-6.94989400e-06 -4.78449867e-06 1.17343927e-05] w = [-0.24573176 0.71347195 2.53225981] w\_new= [-0.24573183 0.7134719 2.53225993]

gradient= [-6.94202786e-06 -4.77924169e-06 1.17212695e-05] w = [-0.24573183 0.7134719 2.53225993] w\_new= [-0.2457319 0.71347186 2.53226005]

gradient= [-6.93417065e-06 -4.77399045e-06 1.17081611e-05] w = [-0.2457319 0.71347186 2.53226005] w\_new= [-0.24573197 0.71347181 2.53226017]

gradient= [-6.92632237e-06 -4.76874494e-06 1.16950673e-05] w = [-0.24573197 0.71347181 2.53226017] w\_new= [-0.24573204 0.71347176 2.53226028]

gradient= [-6.91848300e-06 -4.76350516e-06 1.16819882e-05] w = [-0.24573204 0.71347176 2.53226028] w\_new= [-0.24573211 0.71347171 2.5322604 ]

gradient= [-6.91065254e-06 -4.75827110e-06 1.16689236e-05] w = [-0.24573211 0.71347171 2.5322604 ] w\_new= [-0.24573218 0.71347166 2.53226052]

gradient= [-6.90283097e-06 -4.75304276e-06 1.16558737e-05] w = [-0.24573218 0.71347166 2.53226052] w\_new= [-0.24573225 0.71347162 2.53226063]

gradient= [-6.89501828e-06 -4.74782012e-06 1.16428384e-05] w = [-0.24573225 0.71347162 2.53226063] w\_new= [-0.24573232 0.71347157 2.53226075]

gradient= [-6.88721447e-06 -4.74260319e-06 1.16298177e-05] w = [-0.24573232 0.71347157 2.53226075] w\_new= [-0.24573239 0.71347152 2.53226087]

gradient= [-6.87941951e-06 -4.73739196e-06 1.16168115e-05] w = [-0.24573239 0.71347152 2.53226087] w\_new= [-0.24573246 0.71347147 2.53226098]

gradient= [-6.87163341e-06 -4.73218641e-06 1.16038198e-05] w = [-0.24573246 0.71347147 2.53226098] w\_new= [-0.24573253 0.71347143 2.5322611 ]

gradient= [-6.86385616e-06 -4.72698655e-06 1.15908427e-05] w = [-0.24573253 0.71347143 2.5322611 ] w\_new= [-0.24573259 0.71347138 2.53226121]

gradient= [-6.85608774e-06 -4.72179237e-06 1.15778801e-05] w = [-0.24573259 0.71347138 2.53226121] w\_new= [-0.24573266 0.71347133 2.53226133]

gradient= [-6.84832814e-06 -4.71660386e-06 1.15649320e-05] w = [-0.24573266 0.71347133 2.53226133] w\_new= [-0.24573273 0.71347129 2.53226144]

gradient= [-6.84057735e-06 -4.71142102e-06 1.15519984e-05] w = [-0.24573273 0.71347129 2.53226144] w\_new= [-0.2457328 0.71347124 2.53226156]

gradient= [-6.83283536e-06 -4.70624383e-06 1.15390792e-05] w = [-0.2457328 0.71347124 2.53226156] w\_new= [-0.24573287 0.71347119 2.53226168]

gradient= [-6.82510217e-06 -4.70107231e-06 1.15261745e-05] w = [-0.24573287 0.71347119 2.53226168] w\_new= [-0.24573294 0.71347114 2.53226179]

gradient= [-6.81737776e-06 -4.69590642e-06 1.15132842e-05] w = [-0.24573294 0.71347114 2.53226179] w\_new= [-0.245733 0.7134711 2.53226191]

gradient= [-6.80966212e-06 -4.69074618e-06 1.15004083e-05] w = [-0.245733 0.7134711 2.53226191] w\_new= [-0.24573307 0.71347105 2.53226202]

gradient= [-6.80195525e-06 -4.68559158e-06 1.14875468e-05] w = [-0.24573307 0.71347105 2.53226202] w\_new= [-0.24573314 0.713471 2.53226214]

gradient= [-6.79425712e-06 -4.68044260e-06 1.14746997e-05] w = [-0.24573314 0.713471 2.53226214] w\_new= [-0.24573321 0.71347096 2.53226225]

gradient= [-6.78656774e-06 -4.67529925e-06 1.14618670e-05] w = [-0.24573321 0.71347096 2.53226225] w\_new= [-0.24573328 0.71347091 2.53226237]

gradient= [-6.77888709e-06 -4.67016152e-06 1.14490486e-05] w = [-0.24573328 0.71347091 2.53226237] w\_new= [-0.24573334 0.71347086 2.53226248]

gradient= [-6.77121517e-06 -4.66502939e-06 1.14362446e-05] w = [-0.24573334 0.71347086 2.53226248] w\_new= [-0.24573341 0.71347082 2.53226259]

gradient= [-6.76355195e-06 -4.65990287e-06 1.14234548e-05] w = [-0.24573341 0.71347082 2.53226259] w\_new= [-0.24573348 0.71347077 2.53226271]

gradient= [-6.75589744e-06 -4.65478195e-06 1.14106794e-05] w = [-0.24573348 0.71347077 2.53226271] w\_new= [-0.24573355 0.71347072 2.53226282]

gradient= [-6.74825163e-06 -4.64966663e-06 1.13979183e-05] w = [-0.24573355 0.71347072 2.53226282] w\_new= [-0.24573361 0.71347068 2.53226294]

gradient= [-6.74061449e-06 -4.64455688e-06 1.13851714e-05] w = [-0.24573361 0.71347068 2.53226294] w\_new= [-0.24573368 0.71347063 2.53226305]

gradient= [-6.73298603e-06 -4.63945273e-06 1.13724388e-05] w = [-0.24573368 0.71347063 2.53226305] w\_new= [-0.24573375 0.71347058 2.53226316]

gradient= [-6.72536623e-06 -4.63435414e-06 1.13597204e-05] w = [-0.24573375 0.71347058 2.53226316] w\_new= [-0.24573382 0.71347054 2.53226328]

gradient= [-6.71775508e-06 -4.62926112e-06 1.13470162e-05] w = [-0.24573382 0.71347054 2.53226328] w\_new= [-0.24573388 0.71347049 2.53226339]

gradient= [-6.71015258e-06 -4.62417367e-06 1.13343263e-05] w = [-0.24573388 0.71347049 2.53226339] w\_new= [-0.24573395 0.71347045 2.5322635 ]

gradient= [-6.70255871e-06 -4.61909177e-06 1.13216505e-05] w = [-0.24573395 0.71347045 2.5322635 ] w\_new= [-0.24573402 0.7134704 2.53226362]

gradient= [-6.69497346e-06 -4.61401543e-06 1.13089889e-05] w = [-0.24573402 0.7134704 2.53226362] w\_new= [-0.24573408 0.71347035 2.53226373]

gradient= [-6.68739683e-06 -4.60894462e-06 1.12963415e-05] w = [-0.24573408 0.71347035 2.53226373] w\_new= [-0.24573415 0.71347031 2.53226384]

gradient= [-6.67982880e-06 -4.60387936e-06 1.12837082e-05] w = [-0.24573415 0.71347031 2.53226384] w\_new= [-0.24573422 0.71347026 2.53226396]

gradient= [-6.67226937e-06 -4.59881963e-06 1.12710890e-05] w = [-0.24573422 0.71347026 2.53226396] w\_new= [-0.24573428 0.71347022 2.53226407]

gradient= [-6.66471852e-06 -4.59376543e-06 1.12584839e-05] w = [-0.24573428 0.71347022 2.53226407] w\_new= [-0.24573435 0.71347017 2.53226418]

gradient= [-6.65717624e-06 -4.58871674e-06 1.12458930e-05] w = [-0.24573435 0.71347017 2.53226418] w\_new= [-0.24573442 0.71347012 2.53226429]

gradient= [-6.64964253e-06 -4.58367357e-06 1.12333161e-05] w = [-0.24573442 0.71347012 2.53226429] w\_new= [-0.24573448 0.71347008 2.53226441]

gradient= [-6.64211738e-06 -4.57863591e-06 1.12207533e-05] w = [-0.24573448 0.71347008 2.53226441] w\_new= [-0.24573455 0.71347003 2.53226452]

gradient= [-6.63460077e-06 -4.57360376e-06 1.12082045e-05] w = [-0.24573455 0.71347003 2.53226452] w\_new= [-0.24573462 0.71346999 2.53226463]

gradient= [-6.62709269e-06 -4.56857710e-06 1.11956698e-05] w = [-0.24573462 0.71346999 2.53226463] w\_new= [-0.24573468 0.71346994 2.53226474]

gradient= [-6.61959314e-06 -4.56355593e-06 1.11831491e-05] w = [-0.24573468 0.71346994 2.53226474] w\_new= [-0.24573475 0.71346989 2.53226485]

gradient= [-6.61210211e-06 -4.55854024e-06 1.11706423e-05] w = [-0.24573475 0.71346989 2.53226485] w\_new= [-0.24573482 0.71346985 2.53226497]

gradient= [-6.60461958e-06 -4.55353003e-06 1.11581496e-05] w = [-0.24573482 0.71346985 2.53226497] w\_new= [-0.24573488 0.7134698 2.53226508]

gradient= [-6.59714555e-06 -4.54852530e-06 1.11456708e-05] w = [-0.24573488 0.7134698 2.53226508] w\_new= [-0.24573495 0.71346976 2.53226519]

gradient= [-6.58968000e-06 -4.54352603e-06 1.11332060e-05] w = [-0.24573495 0.71346976 2.53226519] w\_new= [-0.24573501 0.71346971 2.5322653 ]

gradient= [-6.58222294e-06 -4.53853223e-06 1.11207552e-05] w = [-0.24573501 0.71346971 2.5322653 ] w\_new= [-0.24573508 0.71346967 2.53226541]

gradient= [-6.57477434e-06 -4.53354388e-06 1.11083182e-05] w = [-0.24573508 0.71346967 2.53226541] w\_new= [-0.24573515 0.71346962 2.53226552]

gradient= [-6.56733419e-06 -4.52856098e-06 1.10958952e-05] w = [-0.24573515 0.71346962 2.53226552] w\_new= [-0.24573521 0.71346958 2.53226563]

gradient= [-6.55990250e-06 -4.52358352e-06 1.10834860e-05] w = [-0.24573521 0.71346958 2.53226563] w\_new= [-0.24573528 0.71346953 2.53226575]

gradient= [-6.55247925e-06 -4.51861150e-06 1.10710907e-05] w = [-0.24573528 0.71346953 2.53226575] w\_new= [-0.24573534 0.71346949 2.53226586]

gradient= [-6.54506442e-06 -4.51364491e-06 1.10587093e-05] w = [-0.24573534 0.71346949 2.53226586] w\_new= [-0.24573541 0.71346944 2.53226597]

gradient= [-6.53765801e-06 -4.50868375e-06 1.10463418e-05] w = [-0.24573541 0.71346944 2.53226597] w\_new= [-0.24573547 0.7134694 2.53226608]

gradient= [-6.53026002e-06 -4.50372801e-06 1.10339880e-05] w = [-0.24573547 0.7134694 2.53226608] w\_new= [-0.24573554 0.71346935 2.53226619]

gradient= [-6.52287042e-06 -4.49877768e-06 1.10216481e-05] w = [-0.24573554 0.71346935 2.53226619] w\_new= [-0.2457356 0.71346931 2.5322663 ]

gradient= [-6.51548921e-06 -4.49383276e-06 1.10093220e-05] w = [-0.2457356 0.71346931 2.5322663 ] w\_new= [-0.24573567 0.71346926 2.53226641]

gradient= [-6.50811639e-06 -4.48889324e-06 1.09970096e-05] w = [-0.24573567 0.71346926 2.53226641] w\_new= [-0.24573573 0.71346922 2.53226652]

gradient= [-6.50075193e-06 -4.48395912e-06 1.09847110e-05] w = [-0.24573573 0.71346922 2.53226652] w\_new= [-0.2457358 0.71346917 2.53226663]

gradient= [-6.49339584e-06 -4.47903038e-06 1.09724262e-05] w = [-0.2457358 0.71346917 2.53226663] w\_new= [-0.24573586 0.71346913 2.53226674]

gradient= [-6.48604810e-06 -4.47410704e-06 1.09601551e-05] w = [-0.24573586 0.71346913 2.53226674] w\_new= [-0.24573593 0.71346908 2.53226685]

gradient= [-6.47870870e-06 -4.46918907e-06 1.09478978e-05] w = [-0.24573593 0.71346908 2.53226685] w\_new= [-0.24573599 0.71346904 2.53226696]

gradient= [-6.47137764e-06 -4.46427647e-06 1.09356541e-05] w = [-0.24573599 0.71346904 2.53226696] w\_new= [-0.24573606 0.71346899 2.53226707]

gradient= [-6.46405490e-06 -4.45936925e-06 1.09234241e-05] w = [-0.24573606 0.71346899 2.53226707] w\_new= [-0.24573612 0.71346895 2.53226717]

gradient= [-6.45674047e-06 -4.45446738e-06 1.09112079e-05] w = [-0.24573612 0.71346895 2.53226717] w\_new= [-0.24573619 0.7134689 2.53226728]

gradient= [-6.44943435e-06 -4.44957087e-06 1.08990052e-05] w = [-0.24573619 0.7134689 2.53226728] w\_new= [-0.24573625 0.71346886 2.53226739]

gradient= [-6.44213653e-06 -4.44467971e-06 1.08868162e-05] w = [-0.24573625 0.71346886 2.53226739] w\_new= [-0.24573632 0.71346881 2.5322675 ]

gradient= [-6.43484699e-06 -4.43979389e-06 1.08746409e-05] w = [-0.24573632 0.71346881 2.5322675 ] w\_new= [-0.24573638 0.71346877 2.53226761]

gradient= [-6.42756572e-06 -4.43491341e-06 1.08624791e-05] w = [-0.24573638 0.71346877 2.53226761] w\_new= [-0.24573644 0.71346873 2.53226772]

gradient= [-6.42029273e-06 -4.43003826e-06 1.08503310e-05] w = [-0.24573644 0.71346873 2.53226772] w\_new= [-0.24573651 0.71346868 2.53226783]

gradient= [-6.41302799e-06 -4.42516844e-06 1.08381964e-05] w = [-0.24573651 0.71346868 2.53226783] w\_new= [-0.24573657 0.71346864 2.53226794]

gradient= [-6.40577150e-06 -4.42030394e-06 1.08260754e-05] w = [-0.24573657 0.71346864 2.53226794] w\_new= [-0.24573664 0.71346859 2.53226804]

gradient= [-6.39852325e-06 -4.41544476e-06 1.08139680e-05] w = [-0.24573664 0.71346859 2.53226804] w\_new= [-0.2457367 0.71346855 2.53226815]

gradient= [-6.39128322e-06 -4.41059089e-06 1.08018741e-05] w = [-0.2457367 0.71346855 2.53226815] w\_new= [-0.24573677 0.7134685 2.53226826]

gradient= [-6.38405142e-06 -4.40574231e-06 1.07897937e-05] w = [-0.24573677 0.7134685 2.53226826] w\_new= [-0.24573683 0.71346846 2.53226837]

gradient= [-6.37682783e-06 -4.40089904e-06 1.07777269e-05] w = [-0.24573683 0.71346846 2.53226837] w\_new= [-0.24573689 0.71346842 2.53226848]

gradient= [-6.36961244e-06 -4.39606106e-06 1.07656735e-05] w = [-0.24573689 0.71346842 2.53226848] w\_new= [-0.24573696 0.71346837 2.53226858]

gradient= [-6.36240524e-06 -4.39122837e-06 1.07536336e-05] w = [-0.24573696 0.71346837 2.53226858] w\_new= [-0.24573702 0.71346833 2.53226869]

gradient= [-6.35520623e-06 -4.38640095e-06 1.07416072e-05] w = [-0.24573702 0.71346833 2.53226869] w\_new= [-0.24573708 0.71346828 2.5322688 ]

gradient= [-6.34801538e-06 -4.38157881e-06 1.07295942e-05] w = [-0.24573708 0.71346828 2.5322688 ] w\_new= [-0.24573715 0.71346824 2.53226891]

gradient= [-6.34083270e-06 -4.37676194e-06 1.07175946e-05] w = [-0.24573715 0.71346824 2.53226891] w\_new= [-0.24573721 0.7134682 2.53226901]

gradient= [-6.33365818e-06 -4.37195034e-06 1.07056085e-05] w = [-0.24573721 0.7134682 2.53226901] w\_new= [-0.24573727 0.71346815 2.53226912]

gradient= [-6.32649180e-06 -4.36714399e-06 1.06936358e-05] w = [-0.24573727 0.71346815 2.53226912] w\_new= [-0.24573734 0.71346811 2.53226923]

gradient= [-6.31933356e-06 -4.36234289e-06 1.06816764e-05] w = [-0.24573734 0.71346811 2.53226923] w\_new= [-0.2457374 0.71346807 2.53226933]

gradient= [-6.31218344e-06 -4.35754704e-06 1.06697305e-05] w = [-0.2457374 0.71346807 2.53226933] w\_new= [-0.24573746 0.71346802 2.53226944]

gradient= [-6.30504144e-06 -4.35275643e-06 1.06577979e-05] w = [-0.24573746 0.71346802 2.53226944] w\_new= [-0.24573753 0.71346798 2.53226955]

gradient= [-6.29790755e-06 -4.34797106e-06 1.06458786e-05] w = [-0.24573753 0.71346798 2.53226955] w\_new= [-0.24573759 0.71346794 2.53226965]

gradient= [-6.29078176e-06 -4.34319091e-06 1.06339727e-05] w = [-0.24573759 0.71346794 2.53226965] w\_new= [-0.24573765 0.71346789 2.53226976]

gradient= [-6.28366406e-06 -4.33841599e-06 1.06220800e-05] w = [-0.24573765 0.71346789 2.53226976] w\_new= [-0.24573772 0.71346785 2.53226987]

gradient= [-6.27655443e-06 -4.33364628e-06 1.06102007e-05] w = [-0.24573772 0.71346785 2.53226987] w\_new= [-0.24573778 0.71346781 2.53226997]

gradient= [-6.26945288e-06 -4.32888179e-06 1.05983347e-05] w = [-0.24573778 0.71346781 2.53226997] w\_new= [-0.24573784 0.71346776 2.53227008]

gradient= [-6.26235940e-06 -4.32412251e-06 1.05864819e-05] w = [-0.24573784 0.71346776 2.53227008] w\_new= [-0.2457379 0.71346772 2.53227018]

gradient= [-6.25527396e-06 -4.31936843e-06 1.05746424e-05] w = [-0.2457379 0.71346772 2.53227018] w\_new= [-0.24573797 0.71346768 2.53227029]

gradient= [-6.24819657e-06 -4.31461954e-06 1.05628161e-05] w = [-0.24573797 0.71346768 2.53227029] w\_new= [-0.24573803 0.71346763 2.5322704 ]

gradient= [-6.24112721e-06 -4.30987584e-06 1.05510030e-05] w = [-0.24573803 0.71346763 2.5322704 ] w\_new= [-0.24573809 0.71346759 2.5322705 ]

gradient= [-6.23406588e-06 -4.30513732e-06 1.05392032e-05] w = [-0.24573809 0.71346759 2.5322705 ] w\_new= [-0.24573815 0.71346755 2.53227061]

gradient= [-6.22701256e-06 -4.30040399e-06 1.05274166e-05] w = [-0.24573815 0.71346755 2.53227061] w\_new= [-0.24573822 0.7134675 2.53227071]

gradient= [-6.21996725e-06 -4.29567583e-06 1.05156431e-05] w = [-0.24573822 0.7134675 2.53227071] w\_new= [-0.24573828 0.71346746 2.53227082]

gradient= [-6.21292994e-06 -4.29095283e-06 1.05038828e-05] w = [-0.24573828 0.71346746 2.53227082] w\_new= [-0.24573834 0.71346742 2.53227092]

gradient= [-6.20590062e-06 -4.28623500e-06 1.04921356e-05] w = [-0.24573834 0.71346742 2.53227092] w\_new= [-0.2457384 0.71346737 2.53227103]

gradient= [-6.19887928e-06 -4.28152232e-06 1.04804016e-05] w = [-0.2457384 0.71346737 2.53227103] w\_new= [-0.24573846 0.71346733 2.53227113]

gradient= [-6.19186591e-06 -4.27681479e-06 1.04686807e-05] w = [-0.24573846 0.71346733 2.53227113] w\_new= [-0.24573853 0.71346729 2.53227124]

gradient= [-6.18486050e-06 -4.27211241e-06 1.04569729e-05] w = [-0.24573853 0.71346729 2.53227124] w\_new= [-0.24573859 0.71346725 2.53227134]

gradient= [-6.17786304e-06 -4.26741517e-06 1.04452782e-05] w = [-0.24573859 0.71346725 2.53227134] w\_new= [-0.24573865 0.7134672 2.53227145]

gradient= [-6.17087353e-06 -4.26272306e-06 1.04335966e-05] w = [-0.24573865 0.7134672 2.53227145] w\_new= [-0.24573871 0.71346716 2.53227155]

gradient= [-6.16389195e-06 -4.25803608e-06 1.04219280e-05] w = [-0.24573871 0.71346716 2.53227155] w\_new= [-0.24573877 0.71346712 2.53227165]

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gradient= [-0.00808668 -0.00104168 0.00912836] w = [-0.02012536 0.8964771 2.12364826] w\_new= [-0.02020623 0.89646668 2.12373955]

gradient= [-0.00807498 -0.00104041 0.00911539] w = [-0.02020623 0.89646668 2.12373955] w\_new= [-0.02028698 0.89645627 2.1238307 ]

gradient= [-0.00806329 -0.00103915 0.00910243] w = [-0.02028698 0.89645627 2.1238307 ] w\_new= [-0.02036761 0.89644588 2.12392173]

gradient= [-0.00805161 -0.00103788 0.0090895 ] w = [-0.02036761 0.89644588 2.12392173] w\_new= [-0.02044813 0.8964355 2.12401262]

gradient= [-0.00803996 -0.00103662 0.00907658] w = [-0.02044813 0.8964355 2.12401262] w\_new= [-0.02052852 0.89642514 2.12410339]

gradient= [-0.00802832 -0.00103536 0.00906368] w = [-0.02052852 0.89642514 2.12410339] w\_new= [-0.02060881 0.89641478 2.12419402]

gradient= [-0.0080167 -0.0010341 0.0090508] w = [-0.02060881 0.89641478 2.12419402] w\_new= [-0.02068898 0.89640444 2.12428453]

gradient= [-0.0080051 -0.00103284 0.00903794] w = [-0.02068898 0.89640444 2.12428453] w\_new= [-0.02076903 0.89639412 2.12437491]

gradient= [-0.00799351 -0.00103159 0.0090251 ] w = [-0.02076903 0.89639412 2.12437491] w\_new= [-0.02084896 0.8963838 2.12446516]

gradient= [-0.00798195 -0.00103033 0.00901228] w = [-0.02084896 0.8963838 2.12446516] w\_new= [-0.02092878 0.8963735 2.12455528]

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gradient= [-0.00795886 -0.00102783 0.00898669] w = [-0.02100848 0.89636321 2.12464528] w\_new= [-0.02108807 0.89635293 2.12473515]

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gradient= [-0.00793584 -0.00102533 0.00896117] w = [-0.02116755 0.89634266 2.12482489] w\_new= [-0.02124691 0.89633241 2.1249145 ]

gradient= [-0.00792436 -0.00102408 0.00894844] w = [-0.02124691 0.89633241 2.1249145 ] w\_new= [-0.02132615 0.89632217 2.12500398]

gradient= [-0.0079129 -0.00102284 0.00893573] w = [-0.02132615 0.89632217 2.12500398] w\_new= [-0.02140528 0.89631194 2.12509334]

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gradient= [-0.00789002 -0.00102035 0.00891037] w = [-0.02148429 0.89630172 2.12518257] w\_new= [-0.02156319 0.89629152 2.12527167]

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gradient= [-0.00784446 -0.0010154 0.00885986] w = [-0.02179921 0.89626098 2.12553823] w\_new= [-0.02187765 0.89625083 2.12562682]

gradient= [-0.00783311 -0.00101416 0.00884728] w = [-0.02187765 0.89625083 2.12562682] w\_new= [-0.02195598 0.89624069 2.1257153 ]

gradient= [-0.00782178 -0.00101293 0.00883471] w = [-0.02195598 0.89624069 2.1257153 ] w\_new= [-0.0220342 0.89623056 2.12580364]

gradient= [-0.00781047 -0.0010117 0.00882217] w = [-0.0220342 0.89623056 2.12580364] w\_new= [-0.02211231 0.89622044 2.12589187]

gradient= [-0.00779917 -0.00101047 0.00880964] w = [-0.02211231 0.89622044 2.12589187] w\_new= [-0.0221903 0.89621034 2.12597996]

gradient= [-0.00778789 -0.00100924 0.00879713] w = [-0.0221903 0.89621034 2.12597996] w\_new= [-0.02226818 0.89620024 2.12606793]

gradient= [-0.00777663 -0.00100802 0.00878464] w = [-0.02226818 0.89620024 2.12606793] w\_new= [-0.02234594 0.89619016 2.12615578]

gradient= [-0.00776538 -0.00100679 0.00877217] w = [-0.02234594 0.89619016 2.12615578] w\_new= [-0.0224236 0.8961801 2.1262435]

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gradient= [-0.00769825 -0.00099947 0.00869773] w = [-0.02281019 0.89612994 2.12668025] w\_new= [-0.02288717 0.89611995 2.12676722]

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gradient= [-0.00763172 -0.00099221 0.00862393] w = [-0.02327041 0.89607015 2.12720026] w\_new= [-0.02334673 0.89606023 2.1272865 ]

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gradient= [-0.00753302 -0.00098141 0.00851443] w = [-0.02395331 0.89598129 2.12797202] w\_new= [-0.02402864 0.89597147 2.12805717]

gradient= [-0.00752214 -0.00098022 0.00850236] w = [-0.02402864 0.89597147 2.12805717] w\_new= [-0.02410386 0.89596167 2.12814219]

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gradient= [-0.00750041 -0.00097784 0.00847826] w = [-0.02417898 0.89595188 2.1282271 ] w\_new= [-0.02425398 0.8959421 2.12831188]

gradient= [-0.00748958 -0.00097665 0.00846623] w = [-0.02425398 0.8959421 2.12831188] w\_new= [-0.02432888 0.89593234 2.12839654]

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gradient= [-0.00745716 -0.0009731 0.00843026] w = [-0.02447834 0.89591284 2.1285655 ] w\_new= [-0.02455291 0.89590311 2.12864981]

gradient= [-0.00744639 -0.00097192 0.00841831] w = [-0.02455291 0.89590311 2.12864981] w\_new= [-0.02462738 0.89589339 2.12873399]

gradient= [-0.00743563 -0.00097074 0.00840637] w = [-0.02462738 0.89589339 2.12873399] w\_new= [-0.02470173 0.89588368 2.12881805]

gradient= [-0.00742489 -0.00096956 0.00839445] w = [-0.02470173 0.89588368 2.12881805] w\_new= [-0.02477598 0.89587398 2.128902 ]

gradient= [-0.00741416 -0.00096838 0.00838255] w = [-0.02477598 0.89587398 2.128902 ] w\_new= [-0.02485013 0.8958643 2.12898582]

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gradient= [-0.00737142 -0.00096369 0.00833511] w = [-0.02507191 0.89583532 2.12923659] w\_new= [-0.02514562 0.89582568 2.12931994]

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gradient= [-0.00735015 -0.00096135 0.0083115 ] w = [-0.02521923 0.89581606 2.12940317] w\_new= [-0.02529273 0.89580644 2.12948629]

gradient= [-0.00733953 -0.00096018 0.00829971] w = [-0.02529273 0.89580644 2.12948629] w\_new= [-0.02536613 0.89579684 2.12956928]

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gradient= [-0.00730778 -0.00095669 0.00826447] w = [-0.0255126 0.89577767 2.12973493] w\_new= [-0.02558568 0.89576811 2.12981757]

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gradient= [-0.0072238 -0.00094744 0.00817124] w = [-0.02609428 0.89570146 2.13039281] w\_new= [-0.02616651 0.89569199 2.13047453]

gradient= [-0.00721337 -0.00094629 0.00815966] w = [-0.02616651 0.89569199 2.13047453] w\_new= [-0.02623865 0.89568253 2.13055612]

gradient= [-0.00720296 -0.00094514 0.0081481 ] w = [-0.02623865 0.89568253 2.13055612] w\_new= [-0.02631068 0.89567307 2.1306376 ]

gradient= [-0.00719256 -0.000944 0.00813656] w = [-0.02631068 0.89567307 2.1306376 ] w\_new= [-0.0263826 0.89566363 2.13071897]

gradient= [-0.00718218 -0.00094285 0.00812503] w = [-0.0263826 0.89566363 2.13071897] w\_new= [-0.02645443 0.89565421 2.13080022]

gradient= [-0.00717182 -0.00094171 0.00811352] w = [-0.02645443 0.89565421 2.13080022] w\_new= [-0.02652614 0.89564479 2.13088135]

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gradient= [-0.00715113 -0.00093942 0.00809055] w = [-0.02659776 0.89563538 2.13096237] w\_new= [-0.02666927 0.89562599 2.13104328]

gradient= [-0.00714081 -0.00093828 0.00807909] w = [-0.02666927 0.89562599 2.13104328] w\_new= [-0.02674068 0.89561661 2.13112407]

gradient= [-0.0071305 -0.00093714 0.00806765] w = [-0.02674068 0.89561661 2.13112407] w\_new= [-0.02681198 0.89560723 2.13120475]

gradient= [-0.00712021 -0.00093601 0.00805622] w = [-0.02681198 0.89560723 2.13120475] w\_new= [-0.02688318 0.89559787 2.13128531]

gradient= [-0.00710994 -0.00093487 0.00804481] w = [-0.02688318 0.89559787 2.13128531] w\_new= [-0.02695428 0.89558853 2.13136576]

gradient= [-0.00709968 -0.00093374 0.00803342] w = [-0.02695428 0.89558853 2.13136576] w\_new= [-0.02702528 0.89557919 2.13144609]

gradient= [-0.00708944 -0.0009326 0.00802204] w = [-0.02702528 0.89557919 2.13144609] w\_new= [-0.02709618 0.89556986 2.13152631]

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gradient= [-0.00706899 -0.00093034 0.00799934] w = [-0.02716697 0.89556055 2.13160642] w\_new= [-0.02723766 0.89555124 2.13168641]

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gradient= [-0.00700802 -0.00092359 0.00793162] w = [-0.02758958 0.8955049 2.13208468] w\_new= [-0.02765966 0.89549566 2.132164 ]

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gradient= [-0.00697774 -0.00092024 0.00789798] w = [-0.02779952 0.89547722 2.1323223 ] w\_new= [-0.02786929 0.89546802 2.13240128]

gradient= [-0.00696768 -0.00091912 0.0078868 ] w = [-0.02786929 0.89546802 2.13240128] w\_new= [-0.02793897 0.89545883 2.13248014]

gradient= [-0.00695763 -0.000918 0.00787563] w = [-0.02793897 0.89545883 2.13248014] w\_new= [-0.02800855 0.89544965 2.1325589 ]

gradient= [-0.00694759 -0.00091689 0.00786448] w = [-0.02800855 0.89544965 2.1325589 ] w\_new= [-0.02807802 0.89544048 2.13263754]

gradient= [-0.00693757 -0.00091578 0.00785335] w = [-0.02807802 0.89544048 2.13263754] w\_new= [-0.0281474 0.89543132 2.13271608]

gradient= [-0.00692757 -0.00091467 0.00784224] w = [-0.0281474 0.89543132 2.13271608] w\_new= [-0.02821668 0.89542218 2.1327945 ]

gradient= [-0.00691758 -0.00091356 0.00783114] w = [-0.02821668 0.89542218 2.1327945 ] w\_new= [-0.02828585 0.89541304 2.13287281]

gradient= [-0.0069076 -0.00091245 0.00782005] w = [-0.02828585 0.89541304 2.13287281] w\_new= [-0.02835493 0.89540391 2.13295101]

gradient= [-0.00689764 -0.00091134 0.00780899] w = [-0.02835493 0.89540391 2.13295101] w\_new= [-0.0284239 0.8953948 2.1330291]

gradient= [-0.0068877 -0.00091024 0.00779794] w = [-0.0284239 0.8953948 2.1330291] w\_new= [-0.02849278 0.8953857 2.13310708]

gradient= [-0.00687776 -0.00090914 0.0077869 ] w = [-0.02849278 0.8953857 2.13310708] w\_new= [-0.02856156 0.89537661 2.13318495]

gradient= [-0.00686785 -0.00090803 0.00777588] w = [-0.02856156 0.89537661 2.13318495] w\_new= [-0.02863024 0.89536753 2.13326271]

gradient= [-0.00685795 -0.00090693 0.00776488] w = [-0.02863024 0.89536753 2.13326271] w\_new= [-0.02869882 0.89535846 2.13334036]

gradient= [-0.00684806 -0.00090583 0.00775389] w = [-0.02869882 0.89535846 2.13334036] w\_new= [-0.0287673 0.8953494 2.1334179]

gradient= [-0.00683819 -0.00090473 0.00774292] w = [-0.0287673 0.8953494 2.1334179] w\_new= [-0.02883568 0.89534035 2.13349533]

gradient= [-0.00682833 -0.00090364 0.00773196] w = [-0.02883568 0.89534035 2.13349533] w\_new= [-0.02890396 0.89533132 2.13357265]

gradient= [-0.00681848 -0.00090254 0.00772102] w = [-0.02890396 0.89533132 2.13357265] w\_new= [-0.02897215 0.89532229 2.13364986]

gradient= [-0.00680865 -0.00090145 0.0077101 ] w = [-0.02897215 0.89532229 2.13364986] w\_new= [-0.02904023 0.89531328 2.13372696]

gradient= [-0.00679884 -0.00090035 0.00769919] w = [-0.02904023 0.89531328 2.13372696] w\_new= [-0.02910822 0.89530427 2.13380395]

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gradient= [-0.00677925 -0.00089817 0.00767743] w = [-0.02917611 0.89529528 2.13388083] w\_new= [-0.0292439 0.8952863 2.13395761]

gradient= [-0.00676948 -0.00089708 0.00766657] w = [-0.0292439 0.8952863 2.13395761] w\_new= [-0.0293116 0.89527733 2.13403427]

gradient= [-0.00675972 -0.000896 0.00765572] w = [-0.0293116 0.89527733 2.13403427] w\_new= [-0.0293792 0.89526837 2.13411083]

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gradient= [-0.00673054 -0.00089274 0.00762328] w = [-0.0295141 0.89525048 2.13426362] w\_new= [-0.0295814 0.89524155 2.13433985]

gradient= [-0.00672084 -0.00089166 0.0076125 ] w = [-0.0295814 0.89524155 2.13433985] w\_new= [-0.02964861 0.89523264 2.13441598]

gradient= [-0.00671115 -0.00089058 0.00760173] w = [-0.02964861 0.89523264 2.13441598] w\_new= [-0.02971572 0.89522373 2.13449199]

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gradient= [-0.00666294 -0.00088519 0.00754814] w = [-0.0299832 0.89518822 2.13479499] w\_new= [-0.03004983 0.89517936 2.13487047]

gradient= [-0.00665334 -0.00088412 0.00753746] w = [-0.03004983 0.89517936 2.13487047] w\_new= [-0.03011637 0.89517052 2.13494585]

gradient= [-0.00664376 -0.00088305 0.00752681] w = [-0.03011637 0.89517052 2.13494585] w\_new= [-0.03018281 0.89516169 2.13502111]

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gradient= [-0.00656758 -0.00087452 0.0074421 ] w = [-0.0306452 0.89510018 2.13554502] w\_new= [-0.03071087 0.89509143 2.13561944]

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gradient= [-0.00231798 -0.00036135 0.00267932] w = [-0.06037341 0.89086346 2.16950995] w\_new= [-0.06039659 0.89085985 2.16953674]

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gradient= [-0.00229833 -0.00035872 0.00265704] w = [-0.060512 0.89084185 2.16967015] w\_new= [-0.06053498 0.89083826 2.16969672]

gradient= [-0.00229507 -0.00035828 0.00265335] w = [-0.06053498 0.89083826 2.16969672] w\_new= [-0.06055793 0.89083468 2.16972325]

gradient= [-0.00229181 -0.00035784 0.00264966] w = [-0.06055793 0.89083468 2.16972325] w\_new= [-0.06058085 0.8908311 2.16974975]

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gradient= [-0.00227884 -0.0003561 0.00263495] w = [-0.06064941 0.89082039 2.16982902] w\_new= [-0.0606722 0.89081683 2.16985537]

gradient= [-0.00227561 -0.00035567 0.00263128] w = [-0.0606722 0.89081683 2.16985537] w\_new= [-0.06069495 0.89081327 2.16988168]

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gradient= [-0.00224037 -0.00035094 0.00259131] w = [-0.06092075 0.89077794 2.1701428 ] w\_new= [-0.06094315 0.89077443 2.17016872]

gradient= [-0.0022372 -0.00035051 0.0025877 ] w = [-0.06094315 0.89077443 2.17016872] w\_new= [-0.06096552 0.89077093 2.17019459]

gradient= [-0.00223403 -0.00035008 0.00258411] w = [-0.06096552 0.89077093 2.17019459] w\_new= [-0.06098786 0.89076743 2.17022043]

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gradient= [-0.0022277 -0.00034923 0.00257693] w = [-0.06101017 0.89076393 2.17024624] w\_new= [-0.06103245 0.89076044 2.17027201]

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gradient= [-0.00221824 -0.00034795 0.00256619] w = [-0.06107691 0.89075347 2.17032344] w\_new= [-0.06109909 0.89074999 2.1703491 ]

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gradient= [-0.00219632 -0.000345 0.00254132] w = [-0.06123152 0.8907292 2.17050232] w\_new= [-0.06125349 0.89072575 2.17052774]

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gradient= [-0.0021808 -0.0003429 0.0025237] w = [-0.06134103 0.89071199 2.17062904] w\_new= [-0.06136284 0.89070856 2.17065427]

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gradient= [-0.00216232 -0.0003404 0.00250272] w = [-0.06147142 0.89069148 2.17077993] w\_new= [-0.06149304 0.89068808 2.17080496]

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gradient= [-0.00213187 -0.00033628 0.00246815] w = [-0.06168627 0.89065763 2.17102865] w\_new= [-0.06170759 0.89065426 2.17105333]

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gradient= [-0.00212584 -0.00033546 0.0024613 ] w = [-0.06172888 0.8906509 2.17107798] w\_new= [-0.06175014 0.89064755 2.17110259]

gradient= [-0.00212282 -0.00033505 0.00245787] w = [-0.06175014 0.89064755 2.17110259] w\_new= [-0.06177137 0.8906442 2.17112717]

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gradient= [-0.00201149 -0.00031987 0.00233137] w = [-0.06253602 0.89052306 2.17201296] w\_new= [-0.06255614 0.89051986 2.17203628]

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gradient= [-0.00196918 -0.00031407 0.00228325] w = [-0.06283478 0.89047549 2.17235929] w\_new= [-0.06285447 0.89047235 2.17238212]

gradient= [-0.0019664 -0.00031369 0.00228008] w = [-0.06285447 0.89047235 2.17238212] w\_new= [-0.06287413 0.89046921 2.17240492]

gradient= [-0.00196361 -0.0003133 0.00227692] w = [-0.06287413 0.89046921 2.17240492] w\_new= [-0.06289377 0.89046608 2.17242769]

gradient= [-0.00196083 -0.00031292 0.00227375] w = [-0.06289377 0.89046608 2.17242769] w\_new= [-0.06291338 0.89046295 2.17245043]

gradient= [-0.00195805 -0.00031254 0.00227059] w = [-0.06291338 0.89046295 2.17245043] w\_new= [-0.06293296 0.89045982 2.17247313]

gradient= [-0.00195528 -0.00031216 0.00226744] w = [-0.06293296 0.89045982 2.17247313] w\_new= [-0.06295251 0.8904567 2.17249581]

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gradient= [-0.00194975 -0.0003114 0.00226115] w = [-0.06297203 0.89045358 2.17251845] w\_new= [-0.06299153 0.89045047 2.17254106]

gradient= [-0.00194699 -0.00031102 0.002258 ] w = [-0.06299153 0.89045047 2.17254106] w\_new= [-0.063011 0.89044736 2.17256364]

gradient= [-0.00194423 -0.00031064 0.00225487] w = [-0.063011 0.89044736 2.17256364] w\_new= [-0.06303044 0.89044425 2.17258619]

gradient= [-0.00194148 -0.00031026 0.00225174] w = [-0.06303044 0.89044425 2.17258619] w\_new= [-0.06304986 0.89044115 2.17260871]

gradient= [-0.00193873 -0.00030988 0.00224861] w = [-0.06304986 0.89044115 2.17260871] w\_new= [-0.06306925 0.89043805 2.17263119]

gradient= [-0.00193599 -0.0003095 0.00224549] w = [-0.06306925 0.89043805 2.17263119] w\_new= [-0.06308861 0.89043496 2.17265365]

gradient= [-0.00193324 -0.00030912 0.00224237] w = [-0.06308861 0.89043496 2.17265365] w\_new= [-0.06310794 0.89043186 2.17267607]

gradient= [-0.00193051 -0.00030875 0.00223925] w = [-0.06310794 0.89043186 2.17267607] w\_new= [-0.06312724 0.89042878 2.17269847]

gradient= [-0.00192777 -0.00030837 0.00223614] w = [-0.06312724 0.89042878 2.17269847] w\_new= [-0.06314652 0.89042569 2.17272083]

gradient= [-0.00192504 -0.00030799 0.00223304] w = [-0.06314652 0.89042569 2.17272083] w\_new= [-0.06316577 0.89042261 2.17274316]

gradient= [-0.00192232 -0.00030762 0.00222994] w = [-0.06316577 0.89042261 2.17274316] w\_new= [-0.06318499 0.89041954 2.17276546]

gradient= [-0.0019196 -0.00030724 0.00222684] w = [-0.06318499 0.89041954 2.17276546] w\_new= [-0.06320419 0.89041647 2.17278773]

gradient= [-0.00191688 -0.00030687 0.00222375] w = [-0.06320419 0.89041647 2.17278773] w\_new= [-0.06322336 0.8904134 2.17280996]

gradient= [-0.00191417 -0.00030649 0.00222066] w = [-0.06322336 0.8904134 2.17280996] w\_new= [-0.0632425 0.89041033 2.17283217]

gradient= [-0.00191146 -0.00030612 0.00221757] w = [-0.0632425 0.89041033 2.17283217] w\_new= [-0.06326162 0.89040727 2.17285435]

gradient= [-0.00190875 -0.00030574 0.00221449] w = [-0.06326162 0.89040727 2.17285435] w\_new= [-0.0632807 0.89040421 2.17287649]

gradient= [-0.00190605 -0.00030537 0.00221142] w = [-0.0632807 0.89040421 2.17287649] w\_new= [-0.06329976 0.89040116 2.1728986 ]

gradient= [-0.00190335 -0.000305 0.00220835] w = [-0.06329976 0.89040116 2.1728986 ] w\_new= [-0.0633188 0.89039811 2.17292069]

gradient= [-0.00190066 -0.00030462 0.00220528] w = [-0.0633188 0.89039811 2.17292069] w\_new= [-0.0633378 0.89039506 2.17294274]

gradient= [-0.00189796 -0.00030425 0.00220222] w = [-0.0633378 0.89039506 2.17294274] w\_new= [-0.06335678 0.89039202 2.17296476]

gradient= [-0.00189528 -0.00030388 0.00219916] w = [-0.06335678 0.89039202 2.17296476] w\_new= [-0.06337574 0.89038898 2.17298675]

gradient= [-0.00189259 -0.00030351 0.00219611] w = [-0.06337574 0.89038898 2.17298675] w\_new= [-0.06339466 0.89038595 2.17300872]

gradient= [-0.00188992 -0.00030314 0.00219306] w = [-0.06339466 0.89038595 2.17300872] w\_new= [-0.06341356 0.89038292 2.17303065]

gradient= [-0.00188724 -0.00030277 0.00219001] w = [-0.06341356 0.89038292 2.17303065] w\_new= [-0.06343243 0.89037989 2.17305255]

gradient= [-0.00188457 -0.0003024 0.00218697] w = [-0.06343243 0.89037989 2.17305255] w\_new= [-0.06345128 0.89037686 2.17307442]

gradient= [-0.0018819 -0.00030203 0.00218393] w = [-0.06345128 0.89037686 2.17307442] w\_new= [-0.0634701 0.89037384 2.17309626]

gradient= [-0.00187924 -0.00030166 0.0021809 ] w = [-0.0634701 0.89037384 2.17309626] w\_new= [-0.06348889 0.89037083 2.17311806]

gradient= [-0.00187658 -0.00030129 0.00217787] w = [-0.06348889 0.89037083 2.17311806] w\_new= [-0.06350766 0.89036781 2.17313984]

gradient= [-0.00187392 -0.00030093 0.00217485] w = [-0.06350766 0.89036781 2.17313984] w\_new= [-0.0635264 0.8903648 2.17316159]

gradient= [-0.00187127 -0.00030056 0.00217183] w = [-0.0635264 0.8903648 2.17316159] w\_new= [-0.06354511 0.8903618 2.17318331]

gradient= [-0.00186862 -0.00030019 0.00216881] w = [-0.06354511 0.8903618 2.17318331] w\_new= [-0.06356379 0.8903588 2.173205 ]

gradient= [-0.00186598 -0.00029982 0.0021658 ] w = [-0.06356379 0.8903588 2.173205 ] w\_new= [-0.06358245 0.8903558 2.17322666]

gradient= [-0.00186333 -0.00029946 0.00216279] w = [-0.06358245 0.8903558 2.17322666] w\_new= [-0.06360109 0.8903528 2.17324828]

gradient= [-0.0018607 -0.00029909 0.00215979] w = [-0.06360109 0.8903528 2.17324828] w\_new= [-0.06361969 0.89034981 2.17326988]

gradient= [-0.00185806 -0.00029873 0.00215679] w = [-0.06361969 0.89034981 2.17326988] w\_new= [-0.06363828 0.89034683 2.17329145]

gradient= [-0.00185543 -0.00029836 0.0021538 ] w = [-0.06363828 0.89034683 2.17329145] w\_new= [-0.06365683 0.89034384 2.17331299]

gradient= [-0.00185281 -0.000298 0.00215081] w = [-0.06365683 0.89034384 2.17331299] w\_new= [-0.06367536 0.89034086 2.1733345 ]

gradient= [-0.00185018 -0.00029763 0.00214782] w = [-0.06367536 0.89034086 2.1733345 ] w\_new= [-0.06369386 0.89033789 2.17335597]

gradient= [-0.00184757 -0.00029727 0.00214484] w = [-0.06369386 0.89033789 2.17335597] w\_new= [-0.06371234 0.89033491 2.17337742]

gradient= [-0.00184495 -0.00029691 0.00214186] w = [-0.06371234 0.89033491 2.17337742] w\_new= [-0.06373078 0.89033194 2.17339884]

gradient= [-0.00184234 -0.00029654 0.00213888] w = [-0.06373078 0.89033194 2.17339884] w\_new= [-0.06374921 0.89032898 2.17342023]

gradient= [-0.00183973 -0.00029618 0.00213592] w = [-0.06374921 0.89032898 2.17342023] w\_new= [-0.06376761 0.89032602 2.17344159]

gradient= [-0.00183713 -0.00029582 0.00213295] w = [-0.06376761 0.89032602 2.17344159] w\_new= [-0.06378598 0.89032306 2.17346292]

gradient= [-0.00183453 -0.00029546 0.00212999] w = [-0.06378598 0.89032306 2.17346292] w\_new= [-0.06380432 0.8903201 2.17348422]

gradient= [-0.00183193 -0.0002951 0.00212703] w = [-0.06380432 0.8903201 2.17348422] w\_new= [-0.06382264 0.89031715 2.17350549]

gradient= [-0.00182934 -0.00029474 0.00212408] w = [-0.06382264 0.89031715 2.17350549] w\_new= [-0.06384093 0.89031421 2.17352673]

gradient= [-0.00182675 -0.00029438 0.00212113] w = [-0.06384093 0.89031421 2.17352673] w\_new= [-0.0638592 0.89031126 2.17354794]

gradient= [-0.00182417 -0.00029402 0.00211818] w = [-0.0638592 0.89031126 2.17354794] w\_new= [-0.06387744 0.89030832 2.17356912]

gradient= [-0.00182158 -0.00029366 0.00211524] w = [-0.06387744 0.89030832 2.17356912] w\_new= [-0.06389566 0.89030539 2.17359027]

gradient= [-0.00181901 -0.0002933 0.00211231] w = [-0.06389566 0.89030539 2.17359027] w\_new= [-0.06391385 0.89030245 2.1736114 ]

gradient= [-0.00181643 -0.00029294 0.00210937] w = [-0.06391385 0.89030245 2.1736114 ] w\_new= [-0.06393201 0.89029952 2.17363249]

gradient= [-0.00181386 -0.00029258 0.00210645] w = [-0.06393201 0.89029952 2.17363249] w\_new= [-0.06395015 0.8902966 2.17365356]

gradient= [-0.0018113 -0.00029223 0.00210352] w = [-0.06395015 0.8902966 2.17365356] w\_new= [-0.06396827 0.89029367 2.17367459]

gradient= [-0.00180873 -0.00029187 0.0021006 ] w = [-0.06396827 0.89029367 2.17367459] w\_new= [-0.06398635 0.89029076 2.1736956 ]

gradient= [-0.00180617 -0.00029151 0.00209769] w = [-0.06398635 0.89029076 2.1736956 ] w\_new= [-0.06400441 0.89028784 2.17371657]

gradient= [-0.00180362 -0.00029116 0.00209477] w = [-0.06400441 0.89028784 2.17371657] w\_new= [-0.06402245 0.89028493 2.17373752]

gradient= [-0.00180106 -0.0002908 0.00209187] w = [-0.06402245 0.89028493 2.17373752] w\_new= [-0.06404046 0.89028202 2.17375844]

gradient= [-0.00179852 -0.00029045 0.00208896] w = [-0.06404046 0.89028202 2.17375844] w\_new= [-0.06405845 0.89027912 2.17377933]

gradient= [-0.00179597 -0.00029009 0.00208606] w = [-0.06405845 0.89027912 2.17377933] w\_new= [-0.06407641 0.89027622 2.17380019]

gradient= [-0.00179343 -0.00028974 0.00208317] w = [-0.06407641 0.89027622 2.17380019] w\_new= [-0.06409434 0.89027332 2.17382102]

gradient= [-0.00179089 -0.00028938 0.00208027] w = [-0.06409434 0.89027332 2.17382102] w\_new= [-0.06411225 0.89027042 2.17384183]

gradient= [-0.00178836 -0.00028903 0.00207739] w = [-0.06411225 0.89027042 2.17384183] w\_new= [-0.06413013 0.89026753 2.1738626 ]

gradient= [-0.00178583 -0.00028868 0.0020745 ] w = [-0.06413013 0.89026753 2.1738626 ] w\_new= [-0.06414799 0.89026465 2.17388334]

gradient= [-0.0017833 -0.00028832 0.00207162] w = [-0.06414799 0.89026465 2.17388334] w\_new= [-0.06416582 0.89026176 2.17390406]

gradient= [-0.00178078 -0.00028797 0.00206875] w = [-0.06416582 0.89026176 2.17390406] w\_new= [-0.06418363 0.89025888 2.17392475]

gradient= [-0.00177826 -0.00028762 0.00206588] w = [-0.06418363 0.89025888 2.17392475] w\_new= [-0.06420141 0.89025601 2.17394541]

gradient= [-0.00177574 -0.00028727 0.00206301] w = [-0.06420141 0.89025601 2.17394541] w\_new= [-0.06421917 0.89025314 2.17396604]

gradient= [-0.00177323 -0.00028692 0.00206014] w = [-0.06421917 0.89025314 2.17396604] w\_new= [-0.0642369 0.89025027 2.17398664]

gradient= [-0.00177072 -0.00028656 0.00205729] w = [-0.0642369 0.89025027 2.17398664] w\_new= [-0.06425461 0.8902474 2.17400721]

gradient= [-0.00176822 -0.00028621 0.00205443] w = [-0.06425461 0.8902474 2.17400721] w\_new= [-0.06427229 0.89024454 2.17402776]

gradient= [-0.00176571 -0.00028586 0.00205158] w = [-0.06427229 0.89024454 2.17402776] w\_new= [-0.06428995 0.89024168 2.17404827]

gradient= [-0.00176322 -0.00028552 0.00204873] w = [-0.06428995 0.89024168 2.17404827] w\_new= [-0.06430758 0.89023883 2.17406876]

gradient= [-0.00176072 -0.00028517 0.00204589] w = [-0.06430758 0.89023883 2.17406876] w\_new= [-0.06432519 0.89023597 2.17408922]

gradient= [-0.00175823 -0.00028482 0.00204305] w = [-0.06432519 0.89023597 2.17408922] w\_new= [-0.06434277 0.89023313 2.17410965]

gradient= [-0.00175574 -0.00028447 0.00204021] w = [-0.06434277 0.89023313 2.17410965] w\_new= [-0.06436033 0.89023028 2.17413005]

gradient= [-0.00175326 -0.00028412 0.00203738] w = [-0.06436033 0.89023028 2.17413005] w\_new= [-0.06437786 0.89022744 2.17415042]

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gradient= [-0.00174583 -0.00028308 0.00202891] w = [-0.06441285 0.89022177 2.17419109] w\_new= [-0.06443031 0.89021894 2.17421138]

gradient= [-0.00174336 -0.00028273 0.00202609] w = [-0.06443031 0.89021894 2.17421138] w\_new= [-0.06444775 0.89021611 2.17423164]

gradient= [-0.00174089 -0.00028239 0.00202328] w = [-0.06444775 0.89021611 2.17423164] w\_new= [-0.06446515 0.89021329 2.17425187]

gradient= [-0.00173843 -0.00028204 0.00202047] w = [-0.06446515 0.89021329 2.17425187] w\_new= [-0.06448254 0.89021046 2.17427207]

gradient= [-0.00173597 -0.0002817 0.00201767] w = [-0.06448254 0.89021046 2.17427207] w\_new= [-0.0644999 0.89020765 2.17429225]

gradient= [-0.00173351 -0.00028135 0.00201487] w = [-0.0644999 0.89020765 2.17429225] w\_new= [-0.06451723 0.89020483 2.1743124 ]

gradient= [-0.00173106 -0.00028101 0.00201207] w = [-0.06451723 0.89020483 2.1743124 ] w\_new= [-0.06453454 0.89020202 2.17433252]

gradient= [-0.00172861 -0.00028067 0.00200928] w = [-0.06453454 0.89020202 2.17433252] w\_new= [-0.06455183 0.89019922 2.17435261]

gradient= [-0.00172617 -0.00028032 0.00200649] w = [-0.06455183 0.89019922 2.17435261] w\_new= [-0.06456909 0.89019641 2.17437268]

gradient= [-0.00172373 -0.00027998 0.00200371] w = [-0.06456909 0.89019641 2.17437268] w\_new= [-0.06458633 0.89019361 2.17439271]

gradient= [-0.00172129 -0.00027964 0.00200093] w = [-0.06458633 0.89019361 2.17439271] w\_new= [-0.06460354 0.89019082 2.17441272]

gradient= [-0.00171885 -0.0002793 0.00199815] w = [-0.06460354 0.89019082 2.17441272] w\_new= [-0.06462073 0.89018803 2.17443271]

gradient= [-0.00171642 -0.00027895 0.00199538] w = [-0.06462073 0.89018803 2.17443271] w\_new= [-0.06463789 0.89018524 2.17445266]

gradient= [-0.00171399 -0.00027861 0.00199261] w = [-0.06463789 0.89018524 2.17445266] w\_new= [-0.06465503 0.89018245 2.17447259]

gradient= [-0.00171157 -0.00027827 0.00198984] w = [-0.06465503 0.89018245 2.17447259] w\_new= [-0.06467215 0.89017967 2.17449248]

gradient= [-0.00170915 -0.00027793 0.00198708] w = [-0.06467215 0.89017967 2.17449248] w\_new= [-0.06468924 0.89017689 2.17451235]

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gradient= [-0.00170191 -0.00027691 0.00197882] w = [-0.06472335 0.89017134 2.17455201] w\_new= [-0.06474037 0.89016857 2.1745718 ]

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gradient= [-0.00169469 -0.0002759 0.00197059] w = [-0.06477434 0.89016304 2.1746113 ] w\_new= [-0.06479128 0.89016028 2.174631 ]

gradient= [-0.0016923 -0.00027556 0.00196786] w = [-0.06479128 0.89016028 2.174631 ] w\_new= [-0.06480821 0.89015753 2.17465068]

gradient= [-0.0016899 -0.00027522 0.00196513] w = [-0.06480821 0.89015753 2.17465068] w\_new= [-0.06482511 0.89015477 2.17467033]

gradient= [-0.00168751 -0.00027489 0.0019624 ] w = [-0.06482511 0.89015477 2.17467033] w\_new= [-0.06484198 0.89015203 2.17468996]

gradient= [-0.00168513 -0.00027455 0.00195968] w = [-0.06484198 0.89015203 2.17468996] w\_new= [-0.06485883 0.89014928 2.17470955]

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gradient= [-0.00168036 -0.00027388 0.00195424] w = [-0.06487566 0.89014654 2.17472912] w\_new= [-0.06489246 0.8901438 2.17474866]

gradient= [-0.00167799 -0.00027355 0.00195153] w = [-0.06489246 0.8901438 2.17474866] w\_new= [-0.06490924 0.89014106 2.17476818]

gradient= [-0.00167561 -0.00027321 0.00194882] w = [-0.06490924 0.89014106 2.17476818] w\_new= [-0.064926 0.89013833 2.17478767]

gradient= [-0.00167324 -0.00027288 0.00194612] w = [-0.064926 0.89013833 2.17478767] w\_new= [-0.06494273 0.8901356 2.17480713]

gradient= [-0.00167088 -0.00027254 0.00194342] w = [-0.06494273 0.8901356 2.17480713] w\_new= [-0.06495944 0.89013288 2.17482656]

gradient= [-0.00166852 -0.00027221 0.00194072] w = [-0.06495944 0.89013288 2.17482656] w\_new= [-0.06497613 0.89013016 2.17484597]

gradient= [-0.00166616 -0.00027188 0.00193803] w = [-0.06497613 0.89013016 2.17484597] w\_new= [-0.06499279 0.89012744 2.17486535]

gradient= [-0.0016638 -0.00027154 0.00193534] w = [-0.06499279 0.89012744 2.17486535] w\_new= [-0.06500943 0.89012472 2.1748847 ]

gradient= [-0.00166145 -0.00027121 0.00193266] w = [-0.06500943 0.89012472 2.1748847 ] w\_new= [-0.06502604 0.89012201 2.17490403]

gradient= [-0.0016591 -0.00027088 0.00192998] w = [-0.06502604 0.89012201 2.17490403] w\_new= [-0.06504263 0.8901193 2.17492333]

gradient= [-0.00165675 -0.00027055 0.0019273 ] w = [-0.06504263 0.8901193 2.17492333] w\_new= [-0.0650592 0.89011659 2.1749426 ]

gradient= [-0.00165441 -0.00027022 0.00192462] w = [-0.0650592 0.89011659 2.1749426 ] w\_new= [-0.06507574 0.89011389 2.17496185]

gradient= [-0.00165207 -0.00026989 0.00192195] w = [-0.06507574 0.89011389 2.17496185] w\_new= [-0.06509226 0.89011119 2.17498107]

gradient= [-0.00164973 -0.00026956 0.00191929] w = [-0.06509226 0.89011119 2.17498107] w\_new= [-0.06510876 0.8901085 2.17500026]

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gradient= [-0.00164507 -0.0002689 0.00191397] w = [-0.06512523 0.89010581 2.17501943] w\_new= [-0.06514169 0.89010312 2.17503857]

gradient= [-0.00164274 -0.00026857 0.00191131] w = [-0.06514169 0.89010312 2.17503857] w\_new= [-0.06515811 0.89010043 2.17505768]

gradient= [-0.00164042 -0.00026824 0.00190866] w = [-0.06515811 0.89010043 2.17505768] w\_new= [-0.06517452 0.89009775 2.17507677]

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gradient= [-0.00069541 -0.00012665 0.00082206] w = [-0.07185567 0.88895147 2.1829042 ] w\_new= [-0.07186263 0.88895021 2.18291242]

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gradient= [-0.00067991 -0.00012415 0.00080407] w = [-0.07196577 0.8889314 2.18303437] w\_new= [-0.07197257 0.88893015 2.18304241]

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gradient= [-0.00055827 -0.00010427 0.00066254] w = [-0.0728303 0.8887718 2.1840585] w\_new= [-0.07283588 0.88877076 2.18406513]

gradient= [-0.00055748 -0.00010414 0.00066162] w = [-0.07283588 0.88877076 2.18406513] w\_new= [-0.07284146 0.88876971 2.18407175]

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gradient= [-0.00055592 -0.00010388 0.00065979] w = [-0.07284703 0.88876867 2.18407835] w\_new= [-0.07285259 0.88876764 2.18408495]

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gradient= [-0.00055435 -0.00010362 0.00065797] w = [-0.07285814 0.8887666 2.18409154] w\_new= [-0.07286368 0.88876556 2.18409812]

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gradient= [-0.00053519 -0.00010043 0.00063562] w = [-0.07299441 0.88874108 2.18425333] w\_new= [-0.07299976 0.88874007 2.18425969]

gradient= [-0.00053444 -0.00010031 0.00063474] w = [-0.07299976 0.88874007 2.18425969] w\_new= [-0.07300511 0.88873907 2.18426604]

gradient= [-0.00053368 -0.00010018 0.00063386] w = [-0.07300511 0.88873907 2.18426604] w\_new= [-0.07301044 0.88873807 2.18427238]

gradient= [-0.00053293 -0.00010005 0.00063299] w = [-0.07301044 0.88873807 2.18427238] w\_new= [-0.07301577 0.88873707 2.18427871]

gradient= [-5.32184172e-04 -9.99297323e-05 6.32113904e-04] w = [-0.07301577 0.88873707 2.18427871] w\_new= [-0.0730211 0.88873607 2.18428503]

gradient= [-5.31435741e-04 -9.98048747e-05 6.31240616e-04] w = [-0.0730211 0.88873607 2.18428503] w\_new= [-0.07302641 0.88873507 2.18429134]

gradient= [-5.30688366e-04 -9.96801699e-05 6.30368536e-04] w = [-0.07302641 0.88873507 2.18429134] w\_new= [-0.07303172 0.88873407 2.18429764]

gradient= [-5.29942046e-04 -9.95556178e-05 6.29497664e-04] w = [-0.07303172 0.88873407 2.18429764] w\_new= [-0.07303702 0.88873308 2.18430394]

gradient= [-5.29196778e-04 -9.94312182e-05 6.28627997e-04] w = [-0.07303702 0.88873308 2.18430394] w\_new= [-0.07304231 0.88873208 2.18431022]

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gradient= [-5.26226208e-04 -9.89351409e-05 6.25161349e-04] w = [-0.07305814 0.88872911 2.18432903] w\_new= [-0.0730634 0.88872812 2.18433528]

gradient= [-5.25486183e-04 -9.88115009e-05 6.24297684e-04] w = [-0.0730634 0.88872812 2.18433528] w\_new= [-0.07306866 0.88872713 2.18434153]

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gradient= [-5.18143110e-04 -9.75833978e-05 6.15726507e-04] w = [-0.07311562 0.88871829 2.18439733] w\_new= [-0.0731208 0.88871732 2.18440348]

gradient= [-5.17414488e-04 -9.74614132e-05 6.14875901e-04] w = [-0.0731208 0.88871732 2.18440348] w\_new= [-0.07312597 0.88871634 2.18440963]

gradient= [-5.16686893e-04 -9.73395780e-05 6.14026471e-04] w = [-0.07312597 0.88871634 2.18440963] w\_new= [-0.07313114 0.88871537 2.18441577]

gradient= [-5.15960326e-04 -9.72178920e-05 6.13178218e-04] w = [-0.07313114 0.88871537 2.18441577] w\_new= [-0.0731363 0.8887144 2.1844219]

gradient= [-5.15234783e-04 -9.70963550e-05 6.12331138e-04] w = [-0.0731363 0.8887144 2.1844219] w\_new= [-0.07314145 0.88871343 2.18442803]

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gradient= [-5.12342832e-04 -9.66116943e-05 6.08954526e-04] w = [-0.07315687 0.88871052 2.18444635] w\_new= [-0.07316199 0.88870955 2.18445244]

gradient= [-5.11622392e-04 -9.64909000e-05 6.08113292e-04] w = [-0.07316199 0.88870955 2.18445244] w\_new= [-0.07316711 0.88870859 2.18445852]

gradient= [-5.10902969e-04 -9.63702536e-05 6.07273222e-04] w = [-0.07316711 0.88870859 2.18445852] w\_new= [-0.07317222 0.88870763 2.18446459]

gradient= [-5.10184560e-04 -9.62497551e-05 6.06434315e-04] w = [-0.07317222 0.88870763 2.18446459] w\_new= [-0.07317732 0.88870666 2.18447065]

gradient= [-5.09467165e-04 -9.61294042e-05 6.05596569e-04] w = [-0.07317732 0.88870666 2.18447065] w\_new= [-0.07318241 0.8887057 2.18447671]

gradient= [-5.08750781e-04 -9.60092007e-05 6.04759982e-04] w = [-0.07318241 0.8887057 2.18447671] w\_new= [-0.0731875 0.88870474 2.18448276]

gradient= [-5.08035408e-04 -9.58891446e-05 6.03924553e-04] w = [-0.0731875 0.88870474 2.18448276] w\_new= [-0.07319258 0.88870378 2.1844888 ]

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gradient= [-5.05895338e-04 -9.55298580e-05 6.01425196e-04] w = [-0.07320272 0.88870187 2.18450085] w\_new= [-0.07320778 0.88870091 2.18450686]

gradient= [-5.05183992e-04 -9.54103891e-05 6.00594382e-04] w = [-0.07320778 0.88870091 2.18450686] w\_new= [-0.07321283 0.88869996 2.18451287]

gradient= [-5.04473651e-04 -9.52910667e-05 5.99764717e-04] w = [-0.07321283 0.88869996 2.18451287] w\_new= [-0.07321788 0.88869901 2.18451887]

gradient= [-5.03764311e-04 -9.51718905e-05 5.98936201e-04] w = [-0.07321788 0.88869901 2.18451887] w\_new= [-0.07322291 0.88869805 2.18452486]

gradient= [-5.03055971e-04 -9.50528604e-05 5.98108831e-04] w = [-0.07322291 0.88869805 2.18452486] w\_new= [-0.07322794 0.8886971 2.18453084]

gradient= [-5.02348631e-04 -9.49339761e-05 5.97282607e-04] w = [-0.07322794 0.8886971 2.18453084] w\_new= [-0.07323297 0.88869616 2.18453681]

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gradient= [-5.00936942e-04 -9.46966446e-05 5.95633586e-04] w = [-0.07323798 0.88869521 2.18454278] w\_new= [-0.07324299 0.88869426 2.18454873]

gradient= [-5.00232590e-04 -9.45781969e-05 5.94810787e-04] w = [-0.07324299 0.88869426 2.18454873] w\_new= [-0.073248 0.88869331 2.18455468]

gradient= [-4.99529232e-04 -9.44598944e-05 5.93989126e-04] w = [-0.073248 0.88869331 2.18455468] w\_new= [-0.07325299 0.88869237 2.18456062]

gradient= [-4.98826866e-04 -9.43417369e-05 5.93168603e-04] w = [-0.07325299 0.88869237 2.18456062] w\_new= [-0.07325798 0.88869143 2.18456655]

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gradient= [-4.97425104e-04 -9.41058562e-05 5.91530960e-04] w = [-0.07326296 0.88869048 2.18457248] w\_new= [-0.07326793 0.88868954 2.18457839]

gradient= [-4.96725705e-04 -9.39881327e-05 5.90713838e-04] w = [-0.07326793 0.88868954 2.18457839] w\_new= [-0.0732729 0.8886886 2.1845843]

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gradient= [-4.94633423e-04 -9.36358273e-05 5.88269250e-04] w = [-0.07328281 0.88868673 2.18459609] w\_new= [-0.07328776 0.88868579 2.18460197]

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gradient= [-4.93243482e-04 -9.34016764e-05 5.86645158e-04] w = [-0.0732927 0.88868486 2.18460785] w\_new= [-0.07329763 0.88868392 2.18461371]

gradient= [-4.92549981e-04 -9.32848161e-05 5.85834797e-04] w = [-0.07329763 0.88868392 2.18461371] w\_new= [-0.07330256 0.88868299 2.18461957]

gradient= [-4.91857458e-04 -9.31680992e-05 5.85025557e-04] w = [-0.07330256 0.88868299 2.18461957] w\_new= [-0.07330748 0.88868206 2.18462542]

gradient= [-4.91165912e-04 -9.30515253e-05 5.84217437e-04] w = [-0.07330748 0.88868206 2.18462542] w\_new= [-0.07331239 0.88868113 2.18463126]

gradient= [-4.90475341e-04 -9.29350944e-05 5.83410436e-04] w = [-0.07331239 0.88868113 2.18463126] w\_new= [-0.07331729 0.8886802 2.1846371 ]

gradient= [-4.89785744e-04 -9.28188063e-05 5.82604551e-04] w = [-0.07331729 0.8886802 2.1846371 ] w\_new= [-0.07332219 0.88867927 2.18464292]

gradient= [-4.89097120e-04 -9.27026608e-05 5.81799781e-04] w = [-0.07332219 0.88867927 2.18464292] w\_new= [-0.07332708 0.88867834 2.18464874]

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gradient= [-4.87722783e-04 -9.24707968e-05 5.80193580e-04] w = [-0.07333197 0.88867742 2.18465455] w\_new= [-0.07333684 0.88867649 2.18466035]

gradient= [-4.87037068e-04 -9.23550780e-05 5.79392146e-04] w = [-0.07333684 0.88867649 2.18466035] w\_new= [-0.07334171 0.88867557 2.18466615]

gradient= [-4.86352320e-04 -9.22395011e-05 5.78591821e-04] w = [-0.07334171 0.88867557 2.18466615] w\_new= [-0.07334658 0.88867465 2.18467193]

gradient= [-4.85668538e-04 -9.21240660e-05 5.77792604e-04] w = [-0.07334658 0.88867465 2.18467193] w\_new= [-0.07335143 0.88867372 2.18467771]

gradient= [-4.84985720e-04 -9.20087725e-05 5.76994492e-04] w = [-0.07335143 0.88867372 2.18467771] w\_new= [-0.07335628 0.8886728 2.18468348]

gradient= [-4.84303865e-04 -9.18936203e-05 5.76197485e-04] w = [-0.07335628 0.8886728 2.18468348] w\_new= [-0.07336113 0.88867188 2.18468924]

gradient= [-4.83622971e-04 -9.17786094e-05 5.75401581e-04] w = [-0.07336113 0.88867188 2.18468924] w\_new= [-0.07336596 0.88867097 2.184695 ]

gradient= [-4.82943038e-04 -9.16637396e-05 5.74606778e-04] w = [-0.07336596 0.88867097 2.184695 ] w\_new= [-0.07337079 0.88867005 2.18470074]

gradient= [-4.82264063e-04 -9.15490106e-05 5.73813074e-04] w = [-0.07337079 0.88867005 2.18470074] w\_new= [-0.07337562 0.88866913 2.18470648]

gradient= [-4.81586046e-04 -9.14344224e-05 5.73020469e-04] w = [-0.07337562 0.88866913 2.18470648] w\_new= [-0.07338043 0.88866822 2.18471221]

gradient= [-4.80908985e-04 -9.13199748e-05 5.72228960e-04] w = [-0.07338043 0.88866822 2.18471221] w\_new= [-0.07338524 0.88866731 2.18471793]

gradient= [-4.80232879e-04 -9.12056675e-05 5.71438547e-04] w = [-0.07338524 0.88866731 2.18471793] w\_new= [-0.07339004 0.8886664 2.18472365]

gradient= [-4.79557727e-04 -9.10915005e-05 5.70649227e-04] w = [-0.07339004 0.8886664 2.18472365] w\_new= [-0.07339484 0.88866548 2.18472935]

gradient= [-4.78883526e-04 -9.09774735e-05 5.69860999e-04] w = [-0.07339484 0.88866548 2.18472935] w\_new= [-0.07339963 0.88866457 2.18473505]

gradient= [-4.78210276e-04 -9.08635864e-05 5.69073862e-04] w = [-0.07339963 0.88866457 2.18473505] w\_new= [-0.07340441 0.88866367 2.18474074]

gradient= [-4.77537975e-04 -9.07498390e-05 5.68287814e-04] w = [-0.07340441 0.88866367 2.18474074] w\_new= [-0.07340918 0.88866276 2.18474643]

gradient= [-4.76866623e-04 -9.06362312e-05 5.67502854e-04] w = [-0.07340918 0.88866276 2.18474643] w\_new= [-0.07341395 0.88866185 2.1847521 ]

gradient= [-4.76196217e-04 -9.05227627e-05 5.66718980e-04] w = [-0.07341395 0.88866185 2.1847521 ] w\_new= [-0.07341872 0.88866095 2.18475777]

gradient= [-4.75526756e-04 -9.04094335e-05 5.65936190e-04] w = [-0.07341872 0.88866095 2.18475777] w\_new= [-0.07342347 0.88866004 2.18476343]

gradient= [-4.74858240e-04 -9.02962434e-05 5.65154483e-04] w = [-0.07342347 0.88866004 2.18476343] w\_new= [-0.07342822 0.88865914 2.18476908]

gradient= [-4.74190666e-04 -9.01831921e-05 5.64373858e-04] w = [-0.07342822 0.88865914 2.18476908] w\_new= [-0.07343296 0.88865824 2.18477472]

gradient= [-4.73524033e-04 -9.00702795e-05 5.63594313e-04] w = [-0.07343296 0.88865824 2.18477472] w\_new= [-0.0734377 0.88865734 2.18478036]

gradient= [-4.72858341e-04 -8.99575055e-05 5.62815846e-04] w = [-0.0734377 0.88865734 2.18478036] w\_new= [-0.07344242 0.88865644 2.18478599]

gradient= [-4.72193587e-04 -8.98448699e-05 5.62038457e-04] w = [-0.07344242 0.88865644 2.18478599] w\_new= [-0.07344715 0.88865554 2.18479161]

gradient= [-4.71529770e-04 -8.97323725e-05 5.61262143e-04] w = [-0.07344715 0.88865554 2.18479161] w\_new= [-0.07345186 0.88865464 2.18479722]

gradient= [-4.70866890e-04 -8.96200132e-05 5.60486903e-04] w = [-0.07345186 0.88865464 2.18479722] w\_new= [-0.07345657 0.88865375 2.18480282]

gradient= [-4.70204944e-04 -8.95077917e-05 5.59712735e-04] w = [-0.07345657 0.88865375 2.18480282] w\_new= [-0.07346127 0.88865285 2.18480842]

gradient= [-4.69543931e-04 -8.93957080e-05 5.58939639e-04] w = [-0.07346127 0.88865285 2.18480842] w\_new= [-0.07346597 0.88865196 2.18481401]

gradient= [-4.68883851e-04 -8.92837618e-05 5.58167612e-04] w = [-0.07346597 0.88865196 2.18481401] w\_new= [-0.07347066 0.88865106 2.18481959]

gradient= [-4.68224701e-04 -8.91719531e-05 5.57396654e-04] w = [-0.07347066 0.88865106 2.18481959] w\_new= [-0.07347534 0.88865017 2.18482517]

gradient= [-4.67566480e-04 -8.90602815e-05 5.56626762e-04] w = [-0.07347534 0.88865017 2.18482517] w\_new= [-0.07348002 0.88864928 2.18483073]

gradient= [-4.66909188e-04 -8.89487471e-05 5.55857935e-04] w = [-0.07348002 0.88864928 2.18483073] w\_new= [-0.07348468 0.88864839 2.18483629]

gradient= [-4.66252822e-04 -8.88373495e-05 5.55090172e-04] w = [-0.07348468 0.88864839 2.18483629] w\_new= [-0.07348935 0.8886475 2.18484184]

gradient= [-4.65597382e-04 -8.87260887e-05 5.54323471e-04] w = [-0.07348935 0.8886475 2.18484184] w\_new= [-0.073494 0.88864662 2.18484739]

gradient= [-4.64942866e-04 -8.86149644e-05 5.53557831e-04] w = [-0.073494 0.88864662 2.18484739] w\_new= [-0.07349865 0.88864573 2.18485292]

gradient= [-4.64289273e-04 -8.85039766e-05 5.52793250e-04] w = [-0.07349865 0.88864573 2.18485292] w\_new= [-0.07350329 0.88864485 2.18485845]

gradient= [-4.63636601e-04 -8.83931250e-05 5.52029726e-04] w = [-0.07350329 0.88864485 2.18485845] w\_new= [-0.07350793 0.88864396 2.18486397]

gradient= [-4.62984850e-04 -8.82824095e-05 5.51267259e-04] w = [-0.07350793 0.88864396 2.18486397] w\_new= [-0.07351256 0.88864308 2.18486948]

gradient= [-4.62334017e-04 -8.81718299e-05 5.50505847e-04] w = [-0.07351256 0.88864308 2.18486948] w\_new= [-0.07351718 0.8886422 2.18487499]

gradient= [-4.61684102e-04 -8.80613861e-05 5.49745488e-04] w = [-0.07351718 0.8886422 2.18487499] w\_new= [-0.0735218 0.88864132 2.18488049]

gradient= [-4.61035104e-04 -8.79510778e-05 5.48986182e-04] w = [-0.0735218 0.88864132 2.18488049] w\_new= [-0.07352641 0.88864044 2.18488598]

gradient= [-4.60387020e-04 -8.78409050e-05 5.48227925e-04] w = [-0.07352641 0.88864044 2.18488598] w\_new= [-0.07353102 0.88863956 2.18489146]

gradient= [-4.59739850e-04 -8.77308675e-05 5.47470718e-04] w = [-0.07353102 0.88863956 2.18489146] w\_new= [-0.07353561 0.88863868 2.18489693]

gradient= [-4.59093593e-04 -8.76209651e-05 5.46714558e-04] w = [-0.07353561 0.88863868 2.18489693] w\_new= [-0.0735402 0.8886378 2.1849024]

gradient= [-4.58448246e-04 -8.75111976e-05 5.45959444e-04] w = [-0.0735402 0.8886378 2.1849024] w\_new= [-0.07354479 0.88863693 2.18490786]

gradient= [-4.57803810e-04 -8.74015649e-05 5.45205375e-04] w = [-0.07354479 0.88863693 2.18490786] w\_new= [-0.07354937 0.88863606 2.18491331]

gradient= [-4.57160282e-04 -8.72920668e-05 5.44452349e-04] w = [-0.07354937 0.88863606 2.18491331] w\_new= [-0.07355394 0.88863518 2.18491876]

gradient= [-4.56517661e-04 -8.71827032e-05 5.43700364e-04] w = [-0.07355394 0.88863518 2.18491876] w\_new= [-0.0735585 0.88863431 2.18492419]

gradient= [-4.55875946e-04 -8.70734739e-05 5.42949420e-04] w = [-0.0735585 0.88863431 2.18492419] w\_new= [-0.07356306 0.88863344 2.18492962]

gradient= [-4.55235136e-04 -8.69643788e-05 5.42199515e-04] w = [-0.07356306 0.88863344 2.18492962] w\_new= [-0.07356761 0.88863257 2.18493504]

gradient= [-4.54595230e-04 -8.68554176e-05 5.41450647e-04] w = [-0.07356761 0.88863257 2.18493504] w\_new= [-0.07357216 0.8886317 2.18494046]

gradient= [-4.53956225e-04 -8.67465902e-05 5.40702815e-04] w = [-0.07357216 0.8886317 2.18494046] w\_new= [-0.0735767 0.88863083 2.18494587]

gradient= [-4.53318122e-04 -8.66378965e-05 5.39956018e-04] w = [-0.0735767 0.88863083 2.18494587] w\_new= [-0.07358123 0.88862997 2.18495126]

gradient= [-4.52680918e-04 -8.65293363e-05 5.39210254e-04] w = [-0.07358123 0.88862997 2.18495126] w\_new= [-0.07358576 0.8886291 2.18495666]

gradient= [-4.52044612e-04 -8.64209094e-05 5.38465521e-04] w = [-0.07358576 0.8886291 2.18495666] w\_new= [-0.07359028 0.88862824 2.18496204]

gradient= [-4.51409203e-04 -8.63126157e-05 5.37721819e-04] w = [-0.07359028 0.88862824 2.18496204] w\_new= [-0.07359479 0.88862738 2.18496742]

gradient= [-4.50774690e-04 -8.62044550e-05 5.36979145e-04] w = [-0.07359479 0.88862738 2.18496742] w\_new= [-0.0735993 0.88862651 2.18497279]

gradient= [-4.50141072e-04 -8.60964272e-05 5.36237499e-04] w = [-0.0735993 0.88862651 2.18497279] w\_new= [-0.0736038 0.88862565 2.18497815]

gradient= [-4.49508346e-04 -8.59885321e-05 5.35496879e-04] w = [-0.0736038 0.88862565 2.18497815] w\_new= [-0.0736083 0.88862479 2.18498351]

gradient= [-4.48876513e-04 -8.58807695e-05 5.34757283e-04] w = [-0.0736083 0.88862479 2.18498351] w\_new= [-0.07361279 0.88862393 2.18498885]

gradient= [-4.48245571e-04 -8.57731393e-05 5.34018710e-04] w = [-0.07361279 0.88862393 2.18498885] w\_new= [-0.07361727 0.88862308 2.18499419]

gradient= [-4.47615517e-04 -8.56656414e-05 5.33281159e-04] w = [-0.07361727 0.88862308 2.18499419] w\_new= [-0.07362175 0.88862222 2.18499953]

gradient= [-4.46986352e-04 -8.55582755e-05 5.32544628e-04] w = [-0.07362175 0.88862222 2.18499953] w\_new= [-0.07362622 0.88862136 2.18500485]

gradient= [-4.46358074e-04 -8.54510415e-05 5.31809116e-04] w = [-0.07362622 0.88862136 2.18500485] w\_new= [-0.07363068 0.88862051 2.18501017]

gradient= [-4.45730682e-04 -8.53439392e-05 5.31074621e-04] w = [-0.07363068 0.88862051 2.18501017] w\_new= [-0.07363514 0.88861966 2.18501548]

gradient= [-4.45104174e-04 -8.52369685e-05 5.30341143e-04] w = [-0.07363514 0.88861966 2.18501548] w\_new= [-0.07363959 0.8886188 2.18502078]

gradient= [-4.44478549e-04 -8.51301293e-05 5.29608679e-04] w = [-0.07363959 0.8886188 2.18502078] w\_new= [-0.07364403 0.88861795 2.18502608]

gradient= [-4.43853806e-04 -8.50234213e-05 5.28877228e-04] w = [-0.07364403 0.88861795 2.18502608] w\_new= [-0.07364847 0.8886171 2.18503137]

gradient= [-4.43229944e-04 -8.49168445e-05 5.28146789e-04] w = [-0.07364847 0.8886171 2.18503137] w\_new= [-0.0736529 0.88861625 2.18503665]

gradient= [-4.42606961e-04 -8.48103986e-05 5.27417360e-04] w = [-0.0736529 0.88861625 2.18503665] w\_new= [-0.07365733 0.8886154 2.18504192]

gradient= [-4.41984857e-04 -8.47040835e-05 5.26688940e-04] w = [-0.07365733 0.8886154 2.18504192] w\_new= [-0.07366175 0.88861456 2.18504719]

gradient= [-4.41363629e-04 -8.45978991e-05 5.25961528e-04] w = [-0.07366175 0.88861456 2.18504719] w\_new= [-0.07366616 0.88861371 2.18505245]

gradient= [-4.40743277e-04 -8.44918451e-05 5.25235122e-04] w = [-0.07366616 0.88861371 2.18505245] w\_new= [-0.07367057 0.88861287 2.1850577 ]

gradient= [-4.40123799e-04 -8.43859215e-05 5.24509721e-04] w = [-0.07367057 0.88861287 2.1850577 ] w\_new= [-0.07367497 0.88861202 2.18506295]

gradient= [-4.39505195e-04 -8.42801281e-05 5.23785323e-04] w = [-0.07367497 0.88861202 2.18506295] w\_new= [-0.07367937 0.88861118 2.18506819]

gradient= [-4.38887462e-04 -8.41744647e-05 5.23061927e-04] w = [-0.07367937 0.88861118 2.18506819] w\_new= [-0.07368376 0.88861034 2.18507342]

gradient= [-4.38270600e-04 -8.40689311e-05 5.22339532e-04] w = [-0.07368376 0.88861034 2.18507342] w\_new= [-0.07368814 0.8886095 2.18507864]

gradient= [-4.37654608e-04 -8.39635273e-05 5.21618135e-04] w = [-0.07368814 0.8886095 2.18507864] w\_new= [-0.07369251 0.88860866 2.18508386]

gradient= [-4.37039484e-04 -8.38582530e-05 5.20897737e-04] w = [-0.07369251 0.88860866 2.18508386] w\_new= [-0.07369689 0.88860782 2.18508907]

gradient= [-4.36425227e-04 -8.37531081e-05 5.20178335e-04] w = [-0.07369689 0.88860782 2.18508907] w\_new= [-0.07370125 0.88860698 2.18509427]

gradient= [-4.35811836e-04 -8.36480924e-05 5.19459929e-04] w = [-0.07370125 0.88860698 2.18509427] w\_new= [-0.07370561 0.88860615 2.18509946]

gradient= [-4.35199310e-04 -8.35432058e-05 5.18742515e-04] w = [-0.07370561 0.88860615 2.18509946] w\_new= [-0.07370996 0.88860531 2.18510465]

gradient= [-4.34587646e-04 -8.34384482e-05 5.18026095e-04] w = [-0.07370996 0.88860531 2.18510465] w\_new= [-0.07371431 0.88860448 2.18510983]

gradient= [-4.33976845e-04 -8.33338193e-05 5.17310665e-04] w = [-0.07371431 0.88860448 2.18510983] w\_new= [-0.07371865 0.88860364 2.185115 ]

gradient= [-4.33366905e-04 -8.32293191e-05 5.16596224e-04] w = [-0.07371865 0.88860364 2.185115 ] w\_new= [-0.07372298 0.88860281 2.18512017]

gradient= [-4.32757825e-04 -8.31249473e-05 5.15882772e-04] w = [-0.07372298 0.88860281 2.18512017] w\_new= [-0.07372731 0.88860198 2.18512533]

gradient= [-4.32149603e-04 -8.30207038e-05 5.15170307e-04] w = [-0.07372731 0.88860198 2.18512533] w\_new= [-0.07373163 0.88860115 2.18513048]

gradient= [-4.31542238e-04 -8.29165885e-05 5.14458827e-04] w = [-0.07373163 0.88860115 2.18513048] w\_new= [-0.07373594 0.88860032 2.18513562]

gradient= [-4.30935730e-04 -8.28126012e-05 5.13748331e-04] w = [-0.07373594 0.88860032 2.18513562] w\_new= [-0.07374025 0.88859949 2.18514076]

gradient= [-4.30330076e-04 -8.27087418e-05 5.13038818e-04] w = [-0.07374025 0.88859949 2.18514076] w\_new= [-0.07374456 0.88859866 2.18514589]

gradient= [-4.29725276e-04 -8.26050100e-05 5.12330286e-04] w = [-0.07374456 0.88859866 2.18514589] w\_new= [-0.07374885 0.88859784 2.18515102]

gradient= [-4.29121328e-04 -8.25014058e-05 5.11622734e-04] w = [-0.07374885 0.88859784 2.18515102] w\_new= [-0.07375314 0.88859701 2.18515613]

gradient= [-4.28518231e-04 -8.23979290e-05 5.10916160e-04] w = [-0.07375314 0.88859701 2.18515613] w\_new= [-0.07375743 0.88859619 2.18516124]

gradient= [-4.27915985e-04 -8.22945795e-05 5.10210564e-04] w = [-0.07375743 0.88859619 2.18516124] w\_new= [-0.07376171 0.88859537 2.18516634]

gradient= [-4.27314587e-04 -8.21913570e-05 5.09505944e-04] w = [-0.07376171 0.88859537 2.18516634] w\_new= [-0.07376598 0.88859454 2.18517144]

gradient= [-4.26714037e-04 -8.20882614e-05 5.08802299e-04] w = [-0.07376598 0.88859454 2.18517144] w\_new= [-0.07377025 0.88859372 2.18517653]

gradient= [-4.26114333e-04 -8.19852927e-05 5.08099626e-04] w = [-0.07377025 0.88859372 2.18517653] w\_new= [-0.07377451 0.8885929 2.18518161]

gradient= [-4.25515475e-04 -8.18824505e-05 5.07397925e-04] w = [-0.07377451 0.8885929 2.18518161] w\_new= [-0.07377877 0.88859208 2.18518668]

gradient= [-4.24917460e-04 -8.17797349e-05 5.06697195e-04] w = [-0.07377877 0.88859208 2.18518668] w\_new= [-0.07378301 0.88859127 2.18519175]

gradient= [-4.24320289e-04 -8.16771455e-05 5.05997434e-04] w = [-0.07378301 0.88859127 2.18519175] w\_new= [-0.07378726 0.88859045 2.18519681]

gradient= [-4.23723959e-04 -8.15746824e-05 5.05298641e-04] w = [-0.07378726 0.88859045 2.18519681] w\_new= [-0.0737915 0.88858963 2.18520186]

gradient= [-4.23128469e-04 -8.14723452e-05 5.04600814e-04] w = [-0.0737915 0.88858963 2.18520186] w\_new= [-0.07379573 0.88858882 2.18520691]

gradient= [-4.22533819e-04 -8.13701340e-05 5.03903953e-04] w = [-0.07379573 0.88858882 2.18520691] w\_new= [-0.07379995 0.88858801 2.18521195]

gradient= [-4.21940006e-04 -8.12680484e-05 5.03208055e-04] w = [-0.07379995 0.88858801 2.18521195] w\_new= [-0.07380417 0.88858719 2.18521698]

gradient= [-4.21347031e-04 -8.11660884e-05 5.02513119e-04] w = [-0.07380417 0.88858719 2.18521698] w\_new= [-0.07380838 0.88858638 2.185222 ]

gradient= [-4.20754891e-04 -8.10642539e-05 5.01819145e-04] w = [-0.07380838 0.88858638 2.185222 ] w\_new= [-0.07381259 0.88858557 2.18522702]

gradient= [-4.20163586e-04 -8.09625446e-05 5.01126131e-04] w = [-0.07381259 0.88858557 2.18522702] w\_new= [-0.07381679 0.88858476 2.18523203]

gradient= [-4.19573114e-04 -8.08609604e-05 5.00434074e-04] w = [-0.07381679 0.88858476 2.18523203] w\_new= [-0.07382099 0.88858395 2.18523704]

gradient= [-4.18983474e-04 -8.07595012e-05 4.99742975e-04] w = [-0.07382099 0.88858395 2.18523704] w\_new= [-0.07382518 0.88858315 2.18524203]

gradient= [-4.18394665e-04 -8.06581668e-05 4.99052832e-04] w = [-0.07382518 0.88858315 2.18524203] w\_new= [-0.07382936 0.88858234 2.18524702]

gradient= [-4.17806686e-04 -8.05569571e-05 4.98363643e-04] w = [-0.07382936 0.88858234 2.18524702] w\_new= [-0.07383354 0.88858153 2.18525201]

gradient= [-4.17219536e-04 -8.04558719e-05 4.97675408e-04] w = [-0.07383354 0.88858153 2.18525201] w\_new= [-0.07383771 0.88858073 2.18525699]

gradient= [-4.16633213e-04 -8.03549110e-05 4.96988124e-04] w = [-0.07383771 0.88858073 2.18525699] w\_new= [-0.07384188 0.88857992 2.18526195]

gradient= [-4.16047716e-04 -8.02540744e-05 4.96301790e-04] w = [-0.07384188 0.88857992 2.18526195] w\_new= [-0.07384604 0.88857912 2.18526692]

gradient= [-4.15463044e-04 -8.01533619e-05 4.95616406e-04] w = [-0.07384604 0.88857912 2.18526692] w\_new= [-0.07385019 0.88857832 2.18527187]

gradient= [-4.14879197e-04 -8.00527732e-05 4.94931970e-04] w = [-0.07385019 0.88857832 2.18527187] w\_new= [-0.07385434 0.88857752 2.18527682]

gradient= [-4.14296172e-04 -7.99523084e-05 4.94248480e-04] w = [-0.07385434 0.88857752 2.18527682] w\_new= [-0.07385849 0.88857672 2.18528177]

gradient= [-4.13713968e-04 -7.98519671e-05 4.93565936e-04] w = [-0.07385849 0.88857672 2.18528177] w\_new= [-0.07386262 0.88857592 2.1852867 ]

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gradient= [-4.12552022e-04 -7.96516549e-05 4.92203677e-04] w = [-0.07386676 0.88857512 2.18529163] w\_new= [-0.07387088 0.88857433 2.18529655]

gradient= [-4.11972276e-04 -7.95516837e-05 4.91523960e-04] w = [-0.07387088 0.88857433 2.18529655] w\_new= [-0.073875 0.88857353 2.18530147]

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gradient= [-4.10815235e-04 -7.93521101e-05 4.90167345e-04] w = [-0.07387911 0.88857274 2.18530638] w\_new= [-0.07388322 0.88857194 2.18531128]

gradient= [-4.10237937e-04 -7.92525075e-05 4.89490444e-04] w = [-0.07388322 0.88857194 2.18531128] w\_new= [-0.07388732 0.88857115 2.18531617]

gradient= [-4.09661452e-04 -7.91530274e-05 4.88814480e-04] w = [-0.07388732 0.88857115 2.18531617] w\_new= [-0.07389142 0.88857036 2.18532106]

gradient= [-4.09085780e-04 -7.90536699e-05 4.88139450e-04] w = [-0.07389142 0.88857036 2.18532106] w\_new= [-0.07389551 0.88856957 2.18532594]

gradient= [-4.08510919e-04 -7.89544346e-05 4.87465353e-04] w = [-0.07389551 0.88856957 2.18532594] w\_new= [-0.0738996 0.88856878 2.18533082]

gradient= [-4.07936868e-04 -7.88553214e-05 4.86792189e-04] w = [-0.0738996 0.88856878 2.18533082] w\_new= [-0.07390368 0.88856799 2.18533568]

gradient= [-4.07363625e-04 -7.87563302e-05 4.86119956e-04] w = [-0.07390368 0.88856799 2.18533568] w\_new= [-0.07390775 0.8885672 2.18534055]

gradient= [-4.06791191e-04 -7.86574609e-05 4.85448652e-04] w = [-0.07390775 0.8885672 2.18534055] w\_new= [-0.07391182 0.88856642 2.1853454 ]

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gradient= [-4.05648741e-04 -7.84600873e-05 4.84108828e-04] w = [-0.07391588 0.88856563 2.18535025] w\_new= [-0.07391994 0.88856485 2.18535509]

gradient= [-4.05078723e-04 -7.83615827e-05 4.83440306e-04] w = [-0.07391994 0.88856485 2.18535509] w\_new= [-0.07392399 0.88856406 2.18535992]

gradient= [-4.04509508e-04 -7.82631993e-05 4.82772707e-04] w = [-0.07392399 0.88856406 2.18535992] w\_new= [-0.07392803 0.88856328 2.18536475]

gradient= [-4.03941095e-04 -7.81649371e-05 4.82106032e-04] w = [-0.07392803 0.88856328 2.18536475] w\_new= [-0.07393207 0.8885625 2.18536957]

gradient= [-4.03373483e-04 -7.80667958e-05 4.81440279e-04] w = [-0.07393207 0.8885625 2.18536957] w\_new= [-0.07393611 0.88856172 2.18537439]

gradient= [-4.02806671e-04 -7.79687754e-05 4.80775447e-04] w = [-0.07393611 0.88856172 2.18537439] w\_new= [-0.07394013 0.88856094 2.18537919]

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gradient= [-4.01675442e-04 -7.77730964e-05 4.79448539e-04] w = [-0.07394416 0.88856016 2.185384 ] w\_new= [-0.07394817 0.88855938 2.18538879]

gradient= [-4.01111023e-04 -7.76754376e-05 4.78786460e-04] w = [-0.07394817 0.88855938 2.18538879] w\_new= [-0.07395218 0.88855861 2.18539358]

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gradient= [-3.99984568e-04 -7.74804806e-05 4.77465049e-04] w = [-0.07395619 0.88855783 2.18539836] w\_new= [-0.07396019 0.88855706 2.18540313]

gradient= [-3.99422531e-04 -7.73831821e-05 4.76805713e-04] w = [-0.07396019 0.88855706 2.18540313] w\_new= [-0.07396418 0.88855628 2.1854079 ]

gradient= [-3.98861286e-04 -7.72860034e-05 4.76147290e-04] w = [-0.07396418 0.88855628 2.1854079 ] w\_new= [-0.07396817 0.88855551 2.18541266]

gradient= [-3.98300832e-04 -7.71889444e-05 4.75489776e-04] w = [-0.07396817 0.88855551 2.18541266] w\_new= [-0.07397216 0.88855474 2.18541742]

gradient= [-3.97741167e-04 -7.70920049e-05 4.74833172e-04] w = [-0.07397216 0.88855474 2.18541742] w\_new= [-0.07397613 0.88855397 2.18542217]

gradient= [-3.97182291e-04 -7.69951848e-05 4.74177476e-04] w = [-0.07397613 0.88855397 2.18542217] w\_new= [-0.0739801 0.8885532 2.18542691]

gradient= [-3.96624202e-04 -7.68984840e-05 4.73522686e-04] w = [-0.0739801 0.8885532 2.18542691] w\_new= [-0.07398407 0.88855243 2.18543164]

gradient= [-3.96066900e-04 -7.68019022e-05 4.72868802e-04] w = [-0.07398407 0.88855243 2.18543164] w\_new= [-0.07398803 0.88855166 2.18543637]

gradient= [-3.95510382e-04 -7.67054394e-05 4.72215822e-04] w = [-0.07398803 0.88855166 2.18543637] w\_new= [-0.07399199 0.88855089 2.18544109]

gradient= [-3.94954649e-04 -7.66090955e-05 4.71563745e-04] w = [-0.07399199 0.88855089 2.18544109] w\_new= [-0.07399594 0.88855013 2.18544581]

gradient= [-3.94399699e-04 -7.65128701e-05 4.70912569e-04] w = [-0.07399594 0.88855013 2.18544581] w\_new= [-0.07399988 0.88854936 2.18545052]

gradient= [-3.93845531e-04 -7.64167634e-05 4.70262294e-04] w = [-0.07399988 0.88854936 2.18545052] w\_new= [-0.07400382 0.8885486 2.18545522]

gradient= [-3.93292143e-04 -7.63207749e-05 4.69612918e-04] w = [-0.07400382 0.8885486 2.18545522] w\_new= [-0.07400775 0.88854783 2.18545992]

gradient= [-3.92739535e-04 -7.62249048e-05 4.68964440e-04] w = [-0.07400775 0.88854783 2.18545992] w\_new= [-0.07401168 0.88854707 2.18546461]

gradient= [-3.92187706e-04 -7.61291527e-05 4.68316859e-04] w = [-0.07401168 0.88854707 2.18546461] w\_new= [-0.0740156 0.88854631 2.18546929]

gradient= [-3.91636654e-04 -7.60335186e-05 4.67670173e-04] w = [-0.0740156 0.88854631 2.18546929] w\_new= [-0.07401952 0.88854555 2.18547397]

gradient= [-3.91086379e-04 -7.59380023e-05 4.67024381e-04] w = [-0.07401952 0.88854555 2.18547397] w\_new= [-0.07402343 0.88854479 2.18547864]

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gradient= [-3.89988152e-04 -7.57473226e-05 4.65735475e-04] w = [-0.07402733 0.88854403 2.1854833 ] w\_new= [-0.07403123 0.88854327 2.18548796]

gradient= [-3.89440199e-04 -7.56521589e-05 4.65092358e-04] w = [-0.07403123 0.88854327 2.18548796] w\_new= [-0.07403513 0.88854252 2.18549261]

gradient= [-3.88893018e-04 -7.55571125e-05 4.64450131e-04] w = [-0.07403513 0.88854252 2.18549261] w\_new= [-0.07403902 0.88854176 2.18549725]

gradient= [-3.88346608e-04 -7.54621831e-05 4.63808791e-04] w = [-0.07403902 0.88854176 2.18549725] w\_new= [-0.0740429 0.88854101 2.18550189]

gradient= [-3.87800968e-04 -7.53673708e-05 4.63168338e-04] w = [-0.0740429 0.88854101 2.18550189] w\_new= [-0.07404678 0.88854025 2.18550652]

gradient= [-3.87256096e-04 -7.52726752e-05 4.62528771e-04] w = [-0.07404678 0.88854025 2.18550652] w\_new= [-0.07405065 0.8885395 2.18551115]

gradient= [-3.86711992e-04 -7.51780964e-05 4.61890088e-04] w = [-0.07405065 0.8885395 2.18551115] w\_new= [-0.07405452 0.88853875 2.18551577]

gradient= [-3.86168654e-04 -7.50836341e-05 4.61252288e-04] w = [-0.07405452 0.88853875 2.18551577] w\_new= [-0.07405838 0.888538 2.18552038]

gradient= [-3.85626082e-04 -7.49892882e-05 4.60615370e-04] w = [-0.07405838 0.888538 2.18552038] w\_new= [-0.07406224 0.88853725 2.18552499]

gradient= [-3.85084274e-04 -7.48950585e-05 4.59979333e-04] w = [-0.07406224 0.88853725 2.18552499] w\_new= [-0.07406609 0.8885365 2.18552959]

gradient= [-3.84543230e-04 -7.48009450e-05 4.59344175e-04] w = [-0.07406609 0.8885365 2.18552959] w\_new= [-0.07406993 0.88853575 2.18553418]

gradient= [-3.84002948e-04 -7.47069475e-05 4.58709895e-04] w = [-0.07406993 0.88853575 2.18553418] w\_new= [-0.07407377 0.888535 2.18553877]

gradient= [-3.83463426e-04 -7.46130658e-05 4.58076492e-04] w = [-0.07407377 0.888535 2.18553877] w\_new= [-0.07407761 0.88853426 2.18554335]

gradient= [-3.82924665e-04 -7.45192998e-05 4.57443965e-04] w = [-0.07407761 0.88853426 2.18554335] w\_new= [-0.07408144 0.88853351 2.18554792]

gradient= [-3.82386663e-04 -7.44256494e-05 4.56812313e-04] w = [-0.07408144 0.88853351 2.18554792] w\_new= [-0.07408526 0.88853277 2.18555249]

gradient= [-3.81849419e-04 -7.43321144e-05 4.56181533e-04] w = [-0.07408526 0.88853277 2.18555249] w\_new= [-0.07408908 0.88853203 2.18555705]

gradient= [-3.81312931e-04 -7.42386947e-05 4.55551626e-04] w = [-0.07408908 0.88853203 2.18555705] w\_new= [-0.07409289 0.88853128 2.18556161]

gradient= [-3.80777200e-04 -7.41453902e-05 4.54922590e-04] w = [-0.07409289 0.88853128 2.18556161] w\_new= [-0.0740967 0.88853054 2.18556616]

gradient= [-3.80242223e-04 -7.40522007e-05 4.54294423e-04] w = [-0.0740967 0.88853054 2.18556616] w\_new= [-0.0741005 0.8885298 2.1855707]

gradient= [-3.79707999e-04 -7.39591260e-05 4.53667125e-04] w = [-0.0741005 0.8885298 2.1855707] w\_new= [-0.0741043 0.88852906 2.18557524]

gradient= [-3.79174529e-04 -7.38661661e-05 4.53040695e-04] w = [-0.0741043 0.88852906 2.18557524] w\_new= [-0.07410809 0.88852832 2.18557977]

gradient= [-3.78641809e-04 -7.37733208e-05 4.52415130e-04] w = [-0.07410809 0.88852832 2.18557977] w\_new= [-0.07411188 0.88852759 2.18558429]

gradient= [-3.78109840e-04 -7.36805899e-05 4.51790430e-04] w = [-0.07411188 0.88852759 2.18558429] w\_new= [-0.07411566 0.88852685 2.18558881]

gradient= [-3.77578621e-04 -7.35879734e-05 4.51166594e-04] w = [-0.07411566 0.88852685 2.18558881] w\_new= [-0.07411943 0.88852611 2.18559332]

gradient= [-3.77048149e-04 -7.34954711e-05 4.50543620e-04] w = [-0.07411943 0.88852611 2.18559332] w\_new= [-0.0741232 0.88852538 2.18559783]

gradient= [-3.76518425e-04 -7.34030827e-05 4.49921508e-04] w = [-0.0741232 0.88852538 2.18559783] w\_new= [-0.07412697 0.88852464 2.18560233]

gradient= [-3.75989448e-04 -7.33108084e-05 4.49300256e-04] w = [-0.07412697 0.88852464 2.18560233] w\_new= [-0.07413073 0.88852391 2.18560682]

gradient= [-3.75461215e-04 -7.32186477e-05 4.48679863e-04] w = [-0.07413073 0.88852391 2.18560682] w\_new= [-0.07413448 0.88852318 2.18561131]

gradient= [-3.74933726e-04 -7.31266007e-05 4.48060327e-04] w = [-0.07413448 0.88852318 2.18561131] w\_new= [-0.07413823 0.88852245 2.18561579]

gradient= [-3.74406981e-04 -7.30346672e-05 4.47441648e-04] w = [-0.07413823 0.88852245 2.18561579] w\_new= [-0.07414198 0.88852172 2.18562026]

gradient= [-3.73880977e-04 -7.29428471e-05 4.46823824e-04] w = [-0.07414198 0.88852172 2.18562026] w\_new= [-0.07414572 0.88852099 2.18562473]

gradient= [-3.73355714e-04 -7.28511402e-05 4.46206854e-04] w = [-0.07414572 0.88852099 2.18562473] w\_new= [-0.07414945 0.88852026 2.18562919]

gradient= [-3.72831191e-04 -7.27595464e-05 4.45590738e-04] w = [-0.07414945 0.88852026 2.18562919] w\_new= [-0.07415318 0.88851953 2.18563365]

gradient= [-3.72307407e-04 -7.26680655e-05 4.44975473e-04] w = [-0.07415318 0.88851953 2.18563365] w\_new= [-0.0741569 0.8885188 2.1856381]

gradient= [-3.71784361e-04 -7.25766975e-05 4.44361059e-04] w = [-0.0741569 0.8885188 2.1856381] w\_new= [-0.07416062 0.88851808 2.18564254]

gradient= [-3.71262052e-04 -7.24854421e-05 4.43747494e-04] w = [-0.07416062 0.88851808 2.18564254] w\_new= [-0.07416433 0.88851735 2.18564698]

gradient= [-3.70740478e-04 -7.23942993e-05 4.43134777e-04] w = [-0.07416433 0.88851735 2.18564698] w\_new= [-0.07416804 0.88851663 2.18565141]

gradient= [-3.70219639e-04 -7.23032689e-05 4.42522908e-04] w = [-0.07416804 0.88851663 2.18565141] w\_new= [-0.07417174 0.88851591 2.18565583]

gradient= [-3.69699533e-04 -7.22123508e-05 4.41911884e-04] w = [-0.07417174 0.88851591 2.18565583] w\_new= [-0.07417544 0.88851518 2.18566025]

gradient= [-3.69180160e-04 -7.21215448e-05 4.41301705e-04] w = [-0.07417544 0.88851518 2.18566025] w\_new= [-0.07417913 0.88851446 2.18566467]

gradient= [-3.68661519e-04 -7.20308508e-05 4.40692370e-04] w = [-0.07417913 0.88851446 2.18566467] w\_new= [-0.07418282 0.88851374 2.18566907]

gradient= [-3.68143608e-04 -7.19402687e-05 4.40083877e-04] w = [-0.07418282 0.88851374 2.18566907] w\_new= [-0.0741865 0.88851302 2.18567347]

gradient= [-3.67626427e-04 -7.18497983e-05 4.39476225e-04] w = [-0.0741865 0.88851302 2.18567347] w\_new= [-0.07419017 0.88851231 2.18567787]

gradient= [-3.67109974e-04 -7.17594395e-05 4.38869413e-04] w = [-0.07419017 0.88851231 2.18567787] w\_new= [-0.07419385 0.88851159 2.18568226]

gradient= [-3.66594248e-04 -7.16691922e-05 4.38263440e-04] w = [-0.07419385 0.88851159 2.18568226] w\_new= [-0.07419751 0.88851087 2.18568664]

gradient= [-3.66079249e-04 -7.15790562e-05 4.37658305e-04] w = [-0.07419751 0.88851087 2.18568664] w\_new= [-0.07420117 0.88851016 2.18569102]

gradient= [-3.65564975e-04 -7.14890314e-05 4.37054007e-04] w = [-0.07420117 0.88851016 2.18569102] w\_new= [-0.07420483 0.88850944 2.18569539]

gradient= [-3.65051426e-04 -7.13991176e-05 4.36450544e-04] w = [-0.07420483 0.88850944 2.18569539] w\_new= [-0.07420848 0.88850873 2.18569975]

gradient= [-3.64538600e-04 -7.13093148e-05 4.35847915e-04] w = [-0.07420848 0.88850873 2.18569975] w\_new= [-0.07421212 0.88850801 2.18570411]

gradient= [-3.64026496e-04 -7.12196228e-05 4.35246119e-04] w = [-0.07421212 0.88850801 2.18570411] w\_new= [-0.07421576 0.8885073 2.18570846]

gradient= [-3.63515113e-04 -7.11300415e-05 4.34645155e-04] w = [-0.07421576 0.8885073 2.18570846] w\_new= [-0.0742194 0.88850659 2.18571281]

gradient= [-3.63004451e-04 -7.10405706e-05 4.34045022e-04] w = [-0.0742194 0.88850659 2.18571281] w\_new= [-0.07422303 0.88850588 2.18571715]

gradient= [-3.62494508e-04 -7.09512102e-05 4.33445718e-04] w = [-0.07422303 0.88850588 2.18571715] w\_new= [-0.07422665 0.88850517 2.18572148]

gradient= [-3.61985283e-04 -7.08619601e-05 4.32847243e-04] w = [-0.07422665 0.88850517 2.18572148] w\_new= [-0.07423027 0.88850446 2.18572581]

gradient= [-3.61476775e-04 -7.07728200e-05 4.32249596e-04] w = [-0.07423027 0.88850446 2.18572581] w\_new= [-0.07423389 0.88850375 2.18573014]

gradient= [-3.60968984e-04 -7.06837900e-05 4.31652774e-04] w = [-0.07423389 0.88850375 2.18573014] w\_new= [-0.0742375 0.88850305 2.18573445]

gradient= [-3.60461908e-04 -7.05948698e-05 4.31056777e-04] w = [-0.0742375 0.88850305 2.18573445] w\_new= [-0.0742411 0.88850234 2.18573876]

gradient= [-3.59955545e-04 -7.05060594e-05 4.30461605e-04] w = [-0.0742411 0.88850234 2.18573876] w\_new= [-0.0742447 0.88850164 2.18574307]

gradient= [-3.59449896e-04 -7.04173585e-05 4.29867255e-04] w = [-0.0742447 0.88850164 2.18574307] w\_new= [-0.0742483 0.88850093 2.18574737]

gradient= [-3.58944960e-04 -7.03287672e-05 4.29273727e-04] w = [-0.0742483 0.88850093 2.18574737] w\_new= [-0.07425189 0.88850023 2.18575166]

gradient= [-3.58440734e-04 -7.02402851e-05 4.28681019e-04] w = [-0.07425189 0.88850023 2.18575166] w\_new= [-0.07425547 0.88849953 2.18575595]

gradient= [-3.57937218e-04 -7.01519123e-05 4.28089130e-04] w = [-0.07425547 0.88849953 2.18575595] w\_new= [-0.07425905 0.88849882 2.18576023]

gradient= [-3.57434412e-04 -7.00636485e-05 4.27498060e-04] w = [-0.07425905 0.88849882 2.18576023] w\_new= [-0.07426262 0.88849812 2.1857645 ]

gradient= [-3.56932313e-04 -6.99754937e-05 4.26907807e-04] w = [-0.07426262 0.88849812 2.1857645 ] w\_new= [-0.07426619 0.88849742 2.18576877]

gradient= [-3.56430922e-04 -6.98874477e-05 4.26318370e-04] w = [-0.07426619 0.88849742 2.18576877] w\_new= [-0.07426976 0.88849673 2.18577303]

gradient= [-3.55930237e-04 -6.97995104e-05 4.25729747e-04] w = [-0.07426976 0.88849673 2.18577303] w\_new= [-0.07427332 0.88849603 2.18577729]

gradient= [-3.55430257e-04 -6.97116816e-05 4.25141938e-04] w = [-0.07427332 0.88849603 2.18577729] w\_new= [-0.07427687 0.88849533 2.18578154]

gradient= [-3.54930981e-04 -6.96239612e-05 4.24554942e-04] w = [-0.07427687 0.88849533 2.18578154] w\_new= [-0.07428042 0.88849463 2.18578579]

gradient= [-3.54432408e-04 -6.95363491e-05 4.23968757e-04] w = [-0.07428042 0.88849463 2.18578579] w\_new= [-0.07428397 0.88849394 2.18579003]

gradient= [-3.53934538e-04 -6.94488452e-05 4.23383383e-04] w = [-0.07428397 0.88849394 2.18579003] w\_new= [-0.0742875 0.88849324 2.18579426]

gradient= [-3.53437368e-04 -6.93614493e-05 4.22798817e-04] w = [-0.0742875 0.88849324 2.18579426] w\_new= [-0.07429104 0.88849255 2.18579849]

gradient= [-3.52940899e-04 -6.92741613e-05 4.22215060e-04] w = [-0.07429104 0.88849255 2.18579849] w\_new= [-0.07429457 0.88849186 2.18580271]

gradient= [-3.52445129e-04 -6.91869811e-05 4.21632110e-04] w = [-0.07429457 0.88849186 2.18580271] w\_new= [-0.07429809 0.88849117 2.18580693]

gradient= [-3.51950057e-04 -6.90999085e-05 4.21049965e-04] w = [-0.07429809 0.88849117 2.18580693] w\_new= [-0.07430161 0.88849047 2.18581114]

gradient= [-3.51455682e-04 -6.90129433e-05 4.20468625e-04] w = [-0.07430161 0.88849047 2.18581114] w\_new= [-0.07430513 0.88848978 2.18581534]

gradient= [-3.50962003e-04 -6.89260856e-05 4.19888089e-04] w = [-0.07430513 0.88848978 2.18581534] w\_new= [-0.07430864 0.8884891 2.18581954]

gradient= [-3.50469020e-04 -6.88393351e-05 4.19308355e-04] w = [-0.07430864 0.8884891 2.18581954] w\_new= [-0.07431214 0.88848841 2.18582373]

gradient= [-3.49976731e-04 -6.87526918e-05 4.18729422e-04] w = [-0.07431214 0.88848841 2.18582373] w\_new= [-0.07431564 0.88848772 2.18582792]

gradient= [-3.49485135e-04 -6.86661554e-05 4.18151290e-04] w = [-0.07431564 0.88848772 2.18582792] w\_new= [-0.07431914 0.88848703 2.1858321 ]

gradient= [-3.48994231e-04 -6.85797258e-05 4.17573957e-04] w = [-0.07431914 0.88848703 2.1858321 ] w\_new= [-0.07432263 0.88848635 2.18583628]

gradient= [-3.48504019e-04 -6.84934031e-05 4.16997422e-04] w = [-0.07432263 0.88848635 2.18583628] w\_new= [-0.07432611 0.88848566 2.18584045]

gradient= [-3.48014497e-04 -6.84071869e-05 4.16421684e-04] w = [-0.07432611 0.88848566 2.18584045] w\_new= [-0.07432959 0.88848498 2.18584461]

gradient= [-3.47525664e-04 -6.83210771e-05 4.15846741e-04] w = [-0.07432959 0.88848498 2.18584461] w\_new= [-0.07433307 0.88848429 2.18584877]

gradient= [-3.47037520e-04 -6.82350738e-05 4.15272593e-04] w = [-0.07433307 0.88848429 2.18584877] w\_new= [-0.07433654 0.88848361 2.18585292]

gradient= [-3.46550063e-04 -6.81491766e-05 4.14699239e-04] w = [-0.07433654 0.88848361 2.18585292] w\_new= [-0.07434 0.88848293 2.18585707]

gradient= [-3.46063292e-04 -6.80633855e-05 4.14126678e-04] w = [-0.07434 0.88848293 2.18585707] w\_new= [-0.07434346 0.88848225 2.18586121]

gradient= [-3.45577207e-04 -6.79777004e-05 4.13554908e-04] w = [-0.07434346 0.88848225 2.18586121] w\_new= [-0.07434692 0.88848157 2.18586535]

gradient= [-3.45091807e-04 -6.78921211e-05 4.12983928e-04] w = [-0.07434692 0.88848157 2.18586535] w\_new= [-0.07435037 0.88848089 2.18586948]

gradient= [-3.44607090e-04 -6.78066475e-05 4.12413737e-04] w = [-0.07435037 0.88848089 2.18586948] w\_new= [-0.07435382 0.88848021 2.1858736 ]

gradient= [-3.44123055e-04 -6.77212795e-05 4.11844335e-04] w = [-0.07435382 0.88848021 2.1858736 ] w\_new= [-0.07435726 0.88847954 2.18587772]

gradient= [-3.43639702e-04 -6.76360169e-05 4.11275719e-04] w = [-0.07435726 0.88847954 2.18587772] w\_new= [-0.07436069 0.88847886 2.18588183]

gradient= [-3.43157030e-04 -6.75508597e-05 4.10707889e-04] w = [-0.07436069 0.88847886 2.18588183] w\_new= [-0.07436413 0.88847818 2.18588594]

gradient= [-3.42675037e-04 -6.74658077e-05 4.10140845e-04] w = [-0.07436413 0.88847818 2.18588594] w\_new= [-0.07436755 0.88847751 2.18589004]

gradient= [-3.42193723e-04 -6.73808607e-05 4.09574584e-04] w = [-0.07436755 0.88847751 2.18589004] w\_new= [-0.07437097 0.88847684 2.18589414]

gradient= [-3.41713087e-04 -6.72960186e-05 4.09009106e-04] w = [-0.07437097 0.88847684 2.18589414] w\_new= [-0.07437439 0.88847616 2.18589823]

gradient= [-3.41233127e-04 -6.72112814e-05 4.08444409e-04] w = [-0.07437439 0.88847616 2.18589823] w\_new= [-0.0743778 0.88847549 2.18590231]

gradient= [-3.40753844e-04 -6.71266489e-05 4.07880493e-04] w = [-0.0743778 0.88847549 2.18590231] w\_new= [-0.07438121 0.88847482 2.18590639]

gradient= [-3.40275235e-04 -6.70421209e-05 4.07317356e-04] w = [-0.07438121 0.88847482 2.18590639] w\_new= [-0.07438461 0.88847415 2.18591046]

gradient= [-3.39797300e-04 -6.69576974e-05 4.06754998e-04] w = [-0.07438461 0.88847415 2.18591046] w\_new= [-0.07438801 0.88847348 2.18591453]

gradient= [-3.39320038e-04 -6.68733781e-05 4.06193417e-04] w = [-0.07438801 0.88847348 2.18591453] w\_new= [-0.0743914 0.88847281 2.18591859]

gradient= [-3.38843449e-04 -6.67891631e-05 4.05632612e-04] w = [-0.0743914 0.88847281 2.18591859] w\_new= [-0.07439479 0.88847214 2.18592265]

gradient= [-3.38367530e-04 -6.67050521e-05 4.05072582e-04] w = [-0.07439479 0.88847214 2.18592265] w\_new= [-0.07439818 0.88847148 2.1859267 ]

gradient= [-3.37892281e-04 -6.66210450e-05 4.04513326e-04] w = [-0.07439818 0.88847148 2.1859267 ] w\_new= [-0.07440156 0.88847081 2.18593075]

gradient= [-3.37417702e-04 -6.65371418e-05 4.03954843e-04] w = [-0.07440156 0.88847081 2.18593075] w\_new= [-0.07440493 0.88847014 2.18593479]

gradient= [-3.36943790e-04 -6.64533422e-05 4.03397132e-04] w = [-0.07440493 0.88847014 2.18593479] w\_new= [-0.0744083 0.88846948 2.18593882]

gradient= [-3.36470546e-04 -6.63696462e-05 4.02840192e-04] w = [-0.0744083 0.88846948 2.18593882] w\_new= [-0.07441166 0.88846882 2.18594285]

gradient= [-3.35997968e-04 -6.62860536e-05 4.02284022e-04] w = [-0.07441166 0.88846882 2.18594285] w\_new= [-0.07441502 0.88846815 2.18594687]

gradient= [-3.35526056e-04 -6.62025643e-05 4.01728620e-04] w = [-0.07441502 0.88846815 2.18594687] w\_new= [-0.07441838 0.88846749 2.18595089]

gradient= [-3.35054808e-04 -6.61191782e-05 4.01173987e-04] w = [-0.07441838 0.88846749 2.18595089] w\_new= [-0.07442173 0.88846683 2.1859549 ]

gradient= [-3.34584224e-04 -6.60358952e-05 4.00620119e-04] w = [-0.07442173 0.88846683 2.1859549 ] w\_new= [-0.07442508 0.88846617 2.18595891]

gradient= [-3.34114302e-04 -6.59527151e-05 4.00067017e-04] w = [-0.07442508 0.88846617 2.18595891] w\_new= [-0.07442842 0.88846551 2.18596291]

gradient= [-3.33645042e-04 -6.58696378e-05 3.99514680e-04] w = [-0.07442842 0.88846551 2.18596291] w\_new= [-0.07443175 0.88846485 2.1859669 ]

gradient= [-3.33176443e-04 -6.57866632e-05 3.98963106e-04] w = [-0.07443175 0.88846485 2.1859669 ] w\_new= [-0.07443508 0.88846419 2.18597089]

gradient= [-3.32708503e-04 -6.57037911e-05 3.98412294e-04] w = [-0.07443508 0.88846419 2.18597089] w\_new= [-0.07443841 0.88846354 2.18597488]

gradient= [-3.32241222e-04 -6.56210215e-05 3.97862244e-04] w = [-0.07443841 0.88846354 2.18597488] w\_new= [-0.07444173 0.88846288 2.18597885]

gradient= [-3.31774599e-04 -6.55383542e-05 3.97312953e-04] w = [-0.07444173 0.88846288 2.18597885] w\_new= [-0.07444505 0.88846222 2.18598283]

gradient= [-3.31308633e-04 -6.54557891e-05 3.96764422e-04] w = [-0.07444505 0.88846222 2.18598283] w\_new= [-0.07444837 0.88846157 2.18598679]

gradient= [-3.30843323e-04 -6.53733260e-05 3.96216649e-04] w = [-0.07444837 0.88846157 2.18598679] w\_new= [-0.07445167 0.88846092 2.18599076]

gradient= [-3.30378668e-04 -6.52909649e-05 3.95669633e-04] w = [-0.07445167 0.88846092 2.18599076] w\_new= [-0.07445498 0.88846026 2.18599471]

gradient= [-3.29914668e-04 -6.52087056e-05 3.95123373e-04] w = [-0.07445498 0.88846026 2.18599471] w\_new= [-0.07445828 0.88845961 2.18599867]

gradient= [-3.29451320e-04 -6.51265480e-05 3.94577868e-04] w = [-0.07445828 0.88845961 2.18599867] w\_new= [-0.07446157 0.88845896 2.18600261]

gradient= [-3.28988625e-04 -6.50444920e-05 3.94033117e-04] w = [-0.07446157 0.88845896 2.18600261] w\_new= [-0.07446486 0.88845831 2.18600655]

gradient= [-3.28526582e-04 -6.49625374e-05 3.93489119e-04] w = [-0.07446486 0.88845831 2.18600655] w\_new= [-0.07446815 0.88845766 2.18601049]

gradient= [-3.28065189e-04 -6.48806842e-05 3.92945873e-04] w = [-0.07446815 0.88845766 2.18601049] w\_new= [-0.07447143 0.88845701 2.18601442]

gradient= [-3.27604445e-04 -6.47989321e-05 3.92403377e-04] w = [-0.07447143 0.88845701 2.18601442] w\_new= [-0.0744747 0.88845636 2.18601834]

gradient= [-3.27144351e-04 -6.47172812e-05 3.91861632e-04] w = [-0.0744747 0.88845636 2.18601834] w\_new= [-0.07447797 0.88845572 2.18602226]

gradient= [-3.26684903e-04 -6.46357312e-05 3.91320635e-04] w = [-0.07447797 0.88845572 2.18602226] w\_new= [-0.07448124 0.88845507 2.18602617]

gradient= [-3.26226103e-04 -6.45542820e-05 3.90780385e-04] w = [-0.07448124 0.88845507 2.18602617] w\_new= [-0.0744845 0.88845442 2.18603008]

gradient= [-3.25767949e-04 -6.44729336e-05 3.90240882e-04] w = [-0.0744845 0.88845442 2.18603008] w\_new= [-0.07448776 0.88845378 2.18603398]

gradient= [-3.25310440e-04 -6.43916858e-05 3.89702125e-04] w = [-0.07448776 0.88845378 2.18603398] w\_new= [-0.07449101 0.88845314 2.18603788]

gradient= [-3.24853574e-04 -6.43105384e-05 3.89164113e-04] w = [-0.07449101 0.88845314 2.18603788] w\_new= [-0.07449426 0.88845249 2.18604177]

gradient= [-3.24397352e-04 -6.42294914e-05 3.88626844e-04] w = [-0.07449426 0.88845249 2.18604177] w\_new= [-0.07449751 0.88845185 2.18604566]

gradient= [-3.23941773e-04 -6.41485446e-05 3.88090317e-04] w = [-0.07449751 0.88845185 2.18604566] w\_new= [-0.07450075 0.88845121 2.18604954]

gradient= [-3.23486834e-04 -6.40676979e-05 3.87554532e-04] w = [-0.07450075 0.88845121 2.18604954] w\_new= [-0.07450398 0.88845057 2.18605341]

gradient= [-3.23032536e-04 -6.39869513e-05 3.87019488e-04] w = [-0.07450398 0.88845057 2.18605341] w\_new= [-0.07450721 0.88844993 2.18605728]

gradient= [-3.22578878e-04 -6.39063044e-05 3.86485182e-04] w = [-0.07450721 0.88844993 2.18605728] w\_new= [-0.07451044 0.88844929 2.18606115]

gradient= [-3.22125858e-04 -6.38257574e-05 3.85951616e-04] w = [-0.07451044 0.88844929 2.18606115] w\_new= [-0.07451366 0.88844865 2.18606501]

gradient= [-3.21673476e-04 -6.37453099e-05 3.85418786e-04] w = [-0.07451366 0.88844865 2.18606501] w\_new= [-0.07451688 0.88844801 2.18606886]

gradient= [-3.21221731e-04 -6.36649620e-05 3.84886693e-04] w = [-0.07451688 0.88844801 2.18606886] w\_new= [-0.07452009 0.88844738 2.18607271]

gradient= [-3.20770622e-04 -6.35847135e-05 3.84355335e-04] w = [-0.07452009 0.88844738 2.18607271] w\_new= [-0.0745233 0.88844674 2.18607655]

gradient= [-3.20320148e-04 -6.35045642e-05 3.83824712e-04] w = [-0.0745233 0.88844674 2.18607655] w\_new= [-0.0745265 0.88844611 2.18608039]

gradient= [-3.19870308e-04 -6.34245141e-05 3.83294822e-04] w = [-0.0745265 0.88844611 2.18608039] w\_new= [-0.0745297 0.88844547 2.18608423]

gradient= [-3.19421101e-04 -6.33445630e-05 3.82765664e-04] w = [-0.0745297 0.88844547 2.18608423] w\_new= [-0.07453289 0.88844484 2.18608805]

gradient= [-3.18972527e-04 -6.32647108e-05 3.82237238e-04] w = [-0.07453289 0.88844484 2.18608805] w\_new= [-0.07453608 0.88844421 2.18609188]

gradient= [-3.18524584e-04 -6.31849574e-05 3.81709541e-04] w = [-0.07453608 0.88844421 2.18609188] w\_new= [-0.07453927 0.88844357 2.18609569]

gradient= [-3.18077272e-04 -6.31053026e-05 3.81182574e-04] w = [-0.07453927 0.88844357 2.18609569] w\_new= [-0.07454245 0.88844294 2.1860995 ]

gradient= [-3.17630589e-04 -6.30257465e-05 3.80656336e-04] w = [-0.07454245 0.88844294 2.1860995 ] w\_new= [-0.07454562 0.88844231 2.18610331]

gradient= [-3.17184535e-04 -6.29462887e-05 3.80130824e-04] w = [-0.07454562 0.88844231 2.18610331] w\_new= [-0.0745488 0.88844168 2.18610711]

gradient= [-3.16739110e-04 -6.28669293e-05 3.79606039e-04] w = [-0.0745488 0.88844168 2.18610711] w\_new= [-0.07455196 0.88844105 2.18611091]

gradient= [-3.16294311e-04 -6.27876680e-05 3.79081979e-04] w = [-0.07455196 0.88844105 2.18611091] w\_new= [-0.07455513 0.88844043 2.1861147 ]

gradient= [-3.15850138e-04 -6.27085048e-05 3.78558643e-04] w = [-0.07455513 0.88844043 2.1861147 ] w\_new= [-0.07455828 0.8884398 2.18611848]

gradient= [-3.15406590e-04 -6.26294396e-05 3.78036030e-04] w = [-0.07455828 0.8884398 2.18611848] w\_new= [-0.07456144 0.88843917 2.18612226]

gradient= [-3.14963667e-04 -6.25504722e-05 3.77514140e-04] w = [-0.07456144 0.88843917 2.18612226] w\_new= [-0.07456459 0.88843855 2.18612604]

gradient= [-3.14521368e-04 -6.24716026e-05 3.76992970e-04] w = [-0.07456459 0.88843855 2.18612604] w\_new= [-0.07456773 0.88843792 2.18612981]

gradient= [-3.14079691e-04 -6.23928305e-05 3.76472521e-04] w = [-0.07456773 0.88843792 2.18612981] w\_new= [-0.07457087 0.8884373 2.18613357]

gradient= [-3.13638635e-04 -6.23141559e-05 3.75952791e-04] w = [-0.07457087 0.8884373 2.18613357] w\_new= [-0.07457401 0.88843668 2.18613733]

gradient= [-3.13198201e-04 -6.22355787e-05 3.75433780e-04] w = [-0.07457401 0.88843668 2.18613733] w\_new= [-0.07457714 0.88843605 2.18614109]

gradient= [-3.12758387e-04 -6.21570987e-05 3.74915485e-04] w = [-0.07457714 0.88843605 2.18614109] w\_new= [-0.07458027 0.88843543 2.18614484]

gradient= [-3.12319191e-04 -6.20787159e-05 3.74397907e-04] w = [-0.07458027 0.88843543 2.18614484] w\_new= [-0.07458339 0.88843481 2.18614858]

gradient= [-3.11880614e-04 -6.20004300e-05 3.73881044e-04] w = [-0.07458339 0.88843481 2.18614858] w\_new= [-0.07458651 0.88843419 2.18615232]

gradient= [-3.11442654e-04 -6.19222411e-05 3.73364895e-04] w = [-0.07458651 0.88843419 2.18615232] w\_new= [-0.07458963 0.88843357 2.18615605]

gradient= [-3.11005311e-04 -6.18441489e-05 3.72849460e-04] w = [-0.07458963 0.88843357 2.18615605] w\_new= [-0.07459274 0.88843295 2.18615978]

gradient= [-3.10568583e-04 -6.17661534e-05 3.72334737e-04] w = [-0.07459274 0.88843295 2.18615978] w\_new= [-0.07459584 0.88843234 2.18616351]

gradient= [-3.10132470e-04 -6.16882545e-05 3.71820725e-04] w = [-0.07459584 0.88843234 2.18616351] w\_new= [-0.07459894 0.88843172 2.18616722]

gradient= [-3.09696971e-04 -6.16104519e-05 3.71307423e-04] w = [-0.07459894 0.88843172 2.18616722] w\_new= [-0.07460204 0.8884311 2.18617094]

gradient= [-3.09262085e-04 -6.15327457e-05 3.70794831e-04] w = [-0.07460204 0.8884311 2.18617094] w\_new= [-0.07460513 0.88843049 2.18617465]

gradient= [-3.08827811e-04 -6.14551357e-05 3.70282947e-04] w = [-0.07460513 0.88843049 2.18617465] w\_new= [-0.07460822 0.88842987 2.18617835]

gradient= [-3.08394148e-04 -6.13776218e-05 3.69771770e-04] w = [-0.07460822 0.88842987 2.18617835] w\_new= [-0.07461131 0.88842926 2.18618205]

gradient= [-3.07961096e-04 -6.13002038e-05 3.69261300e-04] w = [-0.07461131 0.88842926 2.18618205] w\_new= [-0.07461438 0.88842865 2.18618574]

gradient= [-3.07528653e-04 -6.12228816e-05 3.68751535e-04] w = [-0.07461438 0.88842865 2.18618574] w\_new= [-0.07461746 0.88842803 2.18618943]

gradient= [-3.07096819e-04 -6.11456552e-05 3.68242474e-04] w = [-0.07461746 0.88842803 2.18618943] w\_new= [-0.07462053 0.88842742 2.18619311]

gradient= [-3.06665593e-04 -6.10685244e-05 3.67734117e-04] w = [-0.07462053 0.88842742 2.18619311] w\_new= [-0.0746236 0.88842681 2.18619679]

gradient= [-3.06234973e-04 -6.09914891e-05 3.67226463e-04] w = [-0.0746236 0.88842681 2.18619679] w\_new= [-0.07462666 0.8884262 2.18620046]

gradient= [-3.05804960e-04 -6.09145492e-05 3.66719509e-04] w = [-0.07462666 0.8884262 2.18620046] w\_new= [-0.07462972 0.88842559 2.18620413]

gradient= [-3.05375552e-04 -6.08377045e-05 3.66213257e-04] w = [-0.07462972 0.88842559 2.18620413] w\_new= [-0.07463277 0.88842498 2.18620779]

gradient= [-3.04946749e-04 -6.07609550e-05 3.65707704e-04] w = [-0.07463277 0.88842498 2.18620779] w\_new= [-0.07463582 0.88842438 2.18621144]

gradient= [-3.04518549e-04 -6.06843005e-05 3.65202849e-04] w = [-0.07463582 0.88842438 2.18621144] w\_new= [-0.07463887 0.88842377 2.1862151 ]

gradient= [-3.04090951e-04 -6.06077410e-05 3.64698692e-04] w = [-0.07463887 0.88842377 2.1862151 ] w\_new= [-0.07464191 0.88842316 2.18621874]

gradient= [-3.03663956e-04 -6.05312763e-05 3.64195232e-04] w = [-0.07464191 0.88842316 2.18621874] w\_new= [-0.07464494 0.88842256 2.18622239]

gradient= [-3.03237561e-04 -6.04549062e-05 3.63692468e-04] w = [-0.07464494 0.88842256 2.18622239] w\_new= [-0.07464798 0.88842195 2.18622602]

gradient= [-3.02811767e-04 -6.03786307e-05 3.63190398e-04] w = [-0.07464798 0.88842195 2.18622602] w\_new= [-0.074651 0.88842135 2.18622965]

gradient= [-3.02386572e-04 -6.03024497e-05 3.62689022e-04] w = [-0.074651 0.88842135 2.18622965] w\_new= [-0.07465403 0.88842075 2.18623328]

gradient= [-3.01961975e-04 -6.02263631e-05 3.62188338e-04] w = [-0.07465403 0.88842075 2.18623328] w\_new= [-0.07465705 0.88842014 2.1862369 ]

gradient= [-3.01537976e-04 -6.01503706e-05 3.61688347e-04] w = [-0.07465705 0.88842014 2.1862369 ] w\_new= [-0.07466006 0.88841954 2.18624052]

gradient= [-3.01114574e-04 -6.00744723e-05 3.61189046e-04] w = [-0.07466006 0.88841954 2.18624052] w\_new= [-0.07466307 0.88841894 2.18624413]

gradient= [-3.00691768e-04 -5.99986680e-05 3.60690436e-04] w = [-0.07466307 0.88841894 2.18624413] w\_new= [-0.07466608 0.88841834 2.18624774]

gradient= [-3.00269556e-04 -5.99229576e-05 3.60192514e-04] w = [-0.07466608 0.88841834 2.18624774] w\_new= [-0.07466908 0.88841774 2.18625134]

gradient= [-2.99847939e-04 -5.98473410e-05 3.59695280e-04] w = [-0.07466908 0.88841774 2.18625134] w\_new= [-0.07467208 0.88841714 2.18625494]

gradient= [-2.99426916e-04 -5.97718180e-05 3.59198734e-04] w = [-0.07467208 0.88841714 2.18625494] w\_new= [-0.07467508 0.88841655 2.18625853]

gradient= [-2.99006485e-04 -5.96963886e-05 3.58702873e-04] w = [-0.07467508 0.88841655 2.18625853] w\_new= [-0.07467807 0.88841595 2.18626212]

gradient= [-2.98586645e-04 -5.96210526e-05 3.58207698e-04] w = [-0.07467807 0.88841595 2.18626212] w\_new= [-0.07468105 0.88841535 2.1862657 ]

gradient= [-2.98167397e-04 -5.95458100e-05 3.57713207e-04] w = [-0.07468105 0.88841535 2.1862657 ] w\_new= [-0.07468403 0.88841476 2.18626928]

gradient= [-2.97748738e-04 -5.94706606e-05 3.57219399e-04] w = [-0.07468403 0.88841476 2.18626928] w\_new= [-0.07468701 0.88841416 2.18627285]

gradient= [-2.97330669e-04 -5.93956042e-05 3.56726273e-04] w = [-0.07468701 0.88841416 2.18627285] w\_new= [-0.07468999 0.88841357 2.18627642]

gradient= [-2.96913188e-04 -5.93206409e-05 3.56233829e-04] w = [-0.07468999 0.88841357 2.18627642] w\_new= [-0.07469295 0.88841298 2.18627998]

gradient= [-2.96496295e-04 -5.92457704e-05 3.55742065e-04] w = [-0.07469295 0.88841298 2.18627998] w\_new= [-0.07469592 0.88841238 2.18628353]

gradient= [-2.96079988e-04 -5.91709927e-05 3.55250981e-04] w = [-0.07469592 0.88841238 2.18628353] w\_new= [-0.07469888 0.88841179 2.18628709]

gradient= [-2.95664267e-04 -5.90963076e-05 3.54760575e-04] w = [-0.07469888 0.88841179 2.18628709] w\_new= [-0.07470184 0.8884112 2.18629064]

gradient= [-2.95249132e-04 -5.90217151e-05 3.54270847e-04] w = [-0.07470184 0.8884112 2.18629064] w\_new= [-0.07470479 0.88841061 2.18629418]

gradient= [-2.94834580e-04 -5.89472150e-05 3.53781795e-04] w = [-0.07470479 0.88841061 2.18629418] w\_new= [-0.07470774 0.88841002 2.18629772]

gradient= [-2.94420612e-04 -5.88728072e-05 3.53293419e-04] w = [-0.07470774 0.88841002 2.18629772] w\_new= [-0.07471068 0.88840943 2.18630125]

gradient= [-2.94007227e-04 -5.87984916e-05 3.52805718e-04] w = [-0.07471068 0.88840943 2.18630125] w\_new= [-0.07471362 0.88840885 2.18630478]

gradient= [-2.93594423e-04 -5.87242681e-05 3.52318691e-04] w = [-0.07471362 0.88840885 2.18630478] w\_new= [-0.07471656 0.88840826 2.1863083 ]

gradient= [-2.93182200e-04 -5.86501366e-05 3.51832337e-04] w = [-0.07471656 0.88840826 2.1863083 ] w\_new= [-0.07471949 0.88840767 2.18631182]

gradient= [-2.92770558e-04 -5.85760970e-05 3.51346655e-04] w = [-0.07471949 0.88840767 2.18631182] w\_new= [-0.07472242 0.88840709 2.18631533]

gradient= [-2.92359495e-04 -5.85021491e-05 3.50861644e-04] w = [-0.07472242 0.88840709 2.18631533] w\_new= [-0.07472534 0.8884065 2.18631884]

gradient= [-2.91949010e-04 -5.84282928e-05 3.50377303e-04] w = [-0.07472534 0.8884065 2.18631884] w\_new= [-0.07472826 0.88840592 2.18632234]

gradient= [-2.91539103e-04 -5.83545281e-05 3.49893631e-04] w = [-0.07472826 0.88840592 2.18632234] w\_new= [-0.07473118 0.88840533 2.18632584]

gradient= [-2.91129772e-04 -5.82808548e-05 3.49410627e-04] w = [-0.07473118 0.88840533 2.18632584] w\_new= [-0.07473409 0.88840475 2.18632934]

gradient= [-2.90721018e-04 -5.82072729e-05 3.48928291e-04] w = [-0.07473409 0.88840475 2.18632934] w\_new= [-0.07473699 0.88840417 2.18633283]

gradient= [-2.90312839e-04 -5.81337821e-05 3.48446621e-04] w = [-0.07473699 0.88840417 2.18633283] w\_new= [-0.0747399 0.88840359 2.18633631]

gradient= [-2.89905234e-04 -5.80603824e-05 3.47965617e-04] w = [-0.0747399 0.88840359 2.18633631] w\_new= [-0.0747428 0.88840301 2.18633979]

gradient= [-2.89498203e-04 -5.79870737e-05 3.47485277e-04] w = [-0.0747428 0.88840301 2.18633979] w\_new= [-0.07474569 0.88840243 2.18634327]

gradient= [-2.89091745e-04 -5.79138559e-05 3.47005601e-04] w = [-0.07474569 0.88840243 2.18634327] w\_new= [-0.07474858 0.88840185 2.18634674]

gradient= [-2.88685859e-04 -5.78407288e-05 3.46526588e-04] w = [-0.07474858 0.88840185 2.18634674] w\_new= [-0.07475147 0.88840127 2.1863502 ]

gradient= [-2.88280544e-04 -5.77676924e-05 3.46048236e-04] w = [-0.07475147 0.88840127 2.1863502 ] w\_new= [-0.07475435 0.88840069 2.18635366]

gradient= [-2.87875799e-04 -5.76947465e-05 3.45570546e-04] w = [-0.07475435 0.88840069 2.18635366] w\_new= [-0.07475723 0.88840011 2.18635712]

gradient= [-2.87471624e-04 -5.76218910e-05 3.45093515e-04] w = [-0.07475723 0.88840011 2.18635712] w\_new= [-0.07476011 0.88839954 2.18636057]

gradient= [-2.87068018e-04 -5.75491259e-05 3.44617144e-04] w = [-0.07476011 0.88839954 2.18636057] w\_new= [-0.07476298 0.88839896 2.18636401]

gradient= [-2.86664979e-04 -5.74764510e-05 3.44141430e-04] w = [-0.07476298 0.88839896 2.18636401] w\_new= [-0.07476584 0.88839839 2.18636746]

gradient= [-2.86262508e-04 -5.74038662e-05 3.43666374e-04] w = [-0.07476584 0.88839839 2.18636746] w\_new= [-0.07476871 0.88839781 2.18637089]

gradient= [-2.85860603e-04 -5.73313713e-05 3.43191975e-04] w = [-0.07476871 0.88839781 2.18637089] w\_new= [-0.07477156 0.88839724 2.18637432]

gradient= [-2.85459264e-04 -5.72589664e-05 3.42718230e-04] w = [-0.07477156 0.88839724 2.18637432] w\_new= [-0.07477442 0.88839667 2.18637775]

gradient= [-2.85058489e-04 -5.71866513e-05 3.42245141e-04] w = [-0.07477442 0.88839667 2.18637775] w\_new= [-0.07477727 0.8883961 2.18638117]

gradient= [-2.84658279e-04 -5.71144258e-05 3.41772704e-04] w = [-0.07477727 0.8883961 2.18638117] w\_new= [-0.07478012 0.88839552 2.18638459]

gradient= [-2.84258631e-04 -5.70422898e-05 3.41300921e-04] w = [-0.07478012 0.88839552 2.18638459] w\_new= [-0.07478296 0.88839495 2.186388 ]

gradient= [-2.83859546e-04 -5.69702433e-05 3.40829790e-04] w = [-0.07478296 0.88839495 2.186388 ] w\_new= [-0.0747858 0.88839438 2.18639141]

gradient= [-2.83461023e-04 -5.68982862e-05 3.40359309e-04] w = [-0.0747858 0.88839438 2.18639141] w\_new= [-0.07478863 0.88839382 2.18639482]

gradient= [-2.83063060e-04 -5.68264183e-05 3.39889478e-04] w = [-0.07478863 0.88839382 2.18639482] w\_new= [-0.07479146 0.88839325 2.18639822]

gradient= [-2.82665657e-04 -5.67546395e-05 3.39420297e-04] w = [-0.07479146 0.88839325 2.18639822] w\_new= [-0.07479429 0.88839268 2.18640161]

gradient= [-2.82268814e-04 -5.66829497e-05 3.38951763e-04] w = [-0.07479429 0.88839268 2.18640161] w\_new= [-0.07479711 0.88839211 2.186405 ]

gradient= [-2.81872528e-04 -5.66113489e-05 3.38483877e-04] w = [-0.07479711 0.88839211 2.186405 ] w\_new= [-0.07479993 0.88839155 2.18640838]

gradient= [-2.81476801e-04 -5.65398368e-05 3.38016638e-04] w = [-0.07479993 0.88839155 2.18640838] w\_new= [-0.07480275 0.88839098 2.18641176]

gradient= [-2.81081630e-04 -5.64684135e-05 3.37550044e-04] w = [-0.07480275 0.88839098 2.18641176] w\_new= [-0.07480556 0.88839042 2.18641514]

gradient= [-2.80687016e-04 -5.63970787e-05 3.37084094e-04] w = [-0.07480556 0.88839042 2.18641514] w\_new= [-0.07480836 0.88838985 2.18641851]

gradient= [-2.80292956e-04 -5.63258324e-05 3.36618789e-04] w = [-0.07480836 0.88838985 2.18641851] w\_new= [-0.07481117 0.88838929 2.18642188]

gradient= [-2.79899451e-04 -5.62546744e-05 3.36154126e-04] w = [-0.07481117 0.88838929 2.18642188] w\_new= [-0.07481396 0.88838873 2.18642524]

gradient= [-2.79506500e-04 -5.61836048e-05 3.35690105e-04] w = [-0.07481396 0.88838873 2.18642524] w\_new= [-0.07481676 0.88838817 2.18642859]

gradient= [-2.79114102e-04 -5.61126233e-05 3.35226725e-04] w = [-0.07481676 0.88838817 2.18642859] w\_new= [-0.07481955 0.8883876 2.18643195]

gradient= [-2.78722256e-04 -5.60417298e-05 3.34763985e-04] w = [-0.07481955 0.8883876 2.18643195] w\_new= [-0.07482234 0.88838704 2.18643529]

gradient= [-2.78330961e-04 -5.59709243e-05 3.34301885e-04] w = [-0.07482234 0.88838704 2.18643529] w\_new= [-0.07482512 0.88838648 2.18643864]

gradient= [-2.77940216e-04 -5.59002066e-05 3.33840423e-04] w = [-0.07482512 0.88838648 2.18643864] w\_new= [-0.0748279 0.88838592 2.18644198]

gradient= [-2.77550022e-04 -5.58295767e-05 3.33379599e-04] w = [-0.0748279 0.88838592 2.18644198] w\_new= [-0.07483068 0.88838537 2.18644531]

gradient= [-2.77160377e-04 -5.57590344e-05 3.32919411e-04] w = [-0.07483068 0.88838537 2.18644531] w\_new= [-0.07483345 0.88838481 2.18644864]

gradient= [-2.76771279e-04 -5.56885796e-05 3.32459859e-04] w = [-0.07483345 0.88838481 2.18644864] w\_new= [-0.07483622 0.88838425 2.18645196]

gradient= [-2.76382730e-04 -5.56182122e-05 3.32000942e-04] w = [-0.07483622 0.88838425 2.18645196] w\_new= [-0.07483898 0.8883837 2.18645528]

gradient= [-2.75994727e-04 -5.55479321e-05 3.31542659e-04] w = [-0.07483898 0.8883837 2.18645528] w\_new= [-0.07484174 0.88838314 2.1864586 ]

gradient= [-2.75607269e-04 -5.54777392e-05 3.31085009e-04] w = [-0.07484174 0.88838314 2.1864586 ] w\_new= [-0.0748445 0.88838259 2.18646191]

gradient= [-2.75220358e-04 -5.54076334e-05 3.30627991e-04] w = [-0.0748445 0.88838259 2.18646191] w\_new= [-0.07484725 0.88838203 2.18646522]

gradient= [-2.74833990e-04 -5.53376146e-05 3.30171605e-04] w = [-0.07484725 0.88838203 2.18646522] w\_new= [-0.07485 0.88838148 2.18646852]

gradient= [-2.74448166e-04 -5.52676827e-05 3.29715849e-04] w = [-0.07485 0.88838148 2.18646852] w\_new= [-0.07485274 0.88838093 2.18647182]

gradient= [-2.74062885e-04 -5.51978375e-05 3.29260723e-04] w = [-0.07485274 0.88838093 2.18647182] w\_new= [-0.07485548 0.88838037 2.18647511]

gradient= [-2.73678146e-04 -5.51280791e-05 3.28806225e-04] w = [-0.07485548 0.88838037 2.18647511] w\_new= [-0.07485822 0.88837982 2.1864784 ]

gradient= [-2.73293948e-04 -5.50584072e-05 3.28352355e-04] w = [-0.07485822 0.88837982 2.1864784 ] w\_new= [-0.07486095 0.88837927 2.18648168]

gradient= [-2.72910291e-04 -5.49888217e-05 3.27899113e-04] w = [-0.07486095 0.88837927 2.18648168] w\_new= [-0.07486368 0.88837872 2.18648496]

gradient= [-2.72527174e-04 -5.49193226e-05 3.27446496e-04] w = [-0.07486368 0.88837872 2.18648496] w\_new= [-0.07486641 0.88837817 2.18648823]

gradient= [-2.72144596e-04 -5.48499098e-05 3.26994505e-04] w = [-0.07486641 0.88837817 2.18648823] w\_new= [-0.07486913 0.88837762 2.1864915 ]

gradient= [-2.71762555e-04 -5.47805831e-05 3.26543139e-04] w = [-0.07486913 0.88837762 2.1864915 ] w\_new= [-0.07487184 0.88837708 2.18649477]

gradient= [-2.71381053e-04 -5.47113425e-05 3.26092395e-04] w = [-0.07487184 0.88837708 2.18649477] w\_new= [-0.07487456 0.88837653 2.18649803]

gradient= [-2.71000087e-04 -5.46421878e-05 3.25642275e-04] w = [-0.07487456 0.88837653 2.18649803] w\_new= [-0.07487727 0.88837598 2.18650129]

gradient= [-2.70619657e-04 -5.45731189e-05 3.25192776e-04] w = [-0.07487727 0.88837598 2.18650129] w\_new= [-0.07487997 0.88837544 2.18650454]

gradient= [-2.70239763e-04 -5.45041358e-05 3.24743899e-04] w = [-0.07487997 0.88837544 2.18650454] w\_new= [-0.07488268 0.88837489 2.18650778]

gradient= [-2.69860403e-04 -5.44352383e-05 3.24295641e-04] w = [-0.07488268 0.88837489 2.18650778] w\_new= [-0.07488538 0.88837435 2.18651103]

gradient= [-2.69481576e-04 -5.43664263e-05 3.23848003e-04] w = [-0.07488538 0.88837435 2.18651103] w\_new= [-0.07488807 0.8883738 2.18651427]

gradient= [-2.69103283e-04 -5.42976997e-05 3.23400983e-04] w = [-0.07488807 0.8883738 2.18651427] w\_new= [-0.07489076 0.88837326 2.1865175 ]

gradient= [-2.68725522e-04 -5.42290585e-05 3.22954580e-04] w = [-0.07489076 0.88837326 2.1865175 ] w\_new= [-0.07489345 0.88837272 2.18652073]

gradient= [-2.68348292e-04 -5.41605025e-05 3.22508795e-04] w = [-0.07489345 0.88837272 2.18652073] w\_new= [-0.07489613 0.88837218 2.18652395]

gradient= [-2.67971593e-04 -5.40920315e-05 3.22063625e-04] w = [-0.07489613 0.88837218 2.18652395] w\_new= [-0.07489881 0.88837164 2.18652718]

gradient= [-2.67595424e-04 -5.40236456e-05 3.21619070e-04] w = [-0.07489881 0.88837164 2.18652718] w\_new= [-0.07490149 0.8883711 2.18653039]

gradient= [-2.67219785e-04 -5.39553446e-05 3.21175129e-04] w = [-0.07490149 0.8883711 2.18653039] w\_new= [-0.07490416 0.88837056 2.1865336 ]

gradient= [-2.66844673e-04 -5.38871284e-05 3.20731802e-04] w = [-0.07490416 0.88837056 2.1865336 ] w\_new= [-0.07490683 0.88837002 2.18653681]

gradient= [-2.66470090e-04 -5.38189968e-05 3.20289087e-04] w = [-0.07490683 0.88837002 2.18653681] w\_new= [-0.07490949 0.88836948 2.18654001]

gradient= [-2.66096033e-04 -5.37509499e-05 3.19846983e-04] w = [-0.07490949 0.88836948 2.18654001] w\_new= [-0.07491215 0.88836894 2.18654321]

gradient= [-2.65722503e-04 -5.36829874e-05 3.19405490e-04] w = [-0.07491215 0.88836894 2.18654321] w\_new= [-0.07491481 0.8883684 2.18654641]

gradient= [-2.65349498e-04 -5.36151094e-05 3.18964607e-04] w = [-0.07491481 0.8883684 2.18654641] w\_new= [-0.07491746 0.88836787 2.1865496 ]

gradient= [-2.64977018e-04 -5.35473156e-05 3.18524333e-04] w = [-0.07491746 0.88836787 2.1865496 ] w\_new= [-0.07492011 0.88836733 2.18655278]

gradient= [-2.64605062e-04 -5.34796060e-05 3.18084668e-04] w = [-0.07492011 0.88836733 2.18655278] w\_new= [-0.07492276 0.8883668 2.18655596]

gradient= [-2.64233629e-04 -5.34119805e-05 3.17645609e-04] w = [-0.07492276 0.8883668 2.18655596] w\_new= [-0.0749254 0.88836626 2.18655914]

gradient= [-2.63862719e-04 -5.33444390e-05 3.17207158e-04] w = [-0.0749254 0.88836626 2.18655914] w\_new= [-0.07492804 0.88836573 2.18656231]

gradient= [-2.63492330e-04 -5.32769813e-05 3.16769312e-04] w = [-0.07492804 0.88836573 2.18656231] w\_new= [-0.07493068 0.8883652 2.18656548]

gradient= [-2.63122463e-04 -5.32096075e-05 3.16332070e-04] w = [-0.07493068 0.8883652 2.18656548] w\_new= [-0.07493331 0.88836467 2.18656864]

gradient= [-2.62753116e-04 -5.31423173e-05 3.15895433e-04] w = [-0.07493331 0.88836467 2.18656864] w\_new= [-0.07493594 0.88836413 2.1865718 ]

gradient= [-2.62384288e-04 -5.30751106e-05 3.15459399e-04] w = [-0.07493594 0.88836413 2.1865718 ] w\_new= [-0.07493856 0.8883636 2.18657496]

gradient= [-2.62015980e-04 -5.30079875e-05 3.15023967e-04] w = [-0.07493856 0.8883636 2.18657496] w\_new= [-0.07494118 0.88836307 2.18657811]

gradient= [-2.61648189e-04 -5.29409477e-05 3.14589137e-04] w = [-0.07494118 0.88836307 2.18657811] w\_new= [-0.0749438 0.88836254 2.18658125]

gradient= [-2.61280916e-04 -5.28739912e-05 3.14154907e-04] w = [-0.0749438 0.88836254 2.18658125] w\_new= [-0.07494641 0.88836202 2.18658439]

gradient= [-2.60914160e-04 -5.28071178e-05 3.13721278e-04] w = [-0.07494641 0.88836202 2.18658439] w\_new= [-0.07494902 0.88836149 2.18658753]

gradient= [-2.60547919e-04 -5.27403275e-05 3.13288247e-04] w = [-0.07494902 0.88836149 2.18658753] w\_new= [-0.07495162 0.88836096 2.18659066]

gradient= [-2.60182194e-04 -5.26736202e-05 3.12855814e-04] w = [-0.07495162 0.88836096 2.18659066] w\_new= [-0.07495422 0.88836043 2.18659379]

gradient= [-2.59816983e-04 -5.26069957e-05 3.12423979e-04] w = [-0.07495422 0.88836043 2.18659379] w\_new= [-0.07495682 0.88835991 2.18659692]

gradient= [-2.59452286e-04 -5.25404540e-05 3.11992740e-04] w = [-0.07495682 0.88835991 2.18659692] w\_new= [-0.07495942 0.88835938 2.18660004]

gradient= [-2.59088102e-04 -5.24739950e-05 3.11562097e-04] w = [-0.07495942 0.88835938 2.18660004] w\_new= [-0.07496201 0.88835886 2.18660315]

gradient= [-2.58724430e-04 -5.24076185e-05 3.11132049e-04] w = [-0.07496201 0.88835886 2.18660315] w\_new= [-0.0749646 0.88835833 2.18660626]

gradient= [-2.58361270e-04 -5.23413245e-05 3.10702595e-04] w = [-0.0749646 0.88835833 2.18660626] w\_new= [-0.07496718 0.88835781 2.18660937]

gradient= [-2.57998621e-04 -5.22751129e-05 3.10273734e-04] w = [-0.07496718 0.88835781 2.18660937] w\_new= [-0.07496976 0.88835729 2.18661247]

gradient= [-2.57636482e-04 -5.22089835e-05 3.09845465e-04] w = [-0.07496976 0.88835729 2.18661247] w\_new= [-0.07497234 0.88835676 2.18661557]

gradient= [-2.57274852e-04 -5.21429363e-05 3.09417789e-04] w = [-0.07497234 0.88835676 2.18661557] w\_new= [-0.07497491 0.88835624 2.18661866]

gradient= [-2.56913731e-04 -5.20769711e-05 3.08990702e-04] w = [-0.07497491 0.88835624 2.18661866] w\_new= [-0.07497748 0.88835572 2.18662175]

gradient= [-2.56553118e-04 -5.20110879e-05 3.08564206e-04] w = [-0.07497748 0.88835572 2.18662175] w\_new= [-0.07498004 0.8883552 2.18662484]

gradient= [-2.56193013e-04 -5.19452866e-05 3.08138299e-04] w = [-0.07498004 0.8883552 2.18662484] w\_new= [-0.0749826 0.88835468 2.18662792]

gradient= [-2.55833413e-04 -5.18795670e-05 3.07712980e-04] w = [-0.0749826 0.88835468 2.18662792] w\_new= [-0.07498516 0.88835416 2.186631 ]

gradient= [-2.55474320e-04 -5.18139291e-05 3.07288249e-04] w = [-0.07498516 0.88835416 2.186631 ] w\_new= [-0.07498772 0.88835365 2.18663407]

gradient= [-2.55115732e-04 -5.17483728e-05 3.06864105e-04] w = [-0.07498772 0.88835365 2.18663407] w\_new= [-0.07499027 0.88835313 2.18663714]

gradient= [-2.54757648e-04 -5.16828979e-05 3.06440546e-04] w = [-0.07499027 0.88835313 2.18663714] w\_new= [-0.07499282 0.88835261 2.1866402 ]

gradient= [-2.54400068e-04 -5.16175044e-05 3.06017572e-04] w = [-0.07499282 0.88835261 2.1866402 ] w\_new= [-0.07499536 0.8883521 2.18664327]

gradient= [-2.54042991e-04 -5.15521922e-05 3.05595183e-04] w = [-0.07499536 0.8883521 2.18664327] w\_new= [-0.0749979 0.88835158 2.18664632]

gradient= [-2.53686416e-04 -5.14869611e-05 3.05173377e-04] w = [-0.0749979 0.88835158 2.18664632] w\_new= [-0.07500044 0.88835107 2.18664937]

gradient= [-2.53330343e-04 -5.14218111e-05 3.04752154e-04] w = [-0.07500044 0.88835107 2.18664937] w\_new= [-0.07500297 0.88835055 2.18665242]

gradient= [-2.52974770e-04 -5.13567421e-05 3.04331512e-04] w = [-0.07500297 0.88835055 2.18665242] w\_new= [-0.0750055 0.88835004 2.18665546]

gradient= [-2.52619698e-04 -5.12917539e-05 3.03911452e-04] w = [-0.0750055 0.88835004 2.18665546] w\_new= [-0.07500803 0.88834952 2.1866585 ]

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gradient= [-2.50851814e-04 -5.09680228e-05 3.01819837e-04] w = [-0.0750181 0.88834748 2.18667062] w\_new= [-0.07502061 0.88834697 2.18667364]

gradient= [-2.50499728e-04 -5.09035178e-05 3.01403246e-04] w = [-0.07502061 0.88834697 2.18667364] w\_new= [-0.07502311 0.88834646 2.18667665]

gradient= [-2.50148137e-04 -5.08390931e-05 3.00987230e-04] w = [-0.07502311 0.88834646 2.18667665] w\_new= [-0.07502561 0.88834595 2.18667966]

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gradient= [-2.49446438e-04 -5.07104837e-05 3.00156922e-04] w = [-0.07502811 0.88834544 2.18668267] w\_new= [-0.0750306 0.88834494 2.18668567]

gradient= [-2.49096329e-04 -5.06462989e-05 2.99742628e-04] w = [-0.0750306 0.88834494 2.18668567] w\_new= [-0.0750331 0.88834443 2.18668866]

gradient= [-2.48746712e-04 -5.05821939e-05 2.99328906e-04] w = [-0.0750331 0.88834443 2.18668866] w\_new= [-0.07503558 0.88834393 2.18669166]

gradient= [-2.48397587e-04 -5.05181686e-05 2.98915755e-04] w = [-0.07503558 0.88834393 2.18669166] w\_new= [-0.07503807 0.88834342 2.18669465]

gradient= [-2.48048953e-04 -5.04542229e-05 2.98503176e-04] w = [-0.07503807 0.88834342 2.18669465] w\_new= [-0.07504055 0.88834292 2.18669763]

gradient= [-2.47700809e-04 -5.03903567e-05 2.98091166e-04] w = [-0.07504055 0.88834292 2.18669763] w\_new= [-0.07504302 0.88834241 2.18670061]

gradient= [-2.47353155e-04 -5.03265699e-05 2.97679725e-04] w = [-0.07504302 0.88834241 2.18670061] w\_new= [-0.0750455 0.88834191 2.18670359]

gradient= [-2.47005990e-04 -5.02628625e-05 2.97268852e-04] w = [-0.0750455 0.88834191 2.18670359] w\_new= [-0.07504797 0.88834141 2.18670656]

gradient= [-2.46659313e-04 -5.01992342e-05 2.96858547e-04] w = [-0.07504797 0.88834141 2.18670656] w\_new= [-0.07505043 0.8883409 2.18670953]

gradient= [-2.46313124e-04 -5.01356851e-05 2.96448809e-04] w = [-0.07505043 0.8883409 2.18670953] w\_new= [-0.0750529 0.8883404 2.1867125]

gradient= [-2.45967421e-04 -5.00722150e-05 2.96039637e-04] w = [-0.0750529 0.8883404 2.1867125] w\_new= [-0.07505536 0.8883399 2.18671546]

gradient= [-2.45622205e-04 -5.00088239e-05 2.95631029e-04] w = [-0.07505536 0.8883399 2.18671546] w\_new= [-0.07505781 0.8883394 2.18671841]

gradient= [-2.45277475e-04 -4.99455116e-05 2.95222986e-04] w = [-0.07505781 0.8883394 2.18671841] w\_new= [-0.07506027 0.8883389 2.18672136]

gradient= [-2.44933229e-04 -4.98822780e-05 2.94815507e-04] w = [-0.07506027 0.8883389 2.18672136] w\_new= [-0.07506272 0.8883384 2.18672431]

gradient= [-2.44589468e-04 -4.98191230e-05 2.94408591e-04] w = [-0.07506272 0.8883384 2.18672431] w\_new= [-0.07506516 0.88833791 2.18672726]

gradient= [-2.44246190e-04 -4.97560466e-05 2.94002236e-04] w = [-0.07506516 0.88833791 2.18672726] w\_new= [-0.0750676 0.88833741 2.1867302 ]

gradient= [-2.43903395e-04 -4.96930487e-05 2.93596443e-04] w = [-0.0750676 0.88833741 2.1867302 ] w\_new= [-0.07507004 0.88833691 2.18673313]

gradient= [-2.43561082e-04 -4.96301291e-05 2.93191211e-04] w = [-0.07507004 0.88833691 2.18673313] w\_new= [-0.07507248 0.88833641 2.18673606]

gradient= [-2.43219250e-04 -4.95672878e-05 2.92786538e-04] w = [-0.07507248 0.88833641 2.18673606] w\_new= [-0.07507491 0.88833592 2.18673899]

gradient= [-2.42877899e-04 -4.95045246e-05 2.92382424e-04] w = [-0.07507491 0.88833592 2.18673899] w\_new= [-0.07507734 0.88833542 2.18674192]

gradient= [-2.42537028e-04 -4.94418395e-05 2.91978868e-04] w = [-0.07507734 0.88833542 2.18674192] w\_new= [-0.07507976 0.88833493 2.18674484]

gradient= [-2.42196637e-04 -4.93792324e-05 2.91575869e-04] w = [-0.07507976 0.88833493 2.18674484] w\_new= [-0.07508219 0.88833444 2.18674775]

gradient= [-2.41856724e-04 -4.93167032e-05 2.91173428e-04] w = [-0.07508219 0.88833444 2.18674775] w\_new= [-0.07508461 0.88833394 2.18675066]

gradient= [-2.41517290e-04 -4.92542517e-05 2.90771542e-04] w = [-0.07508461 0.88833394 2.18675066] w\_new= [-0.07508702 0.88833345 2.18675357]

gradient= [-2.41178333e-04 -4.91918780e-05 2.90370211e-04] w = [-0.07508702 0.88833345 2.18675357] w\_new= [-0.07508943 0.88833296 2.18675647]

gradient= [-2.40839852e-04 -4.91295818e-05 2.89969434e-04] w = [-0.07508943 0.88833296 2.18675647] w\_new= [-0.07509184 0.88833247 2.18675937]

gradient= [-2.40501848e-04 -4.90673632e-05 2.89569211e-04] w = [-0.07509184 0.88833247 2.18675937] w\_new= [-0.07509425 0.88833198 2.18676227]

gradient= [-2.40164319e-04 -4.90052219e-05 2.89169541e-04] w = [-0.07509425 0.88833198 2.18676227] w\_new= [-0.07509665 0.88833149 2.18676516]

gradient= [-2.39827264e-04 -4.89431580e-05 2.88770422e-04] w = [-0.07509665 0.88833149 2.18676516] w\_new= [-0.07509905 0.888331 2.18676805]

gradient= [-2.39490684e-04 -4.88811713e-05 2.88371855e-04] w = [-0.07509905 0.888331 2.18676805] w\_new= [-0.07510144 0.88833051 2.18677093]

gradient= [-2.39154577e-04 -4.88192617e-05 2.87973839e-04] w = [-0.07510144 0.88833051 2.18677093] w\_new= [-0.07510383 0.88833002 2.18677381]

gradient= [-2.38818943e-04 -4.87574291e-05 2.87576372e-04] w = [-0.07510383 0.88833002 2.18677381] w\_new= [-0.07510622 0.88832953 2.18677669]

gradient= [-2.38483781e-04 -4.86956735e-05 2.87179454e-04] w = [-0.07510622 0.88832953 2.18677669] w\_new= [-0.0751086 0.88832904 2.18677956]

gradient= [-2.38149090e-04 -4.86339947e-05 2.86783084e-04] w = [-0.0751086 0.88832904 2.18677956] w\_new= [-0.07511099 0.88832856 2.18678243]

gradient= [-2.37814870e-04 -4.85723927e-05 2.86387262e-04] w = [-0.07511099 0.88832856 2.18678243] w\_new= [-0.07511336 0.88832807 2.18678529]

gradient= [-2.37481119e-04 -4.85108673e-05 2.85991987e-04] w = [-0.07511336 0.88832807 2.18678529] w\_new= [-0.07511574 0.88832759 2.18678815]

gradient= [-2.37147839e-04 -4.84494185e-05 2.85597257e-04] w = [-0.07511574 0.88832759 2.18678815] w\_new= [-0.07511811 0.8883271 2.18679101]

gradient= [-2.36815027e-04 -4.83880462e-05 2.85203073e-04] w = [-0.07511811 0.8883271 2.18679101] w\_new= [-0.07512048 0.88832662 2.18679386]

gradient= [-2.36482682e-04 -4.83267502e-05 2.84809433e-04] w = [-0.07512048 0.88832662 2.18679386] w\_new= [-0.07512284 0.88832614 2.18679671]

gradient= [-2.36150806e-04 -4.82655306e-05 2.84416336e-04] w = [-0.07512284 0.88832614 2.18679671] w\_new= [-0.07512521 0.88832565 2.18679955]

gradient= [-2.35819396e-04 -4.82043871e-05 2.84023783e-04] w = [-0.07512521 0.88832565 2.18679955] w\_new= [-0.07512756 0.88832517 2.18680239]

gradient= [-2.35488452e-04 -4.81433197e-05 2.83631772e-04] w = [-0.07512756 0.88832517 2.18680239] w\_new= [-0.07512992 0.88832469 2.18680523]

gradient= [-2.35157974e-04 -4.80823284e-05 2.83240302e-04] w = [-0.07512992 0.88832469 2.18680523] w\_new= [-0.07513227 0.88832421 2.18680806]

gradient= [-2.34827960e-04 -4.80214129e-05 2.82849373e-04] w = [-0.07513227 0.88832421 2.18680806] w\_new= [-0.07513462 0.88832373 2.18681089]

gradient= [-2.34498410e-04 -4.79605733e-05 2.82458983e-04] w = [-0.07513462 0.88832373 2.18681089] w\_new= [-0.07513696 0.88832325 2.18681371]

gradient= [-2.34169324e-04 -4.78998094e-05 2.82069133e-04] w = [-0.07513696 0.88832325 2.18681371] w\_new= [-0.07513931 0.88832277 2.18681653]

gradient= [-2.33840701e-04 -4.78391211e-05 2.81679822e-04] w = [-0.07513931 0.88832277 2.18681653] w\_new= [-0.07514164 0.88832229 2.18681935]

gradient= [-2.33512539e-04 -4.77785084e-05 2.81291048e-04] w = [-0.07514164 0.88832229 2.18681935] w\_new= [-0.07514398 0.88832181 2.18682216]

gradient= [-2.33184840e-04 -4.77179711e-05 2.80902811e-04] w = [-0.07514398 0.88832181 2.18682216] w\_new= [-0.07514631 0.88832134 2.18682497]

gradient= [-2.32857601e-04 -4.76575092e-05 2.80515110e-04] w = [-0.07514631 0.88832134 2.18682497] w\_new= [-0.07514864 0.88832086 2.18682778]

gradient= [-2.32530822e-04 -4.75971226e-05 2.80127945e-04] w = [-0.07514864 0.88832086 2.18682778] w\_new= [-0.07515096 0.88832038 2.18683058]

gradient= [-2.32204503e-04 -4.75368111e-05 2.79741314e-04] w = [-0.07515096 0.88832038 2.18683058] w\_new= [-0.07515329 0.88831991 2.18683338]

gradient= [-2.31878642e-04 -4.74765748e-05 2.79355217e-04] w = [-0.07515329 0.88831991 2.18683338] w\_new= [-0.07515561 0.88831943 2.18683617]

gradient= [-2.31553240e-04 -4.74164134e-05 2.78969654e-04] w = [-0.07515561 0.88831943 2.18683617] w\_new= [-0.07515792 0.88831896 2.18683896]

gradient= [-2.31228296e-04 -4.73563269e-05 2.78584623e-04] w = [-0.07515792 0.88831896 2.18683896] w\_new= [-0.07516023 0.88831849 2.18684175]

gradient= [-2.30903808e-04 -4.72963153e-05 2.78200124e-04] w = [-0.07516023 0.88831849 2.18684175] w\_new= [-0.07516254 0.88831801 2.18684453]

gradient= [-2.30579777e-04 -4.72363783e-05 2.77816155e-04] w = [-0.07516254 0.88831801 2.18684453] w\_new= [-0.07516485 0.88831754 2.18684731]

gradient= [-2.30256201e-04 -4.71765160e-05 2.77432717e-04] w = [-0.07516485 0.88831754 2.18684731] w\_new= [-0.07516715 0.88831707 2.18685008]

gradient= [-2.29933081e-04 -4.71167283e-05 2.77049809e-04] w = [-0.07516715 0.88831707 2.18685008] w\_new= [-0.07516945 0.8883166 2.18685285]

gradient= [-2.29610415e-04 -4.70570150e-05 2.76667430e-04] w = [-0.07516945 0.8883166 2.18685285] w\_new= [-0.07517175 0.88831613 2.18685562]

gradient= [-2.29288202e-04 -4.69973760e-05 2.76285578e-04] w = [-0.07517175 0.88831613 2.18685562] w\_new= [-0.07517404 0.88831566 2.18685838]

gradient= [-2.28966443e-04 -4.69378113e-05 2.75904254e-04] w = [-0.07517404 0.88831566 2.18685838] w\_new= [-0.07517633 0.88831519 2.18686114]

gradient= [-2.28645136e-04 -4.68783208e-05 2.75523457e-04] w = [-0.07517633 0.88831519 2.18686114] w\_new= [-0.07517861 0.88831472 2.1868639 ]

gradient= [-2.28324281e-04 -4.68189044e-05 2.75143185e-04] w = [-0.07517861 0.88831472 2.1868639 ] w\_new= [-0.0751809 0.88831425 2.18686665]

gradient= [-2.28003877e-04 -4.67595620e-05 2.74763439e-04] w = [-0.0751809 0.88831425 2.18686665] w\_new= [-0.07518318 0.88831378 2.18686939]

gradient= [-2.27683923e-04 -4.67002935e-05 2.74384217e-04] w = [-0.07518318 0.88831378 2.18686939] w\_new= [-0.07518545 0.88831332 2.18687214]

gradient= [-2.27364420e-04 -4.66410987e-05 2.74005519e-04] w = [-0.07518545 0.88831332 2.18687214] w\_new= [-0.07518773 0.88831285 2.18687488]

gradient= [-2.27045366e-04 -4.65819778e-05 2.73627344e-04] w = [-0.07518773 0.88831285 2.18687488] w\_new= [-0.07519 0.88831238 2.18687761]

gradient= [-2.26726760e-04 -4.65229304e-05 2.73249691e-04] w = [-0.07519 0.88831238 2.18687761] w\_new= [-0.07519227 0.88831192 2.18688035]

gradient= [-2.26408603e-04 -4.64639566e-05 2.72872559e-04] w = [-0.07519227 0.88831192 2.18688035] w\_new= [-0.07519453 0.88831145 2.18688308]

gradient= [-2.26090892e-04 -4.64050563e-05 2.72495949e-04] w = [-0.07519453 0.88831145 2.18688308] w\_new= [-0.07519679 0.88831099 2.1868858 ]

gradient= [-2.25773629e-04 -4.63462293e-05 2.72119858e-04] w = [-0.07519679 0.88831099 2.1868858 ] w\_new= [-0.07519905 0.88831053 2.18688852]

gradient= [-2.25456812e-04 -4.62874757e-05 2.71744287e-04] w = [-0.07519905 0.88831053 2.18688852] w\_new= [-0.0752013 0.88831006 2.18689124]

gradient= [-2.25140440e-04 -4.62287952e-05 2.71369235e-04] w = [-0.0752013 0.88831006 2.18689124] w\_new= [-0.07520355 0.8883096 2.18689395]

gradient= [-2.24824513e-04 -4.61701878e-05 2.70994701e-04] w = [-0.07520355 0.8883096 2.18689395] w\_new= [-0.0752058 0.88830914 2.18689666]

gradient= [-2.24509030e-04 -4.61116534e-05 2.70620683e-04] w = [-0.0752058 0.88830914 2.18689666] w\_new= [-0.07520805 0.88830868 2.18689937]

gradient= [-2.24193991e-04 -4.60531919e-05 2.70247183e-04] w = [-0.07520805 0.88830868 2.18689937] w\_new= [-0.07521029 0.88830822 2.18690207]

gradient= [-2.23879395e-04 -4.59948033e-05 2.69874198e-04] w = [-0.07521029 0.88830822 2.18690207] w\_new= [-0.07521253 0.88830776 2.18690477]

gradient= [-2.23565241e-04 -4.59364874e-05 2.69501728e-04] w = [-0.07521253 0.88830776 2.18690477] w\_new= [-0.07521476 0.8883073 2.18690747]

gradient= [-2.23251529e-04 -4.58782442e-05 2.69129773e-04] w = [-0.07521476 0.8883073 2.18690747] w\_new= [-0.075217 0.88830684 2.18691016]

gradient= [-2.22938258e-04 -4.58200735e-05 2.68758331e-04] w = [-0.075217 0.88830684 2.18691016] w\_new= [-0.07521923 0.88830638 2.18691284]

gradient= [-2.22625427e-04 -4.57619753e-05 2.68387403e-04] w = [-0.07521923 0.88830638 2.18691284] w\_new= [-0.07522145 0.88830592 2.18691553]

gradient= [-2.22313037e-04 -4.57039495e-05 2.68016986e-04] w = [-0.07522145 0.88830592 2.18691553] w\_new= [-0.07522368 0.88830547 2.18691821]

gradient= [-2.22001085e-04 -4.56459960e-05 2.67647081e-04] w = [-0.07522368 0.88830547 2.18691821] w\_new= [-0.0752259 0.88830501 2.18692088]

gradient= [-2.21689572e-04 -4.55881147e-05 2.67277687e-04] w = [-0.0752259 0.88830501 2.18692088] w\_new= [-0.07522811 0.88830456 2.18692356]

gradient= [-2.21378498e-04 -4.55303056e-05 2.66908803e-04] w = [-0.07522811 0.88830456 2.18692356] w\_new= [-0.07523033 0.8883041 2.18692623]

gradient= [-2.21067860e-04 -4.54725685e-05 2.66540429e-04] w = [-0.07523033 0.8883041 2.18692623] w\_new= [-0.07523254 0.88830365 2.18692889]

gradient= [-2.20757659e-04 -4.54149033e-05 2.66172563e-04] w = [-0.07523254 0.88830365 2.18692889] w\_new= [-0.07523474 0.88830319 2.18693155]

gradient= [-2.20447895e-04 -4.53573100e-05 2.65805205e-04] w = [-0.07523474 0.88830319 2.18693155] w\_new= [-0.07523695 0.88830274 2.18693421]

gradient= [-2.20138566e-04 -4.52997885e-05 2.65438355e-04] w = [-0.07523695 0.88830274 2.18693421] w\_new= [-0.07523915 0.88830228 2.18693687]

gradient= [-2.19829672e-04 -4.52423386e-05 2.65072011e-04] w = [-0.07523915 0.88830228 2.18693687] w\_new= [-0.07524135 0.88830183 2.18693952]

gradient= [-2.19521212e-04 -4.51849604e-05 2.64706173e-04] w = [-0.07524135 0.88830183 2.18693952] w\_new= [-0.07524354 0.88830138 2.18694216]

gradient= [-2.19213186e-04 -4.51276537e-05 2.64340840e-04] w = [-0.07524354 0.88830138 2.18694216] w\_new= [-0.07524574 0.88830093 2.18694481]

gradient= [-2.18905593e-04 -4.50704184e-05 2.63976012e-04] w = [-0.07524574 0.88830093 2.18694481] w\_new= [-0.07524793 0.88830048 2.18694745]

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gradient= [-2.18291704e-04 -4.49561617e-05 2.63247866e-04] w = [-0.07525011 0.88830003 2.18695008] w\_new= [-0.07525229 0.88829958 2.18695272]

gradient= [-2.17985407e-04 -4.48991402e-05 2.62884547e-04] w = [-0.07525229 0.88829958 2.18695272] w\_new= [-0.07525447 0.88829913 2.18695534]

gradient= [-2.17679540e-04 -4.48421897e-05 2.62521730e-04] w = [-0.07525447 0.88829913 2.18695534] w\_new= [-0.07525665 0.88829868 2.18695797]

gradient= [-2.17374104e-04 -4.47853102e-05 2.62159414e-04] w = [-0.07525665 0.88829868 2.18695797] w\_new= [-0.07525882 0.88829823 2.18696059]

gradient= [-2.17069097e-04 -4.47285017e-05 2.61797598e-04] w = [-0.07525882 0.88829823 2.18696059] w\_new= [-0.075261 0.88829779 2.18696321]

gradient= [-2.16764518e-04 -4.46717639e-05 2.61436282e-04] w = [-0.075261 0.88829779 2.18696321] w\_new= [-0.07526316 0.88829734 2.18696582]

gradient= [-2.16460368e-04 -4.46150969e-05 2.61075465e-04] w = [-0.07526316 0.88829734 2.18696582] w\_new= [-0.07526533 0.88829689 2.18696843]

gradient= [-2.16156645e-04 -4.45585005e-05 2.60715146e-04] w = [-0.07526533 0.88829689 2.18696843] w\_new= [-0.07526749 0.88829645 2.18697104]

gradient= [-2.15853350e-04 -4.45019747e-05 2.60355325e-04] w = [-0.07526749 0.88829645 2.18697104] w\_new= [-0.07526965 0.888296 2.18697365]

gradient= [-2.15550481e-04 -4.44455194e-05 2.59996000e-04] w = [-0.07526965 0.888296 2.18697365] w\_new= [-0.0752718 0.88829556 2.18697625]

gradient= [-2.15248038e-04 -4.43891344e-05 2.59637172e-04] w = [-0.0752718 0.88829556 2.18697625] w\_new= [-0.07527396 0.88829511 2.18697884]

gradient= [-2.14946020e-04 -4.43328197e-05 2.59278839e-04] w = [-0.07527396 0.88829511 2.18697884] w\_new= [-0.07527611 0.88829467 2.18698143]

gradient= [-2.14644426e-04 -4.42765753e-05 2.58921001e-04] w = [-0.07527611 0.88829467 2.18698143] w\_new= [-0.07527825 0.88829423 2.18698402]

gradient= [-2.14343257e-04 -4.42204010e-05 2.58563658e-04] w = [-0.07527825 0.88829423 2.18698402] w\_new= [-0.0752804 0.88829379 2.18698661]

gradient= [-2.14042511e-04 -4.41642967e-05 2.58206807e-04] w = [-0.0752804 0.88829379 2.18698661] w\_new= [-0.07528254 0.88829334 2.18698919]

gradient= [-2.13742188e-04 -4.41082624e-05 2.57850450e-04] w = [-0.07528254 0.88829334 2.18698919] w\_new= [-0.07528467 0.8882929 2.18699177]

gradient= [-2.13442287e-04 -4.40522980e-05 2.57494585e-04] w = [-0.07528467 0.8882929 2.18699177] w\_new= [-0.07528681 0.88829246 2.18699434]

gradient= [-2.13142807e-04 -4.39964034e-05 2.57139211e-04] w = [-0.07528681 0.88829246 2.18699434] w\_new= [-0.07528894 0.88829202 2.18699692]

gradient= [-2.12843749e-04 -4.39405784e-05 2.56784327e-04] w = [-0.07528894 0.88829202 2.18699692] w\_new= [-0.07529107 0.88829158 2.18699948]

gradient= [-2.12545111e-04 -4.38848231e-05 2.56429934e-04] w = [-0.07529107 0.88829158 2.18699948] w\_new= [-0.07529319 0.88829114 2.18700205]

gradient= [-2.12246893e-04 -4.38291373e-05 2.56076030e-04] w = [-0.07529319 0.88829114 2.18700205] w\_new= [-0.07529532 0.88829071 2.18700461]

gradient= [-2.11949094e-04 -4.37735210e-05 2.55722615e-04] w = [-0.07529532 0.88829071 2.18700461] w\_new= [-0.07529743 0.88829027 2.18700717]

gradient= [-2.11651714e-04 -4.37179740e-05 2.55369688e-04] w = [-0.07529743 0.88829027 2.18700717] w\_new= [-0.07529955 0.88828983 2.18700972]

gradient= [-2.11354752e-04 -4.36624963e-05 2.55017249e-04] w = [-0.07529955 0.88828983 2.18700972] w\_new= [-0.07530166 0.88828939 2.18701227]

gradient= [-2.11058208e-04 -4.36070878e-05 2.54665296e-04] w = [-0.07530166 0.88828939 2.18701227] w\_new= [-0.07530378 0.88828896 2.18701482]

gradient= [-2.10762080e-04 -4.35517484e-05 2.54313829e-04] w = [-0.07530378 0.88828896 2.18701482] w\_new= [-0.07530588 0.88828852 2.18701736]

gradient= [-2.10466369e-04 -4.34964781e-05 2.53962847e-04] w = [-0.07530588 0.88828852 2.18701736] w\_new= [-0.07530799 0.88828809 2.1870199 ]

gradient= [-2.10171073e-04 -4.34412766e-05 2.53612350e-04] w = [-0.07530799 0.88828809 2.1870199 ] w\_new= [-0.07531009 0.88828765 2.18702244]

gradient= [-2.09876193e-04 -4.33861441e-05 2.53262337e-04] w = [-0.07531009 0.88828765 2.18702244] w\_new= [-0.07531219 0.88828722 2.18702497]

gradient= [-2.09581727e-04 -4.33310803e-05 2.52912807e-04] w = [-0.07531219 0.88828722 2.18702497] w\_new= [-0.07531428 0.88828679 2.1870275 ]

gradient= [-2.09287675e-04 -4.32760852e-05 2.52563760e-04] w = [-0.07531428 0.88828679 2.1870275 ] w\_new= [-0.07531638 0.88828635 2.18703002]

gradient= [-2.08994036e-04 -4.32211587e-05 2.52215195e-04] w = [-0.07531638 0.88828635 2.18703002] w\_new= [-0.07531847 0.88828592 2.18703255]

gradient= [-2.08700811e-04 -4.31663007e-05 2.51867111e-04] w = [-0.07531847 0.88828592 2.18703255] w\_new= [-0.07532055 0.88828549 2.18703506]

gradient= [-2.08407997e-04 -4.31115112e-05 2.51519508e-04] w = [-0.07532055 0.88828549 2.18703506] w\_new= [-0.07532264 0.88828506 2.18703758]

gradient= [-2.08115595e-04 -4.30567900e-05 2.51172385e-04] w = [-0.07532264 0.88828506 2.18703758] w\_new= [-0.07532472 0.88828463 2.18704009]

gradient= [-2.07823604e-04 -4.30021371e-05 2.50825742e-04] w = [-0.07532472 0.88828463 2.18704009] w\_new= [-0.0753268 0.8882842 2.1870426]

gradient= [-2.07532024e-04 -4.29475524e-05 2.50479576e-04] w = [-0.0753268 0.8882842 2.1870426] w\_new= [-0.07532887 0.88828377 2.1870451 ]

gradient= [-2.07240854e-04 -4.28930357e-05 2.50133889e-04] w = [-0.07532887 0.88828377 2.1870451 ] w\_new= [-0.07533094 0.88828334 2.18704761]

gradient= [-2.06950093e-04 -4.28385871e-05 2.49788680e-04] w = [-0.07533094 0.88828334 2.18704761] w\_new= [-0.07533301 0.88828291 2.1870501 ]

gradient= [-2.06659740e-04 -4.27842065e-05 2.49443947e-04] w = [-0.07533301 0.88828291 2.1870501 ] w\_new= [-0.07533508 0.88828248 2.1870526 ]

gradient= [-2.06369796e-04 -4.27298937e-05 2.49099690e-04] w = [-0.07533508 0.88828248 2.1870526 ] w\_new= [-0.07533714 0.88828206 2.18705509]

gradient= [-2.06080259e-04 -4.26756486e-05 2.48755908e-04] w = [-0.07533714 0.88828206 2.18705509] w\_new= [-0.07533921 0.88828163 2.18705758]

gradient= [-2.05791130e-04 -4.26214713e-05 2.48412601e-04] w = [-0.07533921 0.88828163 2.18705758] w\_new= [-0.07534126 0.8882812 2.18706006]

gradient= [-2.05502407e-04 -4.25673616e-05 2.48069768e-04] w = [-0.07534126 0.8882812 2.18706006] w\_new= [-0.07534332 0.88828078 2.18706254]

gradient= [-2.05214089e-04 -4.25133194e-05 2.47727409e-04] w = [-0.07534332 0.88828078 2.18706254] w\_new= [-0.07534537 0.88828035 2.18706502]

gradient= [-2.04926177e-04 -4.24593446e-05 2.47385522e-04] w = [-0.07534537 0.88828035 2.18706502] w\_new= [-0.07534742 0.88827993 2.18706749]

gradient= [-2.04638670e-04 -4.24054372e-05 2.47044107e-04] w = [-0.07534742 0.88827993 2.18706749] w\_new= [-0.07534947 0.8882795 2.18706996]

gradient= [-2.04351567e-04 -4.23515971e-05 2.46703164e-04] w = [-0.07534947 0.8882795 2.18706996] w\_new= [-0.07535151 0.88827908 2.18707243]

gradient= [-2.04064867e-04 -4.22978241e-05 2.46362692e-04] w = [-0.07535151 0.88827908 2.18707243] w\_new= [-0.07535355 0.88827866 2.18707489]

gradient= [-2.03778571e-04 -4.22441183e-05 2.46022689e-04] w = [-0.07535355 0.88827866 2.18707489] w\_new= [-0.07535559 0.88827823 2.18707735]

gradient= [-2.03492677e-04 -4.21904795e-05 2.45683156e-04] w = [-0.07535559 0.88827823 2.18707735] w\_new= [-0.07535762 0.88827781 2.18707981]

gradient= [-2.03207185e-04 -4.21369077e-05 2.45344092e-04] w = [-0.07535762 0.88827781 2.18707981] w\_new= [-0.07535966 0.88827739 2.18708226]

gradient= [-2.02922094e-04 -4.20834027e-05 2.45005497e-04] w = [-0.07535966 0.88827739 2.18708226] w\_new= [-0.07536168 0.88827697 2.18708471]

gradient= [-2.02637404e-04 -4.20299645e-05 2.44667368e-04] w = [-0.07536168 0.88827697 2.18708471] w\_new= [-0.07536371 0.88827655 2.18708716]

gradient= [-2.02353114e-04 -4.19765931e-05 2.44329707e-04] w = [-0.07536371 0.88827655 2.18708716] w\_new= [-0.07536573 0.88827613 2.1870896 ]

gradient= [-2.02069224e-04 -4.19232882e-05 2.43992512e-04] w = [-0.07536573 0.88827613 2.1870896 ] w\_new= [-0.07536775 0.88827571 2.18709204]

gradient= [-2.01785732e-04 -4.18700499e-05 2.43655782e-04] w = [-0.07536775 0.88827571 2.18709204] w\_new= [-0.07536977 0.88827529 2.18709448]

gradient= [-2.01502640e-04 -4.18168780e-05 2.43319518e-04] w = [-0.07536977 0.88827529 2.18709448] w\_new= [-0.07537179 0.88827487 2.18709691]

gradient= [-2.01219945e-04 -4.17637726e-05 2.42983718e-04] w = [-0.07537179 0.88827487 2.18709691] w\_new= [-0.0753738 0.88827446 2.18709934]

gradient= [-2.00937648e-04 -4.17107334e-05 2.42648381e-04] w = [-0.0753738 0.88827446 2.18709934] w\_new= [-0.07537581 0.88827404 2.18710177]

gradient= [-2.00655747e-04 -4.16577604e-05 2.42313507e-04] w = [-0.07537581 0.88827404 2.18710177] w\_new= [-0.07537782 0.88827362 2.18710419]

gradient= [-2.00374243e-04 -4.16048536e-05 2.41979096e-04] w = [-0.07537782 0.88827362 2.18710419] w\_new= [-0.07537982 0.88827321 2.18710661]

gradient= [-2.00093134e-04 -4.15520128e-05 2.41645147e-04] w = [-0.07537982 0.88827321 2.18710661] w\_new= [-0.07538182 0.88827279 2.18710903]

gradient= [-1.99812420e-04 -4.14992380e-05 2.41311658e-04] w = [-0.07538182 0.88827279 2.18710903] w\_new= [-0.07538382 0.88827238 2.18711144]

gradient= [-1.99532102e-04 -4.14465291e-05 2.40978631e-04] w = [-0.07538382 0.88827238 2.18711144] w\_new= [-0.07538581 0.88827196 2.18711385]

gradient= [-1.99252177e-04 -4.13938861e-05 2.40646063e-04] w = [-0.07538581 0.88827196 2.18711385] w\_new= [-0.07538781 0.88827155 2.18711626]

gradient= [-1.98972645e-04 -4.13413087e-05 2.40313954e-04] w = [-0.07538781 0.88827155 2.18711626] w\_new= [-0.0753898 0.88827113 2.18711866]

gradient= [-1.98693507e-04 -4.12887970e-05 2.39982304e-04] w = [-0.0753898 0.88827113 2.18711866] w\_new= [-0.07539178 0.88827072 2.18712106]

gradient= [-1.98414761e-04 -4.12363509e-05 2.39651111e-04] w = [-0.07539178 0.88827072 2.18712106] w\_new= [-0.07539377 0.88827031 2.18712346]

gradient= [-1.98136406e-04 -4.11839702e-05 2.39320376e-04] w = [-0.07539377 0.88827031 2.18712346] w\_new= [-0.07539575 0.8882699 2.18712585]

gradient= [-1.97858443e-04 -4.11316550e-05 2.38990098e-04] w = [-0.07539575 0.8882699 2.18712585] w\_new= [-0.07539773 0.88826949 2.18712824]

gradient= [-1.97580871e-04 -4.10794051e-05 2.38660276e-04] w = [-0.07539773 0.88826949 2.18712824] w\_new= [-0.0753997 0.88826908 2.18713063]

gradient= [-1.97303688e-04 -4.10272205e-05 2.38330909e-04] w = [-0.0753997 0.88826908 2.18713063] w\_new= [-0.07540168 0.88826867 2.18713301]

gradient= [-1.97026896e-04 -4.09751010e-05 2.38001997e-04] w = [-0.07540168 0.88826867 2.18713301] w\_new= [-0.07540365 0.88826826 2.18713539]

gradient= [-1.96750492e-04 -4.09230467e-05 2.37673539e-04] w = [-0.07540365 0.88826826 2.18713539] w\_new= [-0.07540561 0.88826785 2.18713777]

gradient= [-1.96474477e-04 -4.08710573e-05 2.37345535e-04] w = [-0.07540561 0.88826785 2.18713777] w\_new= [-0.07540758 0.88826744 2.18714014]

gradient= [-1.96198850e-04 -4.08191329e-05 2.37017983e-04] w = [-0.07540758 0.88826744 2.18714014] w\_new= [-0.07540954 0.88826703 2.18714251]

gradient= [-1.95923610e-04 -4.07672733e-05 2.36690884e-04] w = [-0.07540954 0.88826703 2.18714251] w\_new= [-0.0754115 0.88826662 2.18714488]

gradient= [-1.95648758e-04 -4.07154785e-05 2.36364236e-04] w = [-0.0754115 0.88826662 2.18714488] w\_new= [-0.07541346 0.88826621 2.18714724]

gradient= [-1.95374291e-04 -4.06637484e-05 2.36038039e-04] w = [-0.07541346 0.88826621 2.18714724] w\_new= [-0.07541541 0.88826581 2.1871496 ]

gradient= [-1.95100210e-04 -4.06120829e-05 2.35712293e-04] w = [-0.07541541 0.88826581 2.1871496 ] w\_new= [-0.07541736 0.8882654 2.18715196]

gradient= [-1.94826515e-04 -4.05604820e-05 2.35386997e-04] w = [-0.07541736 0.8882654 2.18715196] w\_new= [-0.07541931 0.888265 2.18715431]

gradient= [-1.94553204e-04 -4.05089455e-05 2.35062150e-04] w = [-0.07541931 0.888265 2.18715431] w\_new= [-0.07542126 0.88826459 2.18715666]

gradient= [-1.94280277e-04 -4.04574734e-05 2.34737751e-04] w = [-0.07542126 0.88826459 2.18715666] w\_new= [-0.0754232 0.88826419 2.18715901]

gradient= [-1.94007734e-04 -4.04060656e-05 2.34413800e-04] w = [-0.0754232 0.88826419 2.18715901] w\_new= [-0.07542514 0.88826378 2.18716136]

gradient= [-1.93735574e-04 -4.03547220e-05 2.34090296e-04] w = [-0.07542514 0.88826378 2.18716136] w\_new= [-0.07542708 0.88826338 2.1871637 ]

gradient= [-1.93463797e-04 -4.03034426e-05 2.33767240e-04] w = [-0.07542708 0.88826338 2.1871637 ] w\_new= [-0.07542901 0.88826298 2.18716603]

gradient= [-1.93192401e-04 -4.02522272e-05 2.33444629e-04] w = [-0.07542901 0.88826298 2.18716603] w\_new= [-0.07543094 0.88826257 2.18716837]

gradient= [-1.92921387e-04 -4.02010759e-05 2.33122463e-04] w = [-0.07543094 0.88826257 2.18716837] w\_new= [-0.07543287 0.88826217 2.1871707 ]

gradient= [-1.92650754e-04 -4.01499884e-05 2.32800743e-04] w = [-0.07543287 0.88826217 2.1871707 ] w\_new= [-0.0754348 0.88826177 2.18717303]

gradient= [-1.92380502e-04 -4.00989648e-05 2.32479466e-04] w = [-0.0754348 0.88826177 2.18717303] w\_new= [-0.07543672 0.88826137 2.18717535]

gradient= [-1.92110629e-04 -4.00480049e-05 2.32158634e-04] w = [-0.07543672 0.88826137 2.18717535] w\_new= [-0.07543864 0.88826097 2.18717767]

gradient= [-1.91841135e-04 -3.99971087e-05 2.31838244e-04] w = [-0.07543864 0.88826097 2.18717767] w\_new= [-0.07544056 0.88826057 2.18717999]

gradient= [-1.91572020e-04 -3.99462761e-05 2.31518296e-04] w = [-0.07544056 0.88826057 2.18717999] w\_new= [-0.07544248 0.88826017 2.18718231]

gradient= [-1.91303284e-04 -3.98955070e-05 2.31198791e-04] w = [-0.07544248 0.88826017 2.18718231] w\_new= [-0.07544439 0.88825977 2.18718462]

gradient= [-1.91034925e-04 -3.98448013e-05 2.30879726e-04] w = [-0.07544439 0.88825977 2.18718462] w\_new= [-0.0754463 0.88825937 2.18718693]

gradient= [-1.90766943e-04 -3.97941590e-05 2.30561102e-04] w = [-0.0754463 0.88825937 2.18718693] w\_new= [-0.07544821 0.88825897 2.18718923]

gradient= [-1.90499338e-04 -3.97435800e-05 2.30242918e-04] w = [-0.07544821 0.88825897 2.18718923] w\_new= [-0.07545011 0.88825858 2.18719154]

gradient= [-1.90232109e-04 -3.96930643e-05 2.29925173e-04] w = [-0.07545011 0.88825858 2.18719154] w\_new= [-0.07545201 0.88825818 2.18719384]

gradient= [-1.89965256e-04 -3.96426116e-05 2.29607867e-04] w = [-0.07545201 0.88825818 2.18719384] w\_new= [-0.07545391 0.88825778 2.18719613]

gradient= [-1.89698777e-04 -3.95922220e-05 2.29290999e-04] w = [-0.07545391 0.88825778 2.18719613] w\_new= [-0.07545581 0.88825739 2.18719842]

gradient= [-1.89432673e-04 -3.95418954e-05 2.28974569e-04] w = [-0.07545581 0.88825739 2.18719842] w\_new= [-0.07545771 0.88825699 2.18720071]

gradient= [-1.89166944e-04 -3.94916317e-05 2.28658575e-04] w = [-0.07545771 0.88825699 2.18720071] w\_new= [-0.0754596 0.8882566 2.187203 ]

gradient= [-1.88901587e-04 -3.94414308e-05 2.28343018e-04] w = [-0.0754596 0.8882566 2.187203 ] w\_new= [-0.07546149 0.8882562 2.18720528]

gradient= [-1.88636604e-04 -3.93912926e-05 2.28027896e-04] w = [-0.07546149 0.8882562 2.18720528] w\_new= [-0.07546337 0.88825581 2.18720756]

gradient= [-1.88371993e-04 -3.93412171e-05 2.27713210e-04] w = [-0.07546337 0.88825581 2.18720756] w\_new= [-0.07546526 0.88825541 2.18720984]

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gradient= [-1.87843886e-04 -3.92412539e-05 2.27085140e-04] w = [-0.07546714 0.88825502 2.18721212] w\_new= [-0.07546902 0.88825463 2.18721439]

gradient= [-1.87580389e-04 -3.91913659e-05 2.26771755e-04] w = [-0.07546902 0.88825463 2.18721439] w\_new= [-0.07547089 0.88825424 2.18721665]

gradient= [-1.87317262e-04 -3.91415404e-05 2.26458803e-04] w = [-0.07547089 0.88825424 2.18721665] w\_new= [-0.07547277 0.88825385 2.18721892]

gradient= [-1.87054505e-04 -3.90917771e-05 2.26146282e-04] w = [-0.07547277 0.88825385 2.18721892] w\_new= [-0.07547464 0.88825346 2.18722118]

gradient= [-1.86792118e-04 -3.90420760e-05 2.25834194e-04] w = [-0.07547464 0.88825346 2.18722118] w\_new= [-0.0754765 0.88825306 2.18722344]

gradient= [-1.86530099e-04 -3.89924371e-05 2.25522536e-04] w = [-0.0754765 0.88825306 2.18722344] w\_new= [-0.07547837 0.88825267 2.18722569]

gradient= [-1.86268448e-04 -3.89428602e-05 2.25211309e-04] w = [-0.07547837 0.88825267 2.18722569] w\_new= [-0.07548023 0.88825229 2.18722795]

gradient= [-1.86007166e-04 -3.88933453e-05 2.24900511e-04] w = [-0.07548023 0.88825229 2.18722795] w\_new= [-0.07548209 0.8882519 2.1872302 ]

gradient= [-1.85746250e-04 -3.88438924e-05 2.24590142e-04] w = [-0.07548209 0.8882519 2.1872302 ] w\_new= [-0.07548395 0.88825151 2.18723244]

gradient= [-1.85485701e-04 -3.87945012e-05 2.24280202e-04] w = [-0.07548395 0.88825151 2.18723244] w\_new= [-0.0754858 0.88825112 2.18723468]

gradient= [-1.85225518e-04 -3.87451718e-05 2.23970690e-04] w = [-0.0754858 0.88825112 2.18723468] w\_new= [-0.07548766 0.88825073 2.18723692]

gradient= [-1.84965701e-04 -3.86959041e-05 2.23661605e-04] w = [-0.07548766 0.88825073 2.18723692] w\_new= [-0.07548951 0.88825035 2.18723916]

gradient= [-1.84706249e-04 -3.86466980e-05 2.23352947e-04] w = [-0.07548951 0.88825035 2.18723916] w\_new= [-0.07549135 0.88824996 2.18724139]

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gradient= [-1.84188438e-04 -3.85484703e-05 2.22736909e-04] w = [-0.0754932 0.88824957 2.18724362] w\_new= [-0.07549504 0.88824919 2.18724585]

gradient= [-1.83930079e-04 -3.84994485e-05 2.22429527e-04] w = [-0.07549504 0.88824919 2.18724585] w\_new= [-0.07549688 0.8882488 2.18724808]

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gradient= [-1.83414448e-04 -3.84015889e-05 2.21816037e-04] w = [-0.07549872 0.88824842 2.1872503 ] w\_new= [-0.07550055 0.88824803 2.18725252]

gradient= [-1.83157176e-04 -3.83527508e-05 2.21509927e-04] w = [-0.07550055 0.88824803 2.18725252] w\_new= [-0.07550238 0.88824765 2.18725473]

gradient= [-1.82900265e-04 -3.83039739e-05 2.21204239e-04] w = [-0.07550238 0.88824765 2.18725473] w\_new= [-0.07550421 0.88824727 2.18725694]

gradient= [-1.82643716e-04 -3.82552579e-05 2.20898974e-04] w = [-0.07550421 0.88824727 2.18725694] w\_new= [-0.07550604 0.88824689 2.18725915]

gradient= [-1.82387527e-04 -3.82066028e-05 2.20594130e-04] w = [-0.07550604 0.88824689 2.18725915] w\_new= [-0.07550786 0.8882465 2.18726136]

gradient= [-1.82131698e-04 -3.81580086e-05 2.20289707e-04] w = [-0.07550786 0.8882465 2.18726136] w\_new= [-0.07550968 0.88824612 2.18726356]

gradient= [-1.81876229e-04 -3.81094752e-05 2.19985704e-04] w = [-0.07550968 0.88824612 2.18726356] w\_new= [-0.0755115 0.88824574 2.18726576]

gradient= [-1.81621119e-04 -3.80610025e-05 2.19682121e-04] w = [-0.0755115 0.88824574 2.18726576] w\_new= [-0.07551332 0.88824536 2.18726796]

gradient= [-1.81366367e-04 -3.80125905e-05 2.19378957e-04] w = [-0.07551332 0.88824536 2.18726796] w\_new= [-0.07551513 0.88824498 2.18727015]

gradient= [-1.81111973e-04 -3.79642389e-05 2.19076212e-04] w = [-0.07551513 0.88824498 2.18727015] w\_new= [-0.07551694 0.8882446 2.18727234]

gradient= [-1.80857936e-04 -3.79159479e-05 2.18773884e-04] w = [-0.07551694 0.8882446 2.18727234] w\_new= [-0.07551875 0.88824422 2.18727453]

gradient= [-1.80604257e-04 -3.78677173e-05 2.18471974e-04] w = [-0.07551875 0.88824422 2.18727453] w\_new= [-0.07552056 0.88824384 2.18727671]

gradient= [-1.80350934e-04 -3.78195470e-05 2.18170481e-04] w = [-0.07552056 0.88824384 2.18727671] w\_new= [-0.07552236 0.88824346 2.1872789 ]

gradient= [-1.80097967e-04 -3.77714370e-05 2.17869404e-04] w = [-0.07552236 0.88824346 2.1872789 ] w\_new= [-0.07552416 0.88824309 2.18728107]

gradient= [-1.79845356e-04 -3.77233871e-05 2.17568743e-04] w = [-0.07552416 0.88824309 2.18728107] w\_new= [-0.07552596 0.88824271 2.18728325]

gradient= [-1.79593099e-04 -3.76753974e-05 2.17268497e-04] w = [-0.07552596 0.88824271 2.18728325] w\_new= [-0.07552775 0.88824233 2.18728542]

gradient= [-1.79341197e-04 -3.76274677e-05 2.16968665e-04] w = [-0.07552775 0.88824233 2.18728542] w\_new= [-0.07552955 0.88824196 2.18728759]

gradient= [-1.79089649e-04 -3.75795980e-05 2.16669247e-04] w = [-0.07552955 0.88824196 2.18728759] w\_new= [-0.07553134 0.88824158 2.18728976]

gradient= [-1.78838455e-04 -3.75317882e-05 2.16370243e-04] w = [-0.07553134 0.88824158 2.18728976] w\_new= [-0.07553313 0.8882412 2.18729192]

gradient= [-1.78587613e-04 -3.74840382e-05 2.16071652e-04] w = [-0.07553313 0.8882412 2.18729192] w\_new= [-0.07553491 0.88824083 2.18729408]

gradient= [-1.78337124e-04 -3.74363479e-05 2.15773472e-04] w = [-0.07553491 0.88824083 2.18729408] w\_new= [-0.0755367 0.88824046 2.18729624]

gradient= [-1.78086987e-04 -3.73887173e-05 2.15475705e-04] w = [-0.0755367 0.88824046 2.18729624] w\_new= [-0.07553848 0.88824008 2.1872984 ]

gradient= [-1.77837202e-04 -3.73411463e-05 2.15178348e-04] w = [-0.07553848 0.88824008 2.1872984 ] w\_new= [-0.07554026 0.88823971 2.18730055]

gradient= [-1.77587767e-04 -3.72936349e-05 2.14881402e-04] w = [-0.07554026 0.88823971 2.18730055] w\_new= [-0.07554203 0.88823934 2.1873027 ]

gradient= [-1.77338683e-04 -3.72461829e-05 2.14584866e-04] w = [-0.07554203 0.88823934 2.1873027 ] w\_new= [-0.07554381 0.88823896 2.18730484]

gradient= [-1.77089949e-04 -3.71987903e-05 2.14288739e-04] w = [-0.07554381 0.88823896 2.18730484] w\_new= [-0.07554558 0.88823859 2.18730699]

gradient= [-1.76841565e-04 -3.71514569e-05 2.13993021e-04] w = [-0.07554558 0.88823859 2.18730699] w\_new= [-0.07554734 0.88823822 2.18730913]

gradient= [-1.76593529e-04 -3.71041829e-05 2.13697712e-04] w = [-0.07554734 0.88823822 2.18730913] w\_new= [-0.07554911 0.88823785 2.18731126]

gradient= [-1.76345842e-04 -3.70569679e-05 2.13402810e-04] w = [-0.07554911 0.88823785 2.18731126] w\_new= [-0.07555087 0.88823748 2.1873134 ]

gradient= [-1.76098503e-04 -3.70098121e-05 2.13108315e-04] w = [-0.07555087 0.88823748 2.1873134 ] w\_new= [-0.07555264 0.88823711 2.18731553]

gradient= [-1.75851512e-04 -3.69627153e-05 2.12814227e-04] w = [-0.07555264 0.88823711 2.18731553] w\_new= [-0.07555439 0.88823674 2.18731766]

gradient= [-1.75604867e-04 -3.69156775e-05 2.12520545e-04] w = [-0.07555439 0.88823674 2.18731766] w\_new= [-0.07555615 0.88823637 2.18731978]

gradient= [-1.75358570e-04 -3.68686985e-05 2.12227268e-04] w = [-0.07555615 0.88823637 2.18731978] w\_new= [-0.0755579 0.888236 2.1873219]

gradient= [-1.75112618e-04 -3.68217783e-05 2.11934396e-04] w = [-0.0755579 0.888236 2.1873219] w\_new= [-0.07555965 0.88823563 2.18732402]

gradient= [-1.74867012e-04 -3.67749168e-05 2.11641929e-04] w = [-0.07555965 0.88823563 2.18732402] w\_new= [-0.0755614 0.88823526 2.18732614]

gradient= [-1.74621751e-04 -3.67281140e-05 2.11349865e-04] w = [-0.0755614 0.88823526 2.18732614] w\_new= [-0.07556315 0.8882349 2.18732825]

gradient= [-1.74376835e-04 -3.66813698e-05 2.11058204e-04] w = [-0.07556315 0.8882349 2.18732825] w\_new= [-0.07556489 0.88823453 2.18733036]

gradient= [-1.74132262e-04 -3.66346841e-05 2.10766947e-04] w = [-0.07556489 0.88823453 2.18733036] w\_new= [-0.07556663 0.88823416 2.18733247]

gradient= [-1.73888034e-04 -3.65880569e-05 2.10476091e-04] w = [-0.07556663 0.88823416 2.18733247] w\_new= [-0.07556837 0.8882338 2.18733458]

gradient= [-1.73644149e-04 -3.65414880e-05 2.10185637e-04] w = [-0.07556837 0.8882338 2.18733458] w\_new= [-0.07557011 0.88823343 2.18733668]

gradient= [-1.73400606e-04 -3.64949774e-05 2.09895583e-04] w = [-0.07557011 0.88823343 2.18733668] w\_new= [-0.07557184 0.88823307 2.18733878]

gradient= [-1.73157405e-04 -3.64485250e-05 2.09605930e-04] w = [-0.07557184 0.88823307 2.18733878] w\_new= [-0.07557358 0.8882327 2.18734087]

gradient= [-1.72914547e-04 -3.64021308e-05 2.09316678e-04] w = [-0.07557358 0.8882327 2.18734087] w\_new= [-0.0755753 0.88823234 2.18734297]

gradient= [-1.72672029e-04 -3.63557947e-05 2.09027824e-04] w = [-0.0755753 0.88823234 2.18734297] w\_new= [-0.07557703 0.88823198 2.18734506]

gradient= [-1.72429852e-04 -3.63095166e-05 2.08739369e-04] w = [-0.07557703 0.88823198 2.18734506] w\_new= [-0.07557876 0.88823161 2.18734714]

gradient= [-1.72188016e-04 -3.62632964e-05 2.08451312e-04] w = [-0.07557876 0.88823161 2.18734714] w\_new= [-0.07558048 0.88823125 2.18734923]

gradient= [-1.71946519e-04 -3.62171342e-05 2.08163653e-04] w = [-0.07558048 0.88823125 2.18734923] w\_new= [-0.0755822 0.88823089 2.18735131]

gradient= [-1.71705362e-04 -3.61710297e-05 2.07876392e-04] w = [-0.0755822 0.88823089 2.18735131] w\_new= [-0.07558391 0.88823053 2.18735339]

gradient= [-1.71464543e-04 -3.61249829e-05 2.07589526e-04] w = [-0.07558391 0.88823053 2.18735339] w\_new= [-0.07558563 0.88823016 2.18735546]

gradient= [-1.71224063e-04 -3.60789938e-05 2.07303057e-04] w = [-0.07558563 0.88823016 2.18735546] w\_new= [-0.07558734 0.8882298 2.18735754]

gradient= [-1.70983921e-04 -3.60330623e-05 2.07016983e-04] w = [-0.07558734 0.8882298 2.18735754] w\_new= [-0.07558905 0.88822944 2.18735961]

gradient= [-1.70744116e-04 -3.59871883e-05 2.06731305e-04] w = [-0.07558905 0.88822944 2.18735961] w\_new= [-0.07559076 0.88822908 2.18736167]

gradient= [-1.70504648e-04 -3.59413717e-05 2.06446020e-04] w = [-0.07559076 0.88822908 2.18736167] w\_new= [-0.07559246 0.88822872 2.18736374]

gradient= [-1.70265517e-04 -3.58956126e-05 2.06161129e-04] w = [-0.07559246 0.88822872 2.18736374] w\_new= [-0.07559417 0.88822837 2.1873658 ]

gradient= [-1.70026721e-04 -3.58499107e-05 2.05876632e-04] w = [-0.07559417 0.88822837 2.1873658 ] w\_new= [-0.07559587 0.88822801 2.18736786]

gradient= [-1.69788262e-04 -3.58042661e-05 2.05592528e-04] w = [-0.07559587 0.88822801 2.18736786] w\_new= [-0.07559756 0.88822765 2.18736991]

gradient= [-1.69550137e-04 -3.57586786e-05 2.05308815e-04] w = [-0.07559756 0.88822765 2.18736991] w\_new= [-0.07559926 0.88822729 2.18737197]

gradient= [-1.69312346e-04 -3.57131482e-05 2.05025495e-04] w = [-0.07559926 0.88822729 2.18737197] w\_new= [-0.07560095 0.88822693 2.18737402]

gradient= [-1.69074890e-04 -3.56676749e-05 2.04742565e-04] w = [-0.07560095 0.88822693 2.18737402] w\_new= [-0.07560264 0.88822658 2.18737607]

gradient= [-1.68837768e-04 -3.56222585e-05 2.04460026e-04] w = [-0.07560264 0.88822658 2.18737607] w\_new= [-0.07560433 0.88822622 2.18737811]

gradient= [-1.68600978e-04 -3.55768990e-05 2.04177877e-04] w = [-0.07560433 0.88822622 2.18737811] w\_new= [-0.07560602 0.88822587 2.18738015]

gradient= [-1.68364521e-04 -3.55315963e-05 2.03896118e-04] w = [-0.07560602 0.88822587 2.18738015] w\_new= [-0.0756077 0.88822551 2.18738219]

gradient= [-1.68128397e-04 -3.54863504e-05 2.03614747e-04] w = [-0.0756077 0.88822551 2.18738219] w\_new= [-0.07560938 0.88822516 2.18738423]

gradient= [-1.67892604e-04 -3.54411611e-05 2.03333765e-04] w = [-0.07560938 0.88822516 2.18738423] w\_new= [-0.07561106 0.8882248 2.18738626]

gradient= [-1.67657143e-04 -3.53960285e-05 2.03053171e-04] w = [-0.07561106 0.8882248 2.18738626] w\_new= [-0.07561274 0.88822445 2.18738829]

gradient= [-1.67422012e-04 -3.53509523e-05 2.02772964e-04] w = [-0.07561274 0.88822445 2.18738829] w\_new= [-0.07561441 0.88822409 2.18739032]

gradient= [-1.67187212e-04 -3.53059327e-05 2.02493144e-04] w = [-0.07561441 0.88822409 2.18739032] w\_new= [-0.07561608 0.88822374 2.18739234]

gradient= [-1.66952741e-04 -3.52609694e-05 2.02213711e-04] w = [-0.07561608 0.88822374 2.18739234] w\_new= [-0.07561775 0.88822339 2.18739437]

gradient= [-1.66718600e-04 -3.52160625e-05 2.01934663e-04] w = [-0.07561775 0.88822339 2.18739437] w\_new= [-0.07561942 0.88822304 2.18739639]

gradient= [-1.66484788e-04 -3.51712119e-05 2.01656000e-04] w = [-0.07561942 0.88822304 2.18739639] w\_new= [-0.07562109 0.88822268 2.1873984 ]

gradient= [-1.66251305e-04 -3.51264174e-05 2.01377722e-04] w = [-0.07562109 0.88822268 2.1873984 ] w\_new= [-0.07562275 0.88822233 2.18740042]

gradient= [-1.66018149e-04 -3.50816790e-05 2.01099828e-04] w = [-0.07562275 0.88822233 2.18740042] w\_new= [-0.07562441 0.88822198 2.18740243]

gradient= [-1.65785322e-04 -3.50369968e-05 2.00822318e-04] w = [-0.07562441 0.88822198 2.18740243] w\_new= [-0.07562607 0.88822163 2.18740443]

gradient= [-1.65552821e-04 -3.49923704e-05 2.00545191e-04] w = [-0.07562607 0.88822163 2.18740443] w\_new= [-0.07562772 0.88822128 2.18740644]

gradient= [-1.65320647e-04 -3.49478001e-05 2.00268447e-04] w = [-0.07562772 0.88822128 2.18740644] w\_new= [-0.07562937 0.88822093 2.18740844]

gradient= [-1.65088799e-04 -3.49032855e-05 1.99992084e-04] w = [-0.07562937 0.88822093 2.18740844] w\_new= [-0.07563103 0.88822058 2.18741044]

gradient= [-1.64857276e-04 -3.48588268e-05 1.99716103e-04] w = [-0.07563103 0.88822058 2.18741044] w\_new= [-0.07563267 0.88822023 2.18741244]

gradient= [-1.64626079e-04 -3.48144237e-05 1.99440503e-04] w = [-0.07563267 0.88822023 2.18741244] w\_new= [-0.07563432 0.88821989 2.18741443]

gradient= [-1.64395207e-04 -3.47700763e-05 1.99165284e-04] w = [-0.07563432 0.88821989 2.18741443] w\_new= [-0.07563596 0.88821954 2.18741643]

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gradient= [-1.63934436e-04 -3.46815481e-05 1.98615984e-04] w = [-0.07563761 0.88821919 2.18741841] w\_new= [-0.07563925 0.88821884 2.1874204 ]

gradient= [-1.63704535e-04 -3.46373672e-05 1.98341902e-04] w = [-0.07563925 0.88821884 2.1874204 ] w\_new= [-0.07564088 0.8882185 2.18742238]

gradient= [-1.63474958e-04 -3.45932417e-05 1.98068199e-04] w = [-0.07564088 0.8882185 2.18742238] w\_new= [-0.07564252 0.88821815 2.18742437]

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gradient= [-1.63016770e-04 -3.45051565e-05 1.97521927e-04] w = [-0.07564415 0.88821781 2.18742634] w\_new= [-0.07564578 0.88821746 2.18742832]

gradient= [-1.62788159e-04 -3.44611967e-05 1.97249355e-04] w = [-0.07564578 0.88821746 2.18742832] w\_new= [-0.07564741 0.88821712 2.18743029]

gradient= [-1.62559869e-04 -3.44172920e-05 1.96977161e-04] w = [-0.07564741 0.88821712 2.18743029] w\_new= [-0.07564903 0.88821677 2.18743226]

gradient= [-1.62331899e-04 -3.43734423e-05 1.96705342e-04] w = [-0.07564903 0.88821677 2.18743226] w\_new= [-0.07565066 0.88821643 2.18743423]

gradient= [-1.62104250e-04 -3.43296475e-05 1.96433898e-04] w = [-0.07565066 0.88821643 2.18743423] w\_new= [-0.07565228 0.88821609 2.18743619]

gradient= [-1.61876921e-04 -3.42859077e-05 1.96162829e-04] w = [-0.07565228 0.88821609 2.18743619] w\_new= [-0.0756539 0.88821574 2.18743815]

gradient= [-1.61649911e-04 -3.42422227e-05 1.95892134e-04] w = [-0.0756539 0.88821574 2.18743815] w\_new= [-0.07565551 0.8882154 2.18744011]

gradient= [-1.61423220e-04 -3.41985924e-05 1.95621813e-04] w = [-0.07565551 0.8882154 2.18744011] w\_new= [-0.07565713 0.88821506 2.18744207]

gradient= [-1.61196848e-04 -3.41550169e-05 1.95351865e-04] w = [-0.07565713 0.88821506 2.18744207] w\_new= [-0.07565874 0.88821472 2.18744402]

gradient= [-1.60970793e-04 -3.41114960e-05 1.95082289e-04] w = [-0.07565874 0.88821472 2.18744402] w\_new= [-0.07566035 0.88821438 2.18744597]

gradient= [-1.60745057e-04 -3.40680296e-05 1.94813086e-04] w = [-0.07566035 0.88821438 2.18744597] w\_new= [-0.07566196 0.88821404 2.18744792]

gradient= [-1.60519637e-04 -3.40246177e-05 1.94544254e-04] w = [-0.07566196 0.88821404 2.18744792] w\_new= [-0.07566356 0.88821369 2.18744987]

gradient= [-1.60294534e-04 -3.39812603e-05 1.94275794e-04] w = [-0.07566356 0.88821369 2.18744987] w\_new= [-0.07566516 0.88821336 2.18745181]

gradient= [-1.60069747e-04 -3.39379572e-05 1.94007704e-04] w = [-0.07566516 0.88821336 2.18745181] w\_new= [-0.07566677 0.88821302 2.18745375]

gradient= [-1.59845276e-04 -3.38947084e-05 1.93739984e-04] w = [-0.07566677 0.88821302 2.18745375] w\_new= [-0.07566836 0.88821268 2.18745569]

gradient= [-1.59621120e-04 -3.38515138e-05 1.93472634e-04] w = [-0.07566836 0.88821268 2.18745569] w\_new= [-0.07566996 0.88821234 2.18745762]

gradient= [-1.59397279e-04 -3.38083734e-05 1.93205653e-04] w = [-0.07566996 0.88821234 2.18745762] w\_new= [-0.07567155 0.888212 2.18745955]

gradient= [-1.59173753e-04 -3.37652871e-05 1.92939040e-04] w = [-0.07567155 0.888212 2.18745955] w\_new= [-0.07567315 0.88821166 2.18746148]

gradient= [-1.58950540e-04 -3.37222548e-05 1.92672795e-04] w = [-0.07567315 0.88821166 2.18746148] w\_new= [-0.07567474 0.88821133 2.18746341]

gradient= [-1.58727642e-04 -3.36792765e-05 1.92406918e-04] w = [-0.07567474 0.88821133 2.18746341] w\_new= [-0.07567632 0.88821099 2.18746533]

gradient= [-1.58505056e-04 -3.36363520e-05 1.92141408e-04] w = [-0.07567632 0.88821099 2.18746533] w\_new= [-0.07567791 0.88821065 2.18746726]

gradient= [-1.58282783e-04 -3.35934814e-05 1.91876264e-04] w = [-0.07567791 0.88821065 2.18746726] w\_new= [-0.07567949 0.88821032 2.18746917]

gradient= [-1.58060822e-04 -3.35506646e-05 1.91611487e-04] w = [-0.07567949 0.88821032 2.18746917] w\_new= [-0.07568107 0.88820998 2.18747109]

gradient= [-1.57839173e-04 -3.35079014e-05 1.91347075e-04] w = [-0.07568107 0.88820998 2.18747109] w\_new= [-0.07568265 0.88820965 2.187473 ]

gradient= [-1.57617836e-04 -3.34651919e-05 1.91083028e-04] w = [-0.07568265 0.88820965 2.187473 ] w\_new= [-0.07568423 0.88820931 2.18747491]

gradient= [-1.57396809e-04 -3.34225359e-05 1.90819345e-04] w = [-0.07568423 0.88820931 2.18747491] w\_new= [-0.0756858 0.88820898 2.18747682]

gradient= [-1.57176093e-04 -3.33799334e-05 1.90556026e-04] w = [-0.0756858 0.88820898 2.18747682] w\_new= [-0.07568737 0.88820864 2.18747873]

gradient= [-1.56955687e-04 -3.33373844e-05 1.90293071e-04] w = [-0.07568737 0.88820864 2.18747873] w\_new= [-0.07568894 0.88820831 2.18748063]

gradient= [-1.56735590e-04 -3.32948887e-05 1.90030479e-04] w = [-0.07568894 0.88820831 2.18748063] w\_new= [-0.07569051 0.88820798 2.18748253]

gradient= [-1.56515803e-04 -3.32524463e-05 1.89768250e-04] w = [-0.07569051 0.88820798 2.18748253] w\_new= [-0.07569207 0.88820764 2.18748443]

gradient= [-1.56296325e-04 -3.32100572e-05 1.89506382e-04] w = [-0.07569207 0.88820764 2.18748443] w\_new= [-0.07569364 0.88820731 2.18748632]

gradient= [-1.56077154e-04 -3.31677212e-05 1.89244876e-04] w = [-0.07569364 0.88820731 2.18748632] w\_new= [-0.0756952 0.88820698 2.18748822]

gradient= [-1.55858292e-04 -3.31254384e-05 1.88983730e-04] w = [-0.0756952 0.88820698 2.18748822] w\_new= [-0.07569676 0.88820665 2.18749011]

gradient= [-1.55639737e-04 -3.30832085e-05 1.88722946e-04] w = [-0.07569676 0.88820665 2.18749011] w\_new= [-0.07569831 0.88820632 2.18749199]

gradient= [-1.55421489e-04 -3.30410317e-05 1.88462521e-04] w = [-0.07569831 0.88820632 2.18749199] w\_new= [-0.07569987 0.88820599 2.18749388]

gradient= [-1.55203548e-04 -3.29989077e-05 1.88202456e-04] w = [-0.07569987 0.88820599 2.18749388] w\_new= [-0.07570142 0.88820566 2.18749576]

gradient= [-1.54985913e-04 -3.29568366e-05 1.87942749e-04] w = [-0.07570142 0.88820566 2.18749576] w\_new= [-0.07570297 0.88820533 2.18749764]

gradient= [-1.54768583e-04 -3.29148183e-05 1.87683402e-04] w = [-0.07570297 0.88820533 2.18749764] w\_new= [-0.07570452 0.888205 2.18749952]

gradient= [-1.54551559e-04 -3.28728527e-05 1.87424412e-04] w = [-0.07570452 0.888205 2.18749952] w\_new= [-0.07570606 0.88820467 2.18750139]

gradient= [-1.54334840e-04 -3.28309397e-05 1.87165780e-04] w = [-0.07570606 0.88820467 2.18750139] w\_new= [-0.0757076 0.88820434 2.18750326]

gradient= [-1.54118425e-04 -3.27890794e-05 1.86907504e-04] w = [-0.0757076 0.88820434 2.18750326] w\_new= [-0.07570915 0.88820401 2.18750513]

gradient= [-1.53902314e-04 -3.27472715e-05 1.86649586e-04] w = [-0.07570915 0.88820401 2.18750513] w\_new= [-0.07571068 0.88820369 2.187507 ]

gradient= [-1.53686507e-04 -3.27055161e-05 1.86392023e-04] w = [-0.07571068 0.88820369 2.187507 ] w\_new= [-0.07571222 0.88820336 2.18750886]

gradient= [-1.53471003e-04 -3.26638131e-05 1.86134816e-04] w = [-0.07571222 0.88820336 2.18750886] w\_new= [-0.07571376 0.88820303 2.18751072]

gradient= [-1.53255801e-04 -3.26221624e-05 1.85877964e-04] w = [-0.07571376 0.88820303 2.18751072] w\_new= [-0.07571529 0.88820271 2.18751258]

gradient= [-1.53040902e-04 -3.25805640e-05 1.85621466e-04] w = [-0.07571529 0.88820271 2.18751258] w\_new= [-0.07571682 0.88820238 2.18751444]

gradient= [-1.52826305e-04 -3.25390177e-05 1.85365322e-04] w = [-0.07571682 0.88820238 2.18751444] w\_new= [-0.07571835 0.88820206 2.18751629]

gradient= [-1.52612009e-04 -3.24975236e-05 1.85109532e-04] w = [-0.07571835 0.88820206 2.18751629] w\_new= [-0.07571987 0.88820173 2.18751814]

gradient= [-1.52398014e-04 -3.24560816e-05 1.84854096e-04] w = [-0.07571987 0.88820173 2.18751814] w\_new= [-0.0757214 0.88820141 2.18751999]

gradient= [-1.52184320e-04 -3.24146916e-05 1.84599011e-04] w = [-0.0757214 0.88820141 2.18751999] w\_new= [-0.07572292 0.88820108 2.18752184]

gradient= [-1.51970926e-04 -3.23733535e-05 1.84344279e-04] w = [-0.07572292 0.88820108 2.18752184] w\_new= [-0.07572444 0.88820076 2.18752368]

gradient= [-1.51757831e-04 -3.23320673e-05 1.84089898e-04] w = [-0.07572444 0.88820076 2.18752368] w\_new= [-0.07572596 0.88820043 2.18752552]

gradient= [-1.51545036e-04 -3.22908329e-05 1.83835869e-04] w = [-0.07572596 0.88820043 2.18752552] w\_new= [-0.07572747 0.88820011 2.18752736]

gradient= [-1.51332540e-04 -3.22496503e-05 1.83582190e-04] w = [-0.07572747 0.88820011 2.18752736] w\_new= [-0.07572899 0.88819979 2.1875292 ]

gradient= [-1.51120342e-04 -3.22085193e-05 1.83328862e-04] w = [-0.07572899 0.88819979 2.1875292 ] w\_new= [-0.0757305 0.88819947 2.18753103]

gradient= [-1.50908443e-04 -3.21674400e-05 1.83075883e-04] w = [-0.0757305 0.88819947 2.18753103] w\_new= [-0.07573201 0.88819915 2.18753286]

gradient= [-1.50696841e-04 -3.21264122e-05 1.82823253e-04] w = [-0.07573201 0.88819915 2.18753286] w\_new= [-0.07573351 0.88819882 2.18753469]

gradient= [-1.50485536e-04 -3.20854360e-05 1.82570972e-04] w = [-0.07573351 0.88819882 2.18753469] w\_new= [-0.07573502 0.8881985 2.18753651]

gradient= [-1.50274528e-04 -3.20445111e-05 1.82319039e-04] w = [-0.07573502 0.8881985 2.18753651] w\_new= [-0.07573652 0.88819818 2.18753834]

gradient= [-1.50063817e-04 -3.20036376e-05 1.82067454e-04] w = [-0.07573652 0.88819818 2.18753834] w\_new= [-0.07573802 0.88819786 2.18754016]

gradient= [-1.49853401e-04 -3.19628155e-05 1.81816216e-04] w = [-0.07573802 0.88819786 2.18754016] w\_new= [-0.07573952 0.88819754 2.18754198]

gradient= [-1.49643281e-04 -3.19220445e-05 1.81565325e-04] w = [-0.07573952 0.88819754 2.18754198] w\_new= [-0.07574102 0.88819722 2.18754379]

gradient= [-1.49433456e-04 -3.18813248e-05 1.81314781e-04] w = [-0.07574102 0.88819722 2.18754379] w\_new= [-0.07574251 0.88819691 2.18754561]

gradient= [-1.49223926e-04 -3.18406562e-05 1.81064582e-04] w = [-0.07574251 0.88819691 2.18754561] w\_new= [-0.075744 0.88819659 2.18754742]

gradient= [-1.49014690e-04 -3.18000386e-05 1.80814729e-04] w = [-0.075744 0.88819659 2.18754742] w\_new= [-0.07574549 0.88819627 2.18754922]

gradient= [-1.48805748e-04 -3.17594720e-05 1.80565220e-04] w = [-0.07574549 0.88819627 2.18754922] w\_new= [-0.07574698 0.88819595 2.18755103]

gradient= [-1.48597099e-04 -3.17189563e-05 1.80316056e-04] w = [-0.07574698 0.88819595 2.18755103] w\_new= [-0.07574847 0.88819563 2.18755283]

gradient= [-1.48388744e-04 -3.16784916e-05 1.80067236e-04] w = [-0.07574847 0.88819563 2.18755283] w\_new= [-0.07574995 0.88819532 2.18755463]

gradient= [-1.48180681e-04 -3.16380776e-05 1.79818759e-04] w = [-0.07574995 0.88819532 2.18755463] w\_new= [-0.07575143 0.888195 2.18755643]

gradient= [-1.47972911e-04 -3.15977143e-05 1.79570625e-04] w = [-0.07575143 0.888195 2.18755643] w\_new= [-0.07575291 0.88819469 2.18755823]

gradient= [-1.47765432e-04 -3.15574018e-05 1.79322834e-04] w = [-0.07575291 0.88819469 2.18755823] w\_new= [-0.07575439 0.88819437 2.18756002]

gradient= [-1.47558245e-04 -3.15171398e-05 1.79075384e-04] w = [-0.07575439 0.88819437 2.18756002] w\_new= [-0.07575587 0.88819405 2.18756181]

gradient= [-1.47351348e-04 -3.14769284e-05 1.78828277e-04] w = [-0.07575587 0.88819405 2.18756181] w\_new= [-0.07575734 0.88819374 2.1875636 ]

gradient= [-1.47144743e-04 -3.14367675e-05 1.78581510e-04] w = [-0.07575734 0.88819374 2.1875636 ] w\_new= [-0.07575881 0.88819343 2.18756539]

gradient= [-1.46938427e-04 -3.13966570e-05 1.78335084e-04] w = [-0.07575881 0.88819343 2.18756539] w\_new= [-0.07576028 0.88819311 2.18756717]

gradient= [-1.46732401e-04 -3.13565969e-05 1.78088998e-04] w = [-0.07576028 0.88819311 2.18756717] w\_new= [-0.07576175 0.8881928 2.18756895]

gradient= [-1.46526665e-04 -3.13165871e-05 1.77843252e-04] w = [-0.07576175 0.8881928 2.18756895] w\_new= [-0.07576321 0.88819248 2.18757073]

gradient= [-1.46321218e-04 -3.12766275e-05 1.77597845e-04] w = [-0.07576321 0.88819248 2.18757073] w\_new= [-0.07576468 0.88819217 2.1875725 ]

gradient= [-1.46116059e-04 -3.12367182e-05 1.77352777e-04] w = [-0.07576468 0.88819217 2.1875725 ] w\_new= [-0.07576614 0.88819186 2.18757428]

gradient= [-1.45911188e-04 -3.11968589e-05 1.77108047e-04] w = [-0.07576614 0.88819186 2.18757428] w\_new= [-0.0757676 0.88819155 2.18757605]

gradient= [-1.45706605e-04 -3.11570497e-05 1.76863655e-04] w = [-0.0757676 0.88819155 2.18757605] w\_new= [-0.07576905 0.88819124 2.18757782]

gradient= [-1.45502309e-04 -3.11172905e-05 1.76619600e-04] w = [-0.07576905 0.88819124 2.18757782] w\_new= [-0.07577051 0.88819092 2.18757958]

gradient= [-1.45298301e-04 -3.10775812e-05 1.76375882e-04] w = [-0.07577051 0.88819092 2.18757958] w\_new= [-0.07577196 0.88819061 2.18758135]

gradient= [-1.45094578e-04 -3.10379218e-05 1.76132500e-04] w = [-0.07577196 0.88819061 2.18758135] w\_new= [-0.07577341 0.8881903 2.18758311]

gradient= [-1.44891142e-04 -3.09983122e-05 1.75889455e-04] w = [-0.07577341 0.8881903 2.18758311] w\_new= [-0.07577486 0.88818999 2.18758487]

gradient= [-1.44687992e-04 -3.09587524e-05 1.75646745e-04] w = [-0.07577486 0.88818999 2.18758487] w\_new= [-0.07577631 0.88818968 2.18758662]

gradient= [-1.44485127e-04 -3.09192423e-05 1.75404369e-04] w = [-0.07577631 0.88818968 2.18758662] w\_new= [-0.07577775 0.88818937 2.18758838]

gradient= [-1.44282547e-04 -3.08797817e-05 1.75162329e-04] w = [-0.07577775 0.88818937 2.18758838] w\_new= [-0.0757792 0.88818907 2.18759013]

gradient= [-1.44080252e-04 -3.08403708e-05 1.74920622e-04] w = [-0.0757792 0.88818907 2.18759013] w\_new= [-0.07578064 0.88818876 2.18759188]

gradient= [-1.43878240e-04 -3.08010093e-05 1.74679249e-04] w = [-0.07578064 0.88818876 2.18759188] w\_new= [-0.07578208 0.88818845 2.18759363]

gradient= [-1.43676512e-04 -3.07616974e-05 1.74438210e-04] w = [-0.07578208 0.88818845 2.18759363] w\_new= [-0.07578351 0.88818814 2.18759537]

gradient= [-1.43475068e-04 -3.07224347e-05 1.74197503e-04] w = [-0.07578351 0.88818814 2.18759537] w\_new= [-0.07578495 0.88818783 2.18759711]

gradient= [-1.43273906e-04 -3.06832214e-05 1.73957128e-04] w = [-0.07578495 0.88818783 2.18759711] w\_new= [-0.07578638 0.88818753 2.18759885]

gradient= [-1.43073028e-04 -3.06440574e-05 1.73717085e-04] w = [-0.07578638 0.88818753 2.18759885] w\_new= [-0.07578781 0.88818722 2.18760059]

gradient= [-1.42872431e-04 -3.06049426e-05 1.73477373e-04] w = [-0.07578781 0.88818722 2.18760059] w\_new= [-0.07578924 0.88818692 2.18760232]

gradient= [-1.42672116e-04 -3.05658769e-05 1.73237993e-04] w = [-0.07578924 0.88818692 2.18760232] w\_new= [-0.07579067 0.88818661 2.18760406]

gradient= [-1.42472082e-04 -3.05268603e-05 1.72998942e-04] w = [-0.07579067 0.88818661 2.18760406] w\_new= [-0.07579209 0.8881863 2.18760579]

gradient= [-1.42272329e-04 -3.04878927e-05 1.72760222e-04] w = [-0.07579209 0.8881863 2.18760579] w\_new= [-0.07579351 0.888186 2.18760751]

gradient= [-1.42072857e-04 -3.04489741e-05 1.72521831e-04] w = [-0.07579351 0.888186 2.18760751] w\_new= [-0.07579493 0.8881857 2.18760924]

gradient= [-1.41873665e-04 -3.04101044e-05 1.72283769e-04] w = [-0.07579493 0.8881857 2.18760924] w\_new= [-0.07579635 0.88818539 2.18761096]

gradient= [-1.41674752e-04 -3.03712835e-05 1.72046036e-04] w = [-0.07579635 0.88818539 2.18761096] w\_new= [-0.07579777 0.88818509 2.18761268]

gradient= [-1.41476119e-04 -3.03325114e-05 1.71808631e-04] w = [-0.07579777 0.88818509 2.18761268] w\_new= [-0.07579918 0.88818478 2.1876144 ]

gradient= [-1.41277765e-04 -3.02937880e-05 1.71571553e-04] w = [-0.07579918 0.88818478 2.1876144 ] w\_new= [-0.0758006 0.88818448 2.18761612]

gradient= [-1.41079689e-04 -3.02551133e-05 1.71334803e-04] w = [-0.0758006 0.88818448 2.18761612] w\_new= [-0.07580201 0.88818418 2.18761783]

gradient= [-1.40881892e-04 -3.02164872e-05 1.71098379e-04] w = [-0.07580201 0.88818418 2.18761783] w\_new= [-0.07580342 0.88818388 2.18761954]

gradient= [-1.40684373e-04 -3.01779096e-05 1.70862282e-04] w = [-0.07580342 0.88818388 2.18761954] w\_new= [-0.07580482 0.88818357 2.18762125]

gradient= [-1.40487130e-04 -3.01393805e-05 1.70626511e-04] w = [-0.07580482 0.88818357 2.18762125] w\_new= [-0.07580623 0.88818327 2.18762295]

gradient= [-1.40290165e-04 -3.01008998e-05 1.70391065e-04] w = [-0.07580623 0.88818327 2.18762295] w\_new= [-0.07580763 0.88818297 2.18762466]

gradient= [-1.40093477e-04 -3.00624675e-05 1.70155944e-04] w = [-0.07580763 0.88818297 2.18762466] w\_new= [-0.07580903 0.88818267 2.18762636]

gradient= [-1.39897064e-04 -3.00240835e-05 1.69921148e-04] w = [-0.07580903 0.88818267 2.18762636] w\_new= [-0.07581043 0.88818237 2.18762806]

gradient= [-1.39700928e-04 -2.99857477e-05 1.69686676e-04] w = [-0.07581043 0.88818237 2.18762806] w\_new= [-0.07581183 0.88818207 2.18762976]

gradient= [-1.39505067e-04 -2.99474601e-05 1.69452527e-04] w = [-0.07581183 0.88818207 2.18762976] w\_new= [-0.07581322 0.88818177 2.18763145]

gradient= [-1.39309481e-04 -2.99092207e-05 1.69218702e-04] w = [-0.07581322 0.88818177 2.18763145] w\_new= [-0.07581462 0.88818147 2.18763314]

gradient= [-1.39114170e-04 -2.98710293e-05 1.68985199e-04] w = [-0.07581462 0.88818147 2.18763314] w\_new= [-0.07581601 0.88818117 2.18763483]

gradient= [-1.38919133e-04 -2.98328859e-05 1.68752019e-04] w = [-0.07581601 0.88818117 2.18763483] w\_new= [-0.0758174 0.88818088 2.18763652]

gradient= [-1.38724370e-04 -2.97947904e-05 1.68519160e-04] w = [-0.0758174 0.88818088 2.18763652] w\_new= [-0.07581878 0.88818058 2.18763821]

gradient= [-1.38529880e-04 -2.97567428e-05 1.68286623e-04] w = [-0.07581878 0.88818058 2.18763821] w\_new= [-0.07582017 0.88818028 2.18763989]

gradient= [-1.38335664e-04 -2.97187431e-05 1.68054407e-04] w = [-0.07582017 0.88818028 2.18763989] w\_new= [-0.07582155 0.88817998 2.18764157]

gradient= [-1.38141720e-04 -2.96807911e-05 1.67822511e-04] w = [-0.07582155 0.88817998 2.18764157] w\_new= [-0.07582293 0.88817969 2.18764325]

gradient= [-1.37948049e-04 -2.96428868e-05 1.67590935e-04] w = [-0.07582293 0.88817969 2.18764325] w\_new= [-0.07582431 0.88817939 2.18764492]

gradient= [-1.37754649e-04 -2.96050302e-05 1.67359679e-04] w = [-0.07582431 0.88817939 2.18764492] w\_new= [-0.07582569 0.88817909 2.1876466 ]

gradient= [-1.37561521e-04 -2.95672212e-05 1.67128743e-04] w = [-0.07582569 0.88817909 2.1876466 ] w\_new= [-0.07582707 0.8881788 2.18764827]

gradient= [-1.37368665e-04 -2.95294597e-05 1.66898125e-04] w = [-0.07582707 0.8881788 2.18764827] w\_new= [-0.07582844 0.8881785 2.18764994]

gradient= [-1.37176079e-04 -2.94917457e-05 1.66667825e-04] w = [-0.07582844 0.8881785 2.18764994] w\_new= [-0.07582981 0.88817821 2.1876516 ]

gradient= [-1.36983764e-04 -2.94540791e-05 1.66437843e-04] w = [-0.07582981 0.88817821 2.1876516 ] w\_new= [-0.07583118 0.88817791 2.18765327]

gradient= [-1.36791719e-04 -2.94164599e-05 1.66208179e-04] w = [-0.07583118 0.88817791 2.18765327] w\_new= [-0.07583255 0.88817762 2.18765493]

gradient= [-1.36599943e-04 -2.93788879e-05 1.65978831e-04] w = [-0.07583255 0.88817762 2.18765493] w\_new= [-0.07583392 0.88817733 2.18765659]

gradient= [-1.36408437e-04 -2.93413632e-05 1.65749800e-04] w = [-0.07583392 0.88817733 2.18765659] w\_new= [-0.07583528 0.88817703 2.18765825]

gradient= [-1.36217200e-04 -2.93038857e-05 1.65521085e-04] w = [-0.07583528 0.88817703 2.18765825] w\_new= [-0.07583664 0.88817674 2.1876599 ]

gradient= [-1.36026231e-04 -2.92664553e-05 1.65292686e-04] w = [-0.07583664 0.88817674 2.1876599 ] w\_new= [-0.075838 0.88817645 2.18766156]

gradient= [-1.35835530e-04 -2.92290720e-05 1.65064602e-04] w = [-0.075838 0.88817645 2.18766156] w\_new= [-0.07583936 0.88817615 2.18766321]

gradient= [-1.35645098e-04 -2.91917357e-05 1.64836833e-04] w = [-0.07583936 0.88817615 2.18766321] w\_new= [-0.07584072 0.88817586 2.18766485]

gradient= [-1.35454932e-04 -2.91544463e-05 1.64609379e-04] w = [-0.07584072 0.88817586 2.18766485] w\_new= [-0.07584207 0.88817557 2.1876665 ]

gradient= [-1.35265034e-04 -2.91172038e-05 1.64382238e-04] w = [-0.07584207 0.88817557 2.1876665 ] w\_new= [-0.07584342 0.88817528 2.18766814]

gradient= [-1.35075403e-04 -2.90800082e-05 1.64155411e-04] w = [-0.07584342 0.88817528 2.18766814] w\_new= [-0.07584477 0.88817499 2.18766979]

gradient= [-1.34886037e-04 -2.90428593e-05 1.63928897e-04] w = [-0.07584477 0.88817499 2.18766979] w\_new= [-0.07584612 0.8881747 2.18767143]

gradient= [-1.34696938e-04 -2.90057572e-05 1.63702695e-04] w = [-0.07584612 0.8881747 2.18767143] w\_new= [-0.07584747 0.88817441 2.18767306]

gradient= [-1.34508104e-04 -2.89687017e-05 1.63476806e-04] w = [-0.07584747 0.88817441 2.18767306] w\_new= [-0.07584882 0.88817412 2.1876747 ]

gradient= [-1.34319535e-04 -2.89316928e-05 1.63251228e-04] w = [-0.07584882 0.88817412 2.1876747 ] w\_new= [-0.07585016 0.88817383 2.18767633]

gradient= [-1.34131231e-04 -2.88947305e-05 1.63025962e-04] w = [-0.07585016 0.88817383 2.18767633] w\_new= [-0.0758515 0.88817354 2.18767796]

gradient= [-1.33943192e-04 -2.88578146e-05 1.62801007e-04] w = [-0.0758515 0.88817354 2.18767796] w\_new= [-0.07585284 0.88817325 2.18767959]

gradient= [-1.33755417e-04 -2.88209452e-05 1.62576362e-04] w = [-0.07585284 0.88817325 2.18767959] w\_new= [-0.07585418 0.88817296 2.18768121]

gradient= [-1.33567905e-04 -2.87841222e-05 1.62352027e-04] w = [-0.07585418 0.88817296 2.18768121] w\_new= [-0.07585551 0.88817268 2.18768284]

gradient= [-1.33380656e-04 -2.87473455e-05 1.62128002e-04] w = [-0.07585551 0.88817268 2.18768284] w\_new= [-0.07585685 0.88817239 2.18768446]

gradient= [-1.33193671e-04 -2.87106150e-05 1.61904286e-04] w = [-0.07585685 0.88817239 2.18768446] w\_new= [-0.07585818 0.8881721 2.18768608]

gradient= [-1.33006948e-04 -2.86739308e-05 1.61680879e-04] w = [-0.07585818 0.8881721 2.18768608] w\_new= [-0.07585951 0.88817181 2.18768769]

gradient= [-1.32820487e-04 -2.86372927e-05 1.61457780e-04] w = [-0.07585951 0.88817181 2.18768769] w\_new= [-0.07586084 0.88817153 2.18768931]

gradient= [-1.32634288e-04 -2.86007007e-05 1.61234989e-04] w = [-0.07586084 0.88817153 2.18768931] w\_new= [-0.07586216 0.88817124 2.18769092]

gradient= [-1.32448351e-04 -2.85641547e-05 1.61012506e-04] w = [-0.07586216 0.88817124 2.18769092] w\_new= [-0.07586349 0.88817096 2.18769253]

gradient= [-1.32262675e-04 -2.85276547e-05 1.60790329e-04] w = [-0.07586349 0.88817096 2.18769253] w\_new= [-0.07586481 0.88817067 2.18769414]

gradient= [-1.32077259e-04 -2.84912006e-05 1.60568460e-04] w = [-0.07586481 0.88817067 2.18769414] w\_new= [-0.07586613 0.88817039 2.18769575]

gradient= [-1.31892104e-04 -2.84547924e-05 1.60346896e-04] w = [-0.07586613 0.88817039 2.18769575] w\_new= [-0.07586745 0.8881701 2.18769735]

gradient= [-1.31707209e-04 -2.84184300e-05 1.60125639e-04] w = [-0.07586745 0.8881701 2.18769735] w\_new= [-0.07586877 0.88816982 2.18769895]

gradient= [-1.31522573e-04 -2.83821133e-05 1.59904686e-04] w = [-0.07586877 0.88816982 2.18769895] w\_new= [-0.07587008 0.88816953 2.18770055]

gradient= [-1.31338197e-04 -2.83458423e-05 1.59684039e-04] w = [-0.07587008 0.88816953 2.18770055] w\_new= [-0.0758714 0.88816925 2.18770215]

gradient= [-1.31154079e-04 -2.83096170e-05 1.59463696e-04] w = [-0.0758714 0.88816925 2.18770215] w\_new= [-0.07587271 0.88816897 2.18770374]

gradient= [-1.30970220e-04 -2.82734373e-05 1.59243658e-04] w = [-0.07587271 0.88816897 2.18770374] w\_new= [-0.07587402 0.88816868 2.18770533]

gradient= [-1.30786620e-04 -2.82373030e-05 1.59023923e-04] w = [-0.07587402 0.88816868 2.18770533] w\_new= [-0.07587532 0.8881684 2.18770692]

gradient= [-1.30603277e-04 -2.82012143e-05 1.58804491e-04] w = [-0.07587532 0.8881684 2.18770692] w\_new= [-0.07587663 0.88816812 2.18770851]

gradient= [-1.30420191e-04 -2.81651709e-05 1.58585362e-04] w = [-0.07587663 0.88816812 2.18770851] w\_new= [-0.07587794 0.88816784 2.1877101 ]

gradient= [-1.30237363e-04 -2.81291729e-05 1.58366536e-04] w = [-0.07587794 0.88816784 2.1877101 ] w\_new= [-0.07587924 0.88816756 2.18771168]

gradient= [-1.30054791e-04 -2.80932202e-05 1.58148011e-04] w = [-0.07587924 0.88816756 2.18771168] w\_new= [-0.07588054 0.88816728 2.18771326]

gradient= [-1.29872476e-04 -2.80573128e-05 1.57929788e-04] w = [-0.07588054 0.88816728 2.18771326] w\_new= [-0.07588184 0.888167 2.18771484]

gradient= [-1.29690416e-04 -2.80214505e-05 1.57711867e-04] w = [-0.07588184 0.888167 2.18771484] w\_new= [-0.07588313 0.88816672 2.18771642]

gradient= [-1.29508613e-04 -2.79856334e-05 1.57494246e-04] w = [-0.07588313 0.88816672 2.18771642] w\_new= [-0.07588443 0.88816644 2.18771799]

gradient= [-1.29327064e-04 -2.79498613e-05 1.57276925e-04] w = [-0.07588443 0.88816644 2.18771799] w\_new= [-0.07588572 0.88816616 2.18771957]

gradient= [-1.29145771e-04 -2.79141343e-05 1.57059905e-04] w = [-0.07588572 0.88816616 2.18771957] w\_new= [-0.07588701 0.88816588 2.18772114]

gradient= [-1.28964732e-04 -2.78784523e-05 1.56843184e-04] w = [-0.07588701 0.88816588 2.18772114] w\_new= [-0.0758883 0.8881656 2.18772271]

gradient= [-1.28783947e-04 -2.78428151e-05 1.56626762e-04] w = [-0.0758883 0.8881656 2.18772271] w\_new= [-0.07588959 0.88816532 2.18772427]

gradient= [-1.28603416e-04 -2.78072228e-05 1.56410639e-04] w = [-0.07588959 0.88816532 2.18772427] w\_new= [-0.07589088 0.88816504 2.18772584]

gradient= [-1.28423138e-04 -2.77716753e-05 1.56194814e-04] w = [-0.07589088 0.88816504 2.18772584] w\_new= [-0.07589216 0.88816476 2.1877274 ]

gradient= [-1.28243114e-04 -2.77361726e-05 1.55979287e-04] w = [-0.07589216 0.88816476 2.1877274 ] w\_new= [-0.07589344 0.88816449 2.18772896]

gradient= [-1.28063343e-04 -2.77007145e-05 1.55764057e-04] w = [-0.07589344 0.88816449 2.18772896] w\_new= [-0.07589472 0.88816421 2.18773051]

gradient= [-1.27883824e-04 -2.76653011e-05 1.55549125e-04] w = [-0.07589472 0.88816421 2.18773051] w\_new= [-0.075896 0.88816393 2.18773207]

gradient= [-1.27704556e-04 -2.76299322e-05 1.55334489e-04] w = [-0.075896 0.88816393 2.18773207] w\_new= [-0.07589728 0.88816366 2.18773362]

gradient= [-1.27525541e-04 -2.75946079e-05 1.55120149e-04] w = [-0.07589728 0.88816366 2.18773362] w\_new= [-0.07589856 0.88816338 2.18773518]

gradient= [-1.27346777e-04 -2.75593280e-05 1.54906105e-04] w = [-0.07589856 0.88816338 2.18773518] w\_new= [-0.07589983 0.8881631 2.18773672]

gradient= [-1.27168264e-04 -2.75240926e-05 1.54692357e-04] w = [-0.07589983 0.8881631 2.18773672] w\_new= [-0.0759011 0.88816283 2.18773827]

gradient= [-1.26990002e-04 -2.74889015e-05 1.54478903e-04] w = [-0.0759011 0.88816283 2.18773827] w\_new= [-0.07590237 0.88816255 2.18773982]

gradient= [-1.26811990e-04 -2.74537547e-05 1.54265744e-04] w = [-0.07590237 0.88816255 2.18773982] w\_new= [-0.07590364 0.88816228 2.18774136]

gradient= [-1.26634228e-04 -2.74186522e-05 1.54052880e-04] w = [-0.07590364 0.88816228 2.18774136] w\_new= [-0.0759049 0.88816201 2.1877429 ]

gradient= [-1.26456715e-04 -2.73835939e-05 1.53840309e-04] w = [-0.0759049 0.88816201 2.1877429 ] w\_new= [-0.07590617 0.88816173 2.18774444]

gradient= [-1.26279452e-04 -2.73485797e-05 1.53628031e-04] w = [-0.07590617 0.88816173 2.18774444] w\_new= [-0.07590743 0.88816146 2.18774597]

gradient= [-1.26102437e-04 -2.73136096e-05 1.53416047e-04] w = [-0.07590743 0.88816146 2.18774597] w\_new= [-0.07590869 0.88816119 2.18774751]

gradient= [-1.25925672e-04 -2.72786835e-05 1.53204355e-04] w = [-0.07590869 0.88816119 2.18774751] w\_new= [-0.07590995 0.88816091 2.18774904]

gradient= [-1.25749154e-04 -2.72438014e-05 1.52992955e-04] w = [-0.07590995 0.88816091 2.18774904] w\_new= [-0.07591121 0.88816064 2.18775057]

gradient= [-1.25572884e-04 -2.72089632e-05 1.52781847e-04] w = [-0.07591121 0.88816064 2.18775057] w\_new= [-0.07591247 0.88816037 2.1877521 ]

gradient= [-1.25396862e-04 -2.71741689e-05 1.52571031e-04] w = [-0.07591247 0.88816037 2.1877521 ] w\_new= [-0.07591372 0.8881601 2.18775362]

gradient= [-1.25221086e-04 -2.71394184e-05 1.52360505e-04] w = [-0.07591372 0.8881601 2.18775362] w\_new= [-0.07591497 0.88815983 2.18775515]

gradient= [-1.25045558e-04 -2.71047117e-05 1.52150270e-04] w = [-0.07591497 0.88815983 2.18775515] w\_new= [-0.07591622 0.88815955 2.18775667]

gradient= [-1.24870276e-04 -2.70700486e-05 1.51940325e-04] w = [-0.07591622 0.88815955 2.18775667] w\_new= [-0.07591747 0.88815928 2.18775819]

gradient= [-1.24695240e-04 -2.70354293e-05 1.51730670e-04] w = [-0.07591747 0.88815928 2.18775819] w\_new= [-0.07591872 0.88815901 2.18775971]

gradient= [-1.24520450e-04 -2.70008535e-05 1.51521304e-04] w = [-0.07591872 0.88815901 2.18775971] w\_new= [-0.07591996 0.88815874 2.18776122]

gradient= [-1.24345905e-04 -2.69663213e-05 1.51312227e-04] w = [-0.07591996 0.88815874 2.18776122] w\_new= [-0.07592121 0.88815847 2.18776273]

gradient= [-1.24171606e-04 -2.69318325e-05 1.51103438e-04] w = [-0.07592121 0.88815847 2.18776273] w\_new= [-0.07592245 0.8881582 2.18776424]

gradient= [-1.23997551e-04 -2.68973872e-05 1.50894938e-04] w = [-0.07592245 0.8881582 2.18776424] w\_new= [-0.07592369 0.88815793 2.18776575]

gradient= [-1.23823740e-04 -2.68629853e-05 1.50686726e-04] w = [-0.07592369 0.88815793 2.18776575] w\_new= [-0.07592493 0.88815767 2.18776726]

gradient= [-1.23650174e-04 -2.68286267e-05 1.50478801e-04] w = [-0.07592493 0.88815767 2.18776726] w\_new= [-0.07592616 0.8881574 2.18776877]

gradient= [-1.23476851e-04 -2.67943114e-05 1.50271162e-04] w = [-0.07592616 0.8881574 2.18776877] w\_new= [-0.0759274 0.88815713 2.18777027]

gradient= [-1.23303771e-04 -2.67600393e-05 1.50063811e-04] w = [-0.0759274 0.88815713 2.18777027] w\_new= [-0.07592863 0.88815686 2.18777177]

gradient= [-1.23130935e-04 -2.67258104e-05 1.49856745e-04] w = [-0.07592863 0.88815686 2.18777177] w\_new= [-0.07592986 0.8881566 2.18777327]

gradient= [-1.22958341e-04 -2.66916246e-05 1.49649966e-04] w = [-0.07592986 0.8881566 2.18777327] w\_new= [-0.07593109 0.88815633 2.18777476]

gradient= [-1.22785990e-04 -2.66574818e-05 1.49443471e-04] w = [-0.07593109 0.88815633 2.18777476] w\_new= [-0.07593232 0.88815606 2.18777626]

gradient= [-1.22613880e-04 -2.66233821e-05 1.49237262e-04] w = [-0.07593232 0.88815606 2.18777626] w\_new= [-0.07593355 0.8881558 2.18777775]

gradient= [-1.22442012e-04 -2.65893253e-05 1.49031338e-04] w = [-0.07593355 0.8881558 2.18777775] w\_new= [-0.07593477 0.88815553 2.18777924]

gradient= [-1.22270386e-04 -2.65553115e-05 1.48825697e-04] w = [-0.07593477 0.88815553 2.18777924] w\_new= [-0.07593599 0.88815526 2.18778073]

gradient= [-1.22099000e-04 -2.65213405e-05 1.48620340e-04] w = [-0.07593599 0.88815526 2.18778073] w\_new= [-0.07593721 0.888155 2.18778222]

gradient= [-1.21927855e-04 -2.64874122e-05 1.48415267e-04] w = [-0.07593721 0.888155 2.18778222] w\_new= [-0.07593843 0.88815473 2.1877837 ]

gradient= [-1.21756950e-04 -2.64535268e-05 1.48210477e-04] w = [-0.07593843 0.88815473 2.1877837 ] w\_new= [-0.07593965 0.88815447 2.18778518]

gradient= [-1.21586285e-04 -2.64196840e-05 1.48005969e-04] w = [-0.07593965 0.88815447 2.18778518] w\_new= [-0.07594087 0.88815421 2.18778666]

gradient= [-1.21415860e-04 -2.63858838e-05 1.47801744e-04] w = [-0.07594087 0.88815421 2.18778666] w\_new= [-0.07594208 0.88815394 2.18778814]

gradient= [-1.21245674e-04 -2.63521263e-05 1.47597800e-04] w = [-0.07594208 0.88815394 2.18778814] w\_new= [-0.07594329 0.88815368 2.18778962]

gradient= [-1.21075727e-04 -2.63184112e-05 1.47394138e-04] w = [-0.07594329 0.88815368 2.18778962] w\_new= [-0.0759445 0.88815341 2.18779109]

gradient= [-1.20906019e-04 -2.62847387e-05 1.47190757e-04] w = [-0.0759445 0.88815341 2.18779109] w\_new= [-0.07594571 0.88815315 2.18779256]

gradient= [-1.20736549e-04 -2.62511086e-05 1.46987657e-04] w = [-0.07594571 0.88815315 2.18779256] w\_new= [-0.07594692 0.88815289 2.18779403]

gradient= [-1.20567316e-04 -2.62175208e-05 1.46784837e-04] w = [-0.07594692 0.88815289 2.18779403] w\_new= [-0.07594813 0.88815263 2.1877955 ]

gradient= [-1.20398322e-04 -2.61839754e-05 1.46582297e-04] w = [-0.07594813 0.88815263 2.1877955 ] w\_new= [-0.07594933 0.88815237 2.18779696]

gradient= [-1.20229564e-04 -2.61504723e-05 1.46380037e-04] w = [-0.07594933 0.88815237 2.18779696] w\_new= [-0.07595053 0.8881521 2.18779843]

gradient= [-1.20061044e-04 -2.61170114e-05 1.46178055e-04] w = [-0.07595053 0.8881521 2.18779843] w\_new= [-0.07595173 0.88815184 2.18779989]

gradient= [-1.19892760e-04 -2.60835926e-05 1.45976353e-04] w = [-0.07595173 0.88815184 2.18779989] w\_new= [-0.07595293 0.88815158 2.18780135]

gradient= [-1.19724712e-04 -2.60502160e-05 1.45774928e-04] w = [-0.07595293 0.88815158 2.18780135] w\_new= [-0.07595413 0.88815132 2.18780281]

gradient= [-1.19556901e-04 -2.60168814e-05 1.45573782e-04] w = [-0.07595413 0.88815132 2.18780281] w\_new= [-0.07595532 0.88815106 2.18780426]

gradient= [-1.19389324e-04 -2.59835888e-05 1.45372913e-04] w = [-0.07595532 0.88815106 2.18780426] w\_new= [-0.07595652 0.8881508 2.18780572]

gradient= [-1.19221984e-04 -2.59503382e-05 1.45172322e-04] w = [-0.07595652 0.8881508 2.18780572] w\_new= [-0.07595771 0.88815054 2.18780717]

gradient= [-1.19054878e-04 -2.59171295e-05 1.44972007e-04] w = [-0.07595771 0.88815054 2.18780717] w\_new= [-0.0759589 0.88815028 2.18780862]

gradient= [-1.18888006e-04 -2.58839627e-05 1.44771969e-04] w = [-0.0759589 0.88815028 2.18780862] w\_new= [-0.07596009 0.88815002 2.18781007]

gradient= [-1.18721369e-04 -2.58508376e-05 1.44572207e-04] w = [-0.07596009 0.88815002 2.18781007] w\_new= [-0.07596128 0.88814977 2.18781151]

gradient= [-1.18554966e-04 -2.58177543e-05 1.44372720e-04] w = [-0.07596128 0.88814977 2.18781151] w\_new= [-0.07596246 0.88814951 2.18781296]

gradient= [-1.18388796e-04 -2.57847128e-05 1.44173509e-04] w = [-0.07596246 0.88814951 2.18781296] w\_new= [-0.07596365 0.88814925 2.1878144 ]

gradient= [-1.18222860e-04 -2.57517128e-05 1.43974573e-04] w = [-0.07596365 0.88814925 2.1878144 ] w\_new= [-0.07596483 0.88814899 2.18781584]

gradient= [-1.18057157e-04 -2.57187545e-05 1.43775911e-04] w = [-0.07596483 0.88814899 2.18781584] w\_new= [-0.07596601 0.88814873 2.18781728]

gradient= [-1.17891686e-04 -2.56858377e-05 1.43577524e-04] w = [-0.07596601 0.88814873 2.18781728] w\_new= [-0.07596719 0.88814848 2.18781871]

gradient= [-1.17726448e-04 -2.56529624e-05 1.43379410e-04] w = [-0.07596719 0.88814848 2.18781871] w\_new= [-0.07596837 0.88814822 2.18782014]

gradient= [-1.17561441e-04 -2.56201285e-05 1.43181570e-04] w = [-0.07596837 0.88814822 2.18782014] w\_new= [-0.07596954 0.88814796 2.18782158]

gradient= [-1.17396667e-04 -2.55873361e-05 1.42984003e-04] w = [-0.07596954 0.88814796 2.18782158] w\_new= [-0.07597072 0.88814771 2.18782301]

gradient= [-1.17232123e-04 -2.55545849e-05 1.42786708e-04] w = [-0.07597072 0.88814771 2.18782301] w\_new= [-0.07597189 0.88814745 2.18782443]

gradient= [-1.17067811e-04 -2.55218751e-05 1.42589686e-04] w = [-0.07597189 0.88814745 2.18782443] w\_new= [-0.07597306 0.8881472 2.18782586]

gradient= [-1.16903729e-04 -2.54892065e-05 1.42392935e-04] w = [-0.07597306 0.8881472 2.18782586] w\_new= [-0.07597423 0.88814694 2.18782728]

gradient= [-1.16739877e-04 -2.54565791e-05 1.42196457e-04] w = [-0.07597423 0.88814694 2.18782728] w\_new= [-0.07597539 0.88814669 2.18782871]

gradient= [-1.16576256e-04 -2.54239928e-05 1.42000249e-04] w = [-0.07597539 0.88814669 2.18782871] w\_new= [-0.07597656 0.88814643 2.18783013]

gradient= [-1.16412864e-04 -2.53914476e-05 1.41804312e-04] w = [-0.07597656 0.88814643 2.18783013] w\_new= [-0.07597772 0.88814618 2.18783154]

gradient= [-1.16249702e-04 -2.53589435e-05 1.41608645e-04] w = [-0.07597772 0.88814618 2.18783154] w\_new= [-0.07597889 0.88814593 2.18783296]

gradient= [-1.16086769e-04 -2.53264803e-05 1.41413249e-04] w = [-0.07597889 0.88814593 2.18783296] w\_new= [-0.07598005 0.88814567 2.18783437]

gradient= [-1.15924064e-04 -2.52940581e-05 1.41218122e-04] w = [-0.07598005 0.88814567 2.18783437] w\_new= [-0.07598121 0.88814542 2.18783579]

gradient= [-1.15761588e-04 -2.52616767e-05 1.41023264e-04] w = [-0.07598121 0.88814542 2.18783579] w\_new= [-0.07598237 0.88814517 2.1878372 ]

gradient= [-1.15599340e-04 -2.52293362e-05 1.40828676e-04] w = [-0.07598237 0.88814517 2.1878372 ] w\_new= [-0.07598352 0.88814492 2.18783861]

gradient= [-1.15437319e-04 -2.51970365e-05 1.40634356e-04] w = [-0.07598352 0.88814492 2.18783861] w\_new= [-0.07598468 0.88814466 2.18784001]

gradient= [-1.15275526e-04 -2.51647775e-05 1.40440304e-04] w = [-0.07598468 0.88814466 2.18784001] w\_new= [-0.07598583 0.88814441 2.18784142]

gradient= [-1.15113961e-04 -2.51325592e-05 1.40246520e-04] w = [-0.07598583 0.88814441 2.18784142] w\_new= [-0.07598698 0.88814416 2.18784282]

gradient= [-1.14952622e-04 -2.51003815e-05 1.40053003e-04] w = [-0.07598698 0.88814416 2.18784282] w\_new= [-0.07598813 0.88814391 2.18784422]

gradient= [-1.14791509e-04 -2.50682444e-05 1.39859753e-04] w = [-0.07598813 0.88814391 2.18784422] w\_new= [-0.07598928 0.88814366 2.18784562]

gradient= [-1.14630623e-04 -2.50361478e-05 1.39666771e-04] w = [-0.07598928 0.88814366 2.18784562] w\_new= [-0.07599042 0.88814341 2.18784701]

gradient= [-1.14469962e-04 -2.50040917e-05 1.39474054e-04] w = [-0.07599042 0.88814341 2.18784701] w\_new= [-0.07599157 0.88814316 2.18784841]

gradient= [-1.14309527e-04 -2.49720760e-05 1.39281603e-04] w = [-0.07599157 0.88814316 2.18784841] w\_new= [-0.07599271 0.88814291 2.1878498 ]

gradient= [-1.14149318e-04 -2.49401007e-05 1.39089418e-04] w = [-0.07599271 0.88814291 2.1878498 ] w\_new= [-0.07599385 0.88814266 2.18785119]

gradient= [-1.13989333e-04 -2.49081658e-05 1.38897498e-04] w = [-0.07599385 0.88814266 2.18785119] w\_new= [-0.07599499 0.88814241 2.18785258]

gradient= [-1.13829572e-04 -2.48762711e-05 1.38705843e-04] w = [-0.07599499 0.88814241 2.18785258] w\_new= [-0.07599613 0.88814216 2.18785397]

gradient= [-1.13670036e-04 -2.48444167e-05 1.38514453e-04] w = [-0.07599613 0.88814216 2.18785397] w\_new= [-0.07599727 0.88814191 2.18785535]

gradient= [-1.13510724e-04 -2.48126024e-05 1.38323327e-04] w = [-0.07599727 0.88814191 2.18785535] w\_new= [-0.0759984 0.88814167 2.18785674]

gradient= [-1.13351636e-04 -2.47808282e-05 1.38132464e-04] w = [-0.0759984 0.88814167 2.18785674] w\_new= [-0.07599954 0.88814142 2.18785812]

gradient= [-1.13192771e-04 -2.47490942e-05 1.37941865e-04] w = [-0.07599954 0.88814142 2.18785812] w\_new= [-0.07600067 0.88814117 2.1878595 ]

gradient= [-1.13034129e-04 -2.47174002e-05 1.37751529e-04] w = [-0.07600067 0.88814117 2.1878595 ] w\_new= [-0.0760018 0.88814092 2.18786088]

gradient= [-1.12875709e-04 -2.46857461e-05 1.37561455e-04] w = [-0.0760018 0.88814092 2.18786088] w\_new= [-0.07600293 0.88814068 2.18786225]

gradient= [-1.12717512e-04 -2.46541320e-05 1.37371644e-04] w = [-0.07600293 0.88814068 2.18786225] w\_new= [-0.07600405 0.88814043 2.18786362]

gradient= [-1.12559537e-04 -2.46225578e-05 1.37182095e-04] w = [-0.07600405 0.88814043 2.18786362] w\_new= [-0.07600518 0.88814018 2.187865 ]

gradient= [-1.12401784e-04 -2.45910234e-05 1.36992807e-04] w = [-0.07600518 0.88814018 2.187865 ] w\_new= [-0.0760063 0.88813994 2.18786637]

gradient= [-1.12244252e-04 -2.45595288e-05 1.36803781e-04] w = [-0.0760063 0.88813994 2.18786637] w\_new= [-0.07600743 0.88813969 2.18786773]

gradient= [-1.12086941e-04 -2.45280739e-05 1.36615015e-04] w = [-0.07600743 0.88813969 2.18786773] w\_new= [-0.07600855 0.88813945 2.1878691 ]

gradient= [-1.11929852e-04 -2.44966587e-05 1.36426510e-04] w = [-0.07600855 0.88813945 2.1878691 ] w\_new= [-0.07600967 0.8881392 2.18787046]

gradient= [-1.11772982e-04 -2.44652832e-05 1.36238265e-04] w = [-0.07600967 0.8881392 2.18787046] w\_new= [-0.07601078 0.88813896 2.18787183]

gradient= [-1.11616333e-04 -2.44339472e-05 1.36050280e-04] w = [-0.07601078 0.88813896 2.18787183] w\_new= [-0.0760119 0.88813871 2.18787319]

gradient= [-1.11459904e-04 -2.44026508e-05 1.35862555e-04] w = [-0.0760119 0.88813871 2.18787319] w\_new= [-0.07601301 0.88813847 2.18787455]

gradient= [-1.11303694e-04 -2.43713939e-05 1.35675088e-04] w = [-0.07601301 0.88813847 2.18787455] w\_new= [-0.07601413 0.88813822 2.1878759 ]

gradient= [-1.11147704e-04 -2.43401764e-05 1.35487880e-04] w = [-0.07601413 0.88813822 2.1878759 ] w\_new= [-0.07601524 0.88813798 2.18787726]

gradient= [-1.10991932e-04 -2.43089983e-05 1.35300931e-04] w = [-0.07601524 0.88813798 2.18787726] w\_new= [-0.07601635 0.88813774 2.18787861]

gradient= [-1.10836380e-04 -2.42778595e-05 1.35114239e-04] w = [-0.07601635 0.88813774 2.18787861] w\_new= [-0.07601746 0.8881375 2.18787996]

gradient= [-1.10681045e-04 -2.42467601e-05 1.34927805e-04] w = [-0.07601746 0.8881375 2.18787996] w\_new= [-0.07601856 0.88813725 2.18788131]

gradient= [-1.10525929e-04 -2.42156999e-05 1.34741628e-04] w = [-0.07601856 0.88813725 2.18788131] w\_new= [-0.07601967 0.88813701 2.18788266]

gradient= [-1.10371030e-04 -2.41846788e-05 1.34555709e-04] w = [-0.07601967 0.88813701 2.18788266] w\_new= [-0.07602077 0.88813677 2.187884 ]

gradient= [-1.10216349e-04 -2.41536970e-05 1.34370046e-04] w = [-0.07602077 0.88813677 2.187884 ] w\_new= [-0.07602188 0.88813653 2.18788535]

gradient= [-1.10061885e-04 -2.41227542e-05 1.34184639e-04] w = [-0.07602188 0.88813653 2.18788535] w\_new= [-0.07602298 0.88813629 2.18788669]

gradient= [-1.09907637e-04 -2.40918505e-05 1.33999488e-04] w = [-0.07602298 0.88813629 2.18788669] w\_new= [-0.07602408 0.88813605 2.18788803]

gradient= [-1.09753606e-04 -2.40609858e-05 1.33814592e-04] w = [-0.07602408 0.88813605 2.18788803] w\_new= [-0.07602517 0.8881358 2.18788937]

gradient= [-1.09599792e-04 -2.40301600e-05 1.33629952e-04] w = [-0.07602517 0.8881358 2.18788937] w\_new= [-0.07602627 0.88813556 2.1878907 ]

gradient= [-1.09446193e-04 -2.39993732e-05 1.33445566e-04] w = [-0.07602627 0.88813556 2.1878907 ] w\_new= [-0.07602736 0.88813532 2.18789204]

gradient= [-1.09292810e-04 -2.39686252e-05 1.33261435e-04] w = [-0.07602736 0.88813532 2.18789204] w\_new= [-0.07602846 0.88813508 2.18789337]

gradient= [-1.09139642e-04 -2.39379160e-05 1.33077558e-04] w = [-0.07602846 0.88813508 2.18789337] w\_new= [-0.07602955 0.88813485 2.1878947 ]

gradient= [-1.08986689e-04 -2.39072456e-05 1.32893935e-04] w = [-0.07602955 0.88813485 2.1878947 ] w\_new= [-0.07603064 0.88813461 2.18789603]

gradient= [-1.08833951e-04 -2.38766139e-05 1.32710565e-04] w = [-0.07603064 0.88813461 2.18789603] w\_new= [-0.07603173 0.88813437 2.18789736]

gradient= [-1.08681427e-04 -2.38460209e-05 1.32527448e-04] w = [-0.07603173 0.88813437 2.18789736] w\_new= [-0.07603281 0.88813413 2.18789868]

gradient= [-1.08529118e-04 -2.38154664e-05 1.32344584e-04] w = [-0.07603281 0.88813413 2.18789868] w\_new= [-0.0760339 0.88813389 2.18790001]

gradient= [-1.08377022e-04 -2.37849506e-05 1.32161972e-04] w = [-0.0760339 0.88813389 2.18790001] w\_new= [-0.07603498 0.88813365 2.18790133]

gradient= [-1.08225139e-04 -2.37544733e-05 1.31979613e-04] w = [-0.07603498 0.88813365 2.18790133] w\_new= [-0.07603606 0.88813342 2.18790265]

gradient= [-1.08073470e-04 -2.37240344e-05 1.31797504e-04] w = [-0.07603606 0.88813342 2.18790265] w\_new= [-0.07603714 0.88813318 2.18790397]

gradient= [-1.07922014e-04 -2.36936340e-05 1.31615648e-04] w = [-0.07603714 0.88813318 2.18790397] w\_new= [-0.07603822 0.88813294 2.18790528]

gradient= [-1.07770770e-04 -2.36632720e-05 1.31434042e-04] w = [-0.07603822 0.88813294 2.18790528] w\_new= [-0.0760393 0.8881327 2.1879066]

gradient= [-1.07619738e-04 -2.36329483e-05 1.31252687e-04] w = [-0.0760393 0.8881327 2.1879066] w\_new= [-0.07604038 0.88813247 2.18790791]

gradient= [-1.07468919e-04 -2.36026629e-05 1.31071582e-04] w = [-0.07604038 0.88813247 2.18790791] w\_new= [-0.07604145 0.88813223 2.18790922]

gradient= [-1.07318311e-04 -2.35724157e-05 1.30890727e-04] w = [-0.07604145 0.88813223 2.18790922] w\_new= [-0.07604253 0.888132 2.18791053]

gradient= [-1.07167915e-04 -2.35422067e-05 1.30710121e-04] w = [-0.07604253 0.888132 2.18791053] w\_new= [-0.0760436 0.88813176 2.18791184]

gradient= [-1.07017729e-04 -2.35120358e-05 1.30529765e-04] w = [-0.0760436 0.88813176 2.18791184] w\_new= [-0.07604467 0.88813153 2.18791314]

gradient= [-1.06867755e-04 -2.34819031e-05 1.30349658e-04] w = [-0.07604467 0.88813153 2.18791314] w\_new= [-0.07604574 0.88813129 2.18791444]

gradient= [-1.06717991e-04 -2.34518084e-05 1.30169799e-04] w = [-0.07604574 0.88813129 2.18791444] w\_new= [-0.0760468 0.88813106 2.18791575]

gradient= [-1.06568437e-04 -2.34217517e-05 1.29990189e-04] w = [-0.0760468 0.88813106 2.18791575] w\_new= [-0.07604787 0.88813082 2.18791705]

gradient= [-1.06419093e-04 -2.33917330e-05 1.29810826e-04] w = [-0.07604787 0.88813082 2.18791705] w\_new= [-0.07604893 0.88813059 2.18791834]

gradient= [-1.06269959e-04 -2.33617521e-05 1.29631711e-04] w = [-0.07604893 0.88813059 2.18791834] w\_new= [-0.07605 0.88813036 2.18791964]

gradient= [-1.06121034e-04 -2.33318091e-05 1.29452843e-04] w = [-0.07605 0.88813036 2.18791964] w\_new= [-0.07605106 0.88813012 2.18792094]

gradient= [-1.05972318e-04 -2.33019040e-05 1.29274222e-04] w = [-0.07605106 0.88813012 2.18792094] w\_new= [-0.07605212 0.88812989 2.18792223]

gradient= [-1.05823810e-04 -2.32720366e-05 1.29095847e-04] w = [-0.07605212 0.88812989 2.18792223] w\_new= [-0.07605318 0.88812966 2.18792352]

gradient= [-1.05675512e-04 -2.32422069e-05 1.28917718e-04] w = [-0.07605318 0.88812966 2.18792352] w\_new= [-0.07605423 0.88812942 2.18792481]

gradient= [-1.05527421e-04 -2.32124149e-05 1.28739836e-04] w = [-0.07605423 0.88812942 2.18792481] w\_new= [-0.07605529 0.88812919 2.1879261 ]

gradient= [-1.05379538e-04 -2.31826605e-05 1.28562199e-04] w = [-0.07605529 0.88812919 2.1879261 ] w\_new= [-0.07605634 0.88812896 2.18792738]

gradient= [-1.05231863e-04 -2.31529437e-05 1.28384806e-04] w = [-0.07605634 0.88812896 2.18792738] w\_new= [-0.07605739 0.88812873 2.18792867]

gradient= [-1.05084395e-04 -2.31232645e-05 1.28207659e-04] w = [-0.07605739 0.88812873 2.18792867] w\_new= [-0.07605844 0.8881285 2.18792995]

gradient= [-1.04937134e-04 -2.30936227e-05 1.28030756e-04] w = [-0.07605844 0.8881285 2.18792995] w\_new= [-0.07605949 0.88812827 2.18793123]

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gradient= [-1.04643231e-04 -2.30344514e-05 1.27677683e-04] w = [-0.07606054 0.88812804 2.18793251] w\_new= [-0.07606159 0.8881278 2.18793378]

gradient= [-1.04496590e-04 -2.30049218e-05 1.27501511e-04] w = [-0.07606159 0.8881278 2.18793378] w\_new= [-0.07606263 0.88812757 2.18793506]

gradient= [-1.04350153e-04 -2.29754295e-05 1.27325583e-04] w = [-0.07606263 0.88812757 2.18793506] w\_new= [-0.07606368 0.88812735 2.18793633]

gradient= [-1.04203923e-04 -2.29459745e-05 1.27149897e-04] w = [-0.07606368 0.88812735 2.18793633] w\_new= [-0.07606472 0.88812712 2.1879376 ]

gradient= [-1.04057898e-04 -2.29165566e-05 1.26974454e-04] w = [-0.07606472 0.88812712 2.1879376 ] w\_new= [-0.07606576 0.88812689 2.18793887]

gradient= [-1.03912077e-04 -2.28871760e-05 1.26799253e-04] w = [-0.07606576 0.88812689 2.18793887] w\_new= [-0.0760668 0.88812666 2.18794014]

gradient= [-1.03766462e-04 -2.28578324e-05 1.26624294e-04] w = [-0.0760668 0.88812666 2.18794014] w\_new= [-0.07606784 0.88812643 2.18794141]

gradient= [-1.03621050e-04 -2.28285260e-05 1.26449576e-04] w = [-0.07606784 0.88812643 2.18794141] w\_new= [-0.07606887 0.8881262 2.18794267]

gradient= [-1.03475843e-04 -2.27992565e-05 1.26275100e-04] w = [-0.07606887 0.8881262 2.18794267] w\_new= [-0.07606991 0.88812597 2.18794393]

gradient= [-1.03330840e-04 -2.27700240e-05 1.26100864e-04] w = [-0.07606991 0.88812597 2.18794393] w\_new= [-0.07607094 0.88812575 2.18794519]

gradient= [-1.03186040e-04 -2.27408285e-05 1.25926868e-04] w = [-0.07607094 0.88812575 2.18794519] w\_new= [-0.07607197 0.88812552 2.18794645]

gradient= [-1.03041443e-04 -2.27116698e-05 1.25753113e-04] w = [-0.07607197 0.88812552 2.18794645] w\_new= [-0.076073 0.88812529 2.18794771]

gradient= [-1.02897049e-04 -2.26825480e-05 1.25579597e-04] w = [-0.076073 0.88812529 2.18794771] w\_new= [-0.07607403 0.88812506 2.18794897]

gradient= [-1.02752858e-04 -2.26534630e-05 1.25406321e-04] w = [-0.07607403 0.88812506 2.18794897] w\_new= [-0.07607506 0.88812484 2.18795022]

gradient= [-1.02608869e-04 -2.26244147e-05 1.25233284e-04] w = [-0.07607506 0.88812484 2.18795022] w\_new= [-0.07607608 0.88812461 2.18795147]

gradient= [-1.02465083e-04 -2.25954032e-05 1.25060486e-04] w = [-0.07607608 0.88812461 2.18795147] w\_new= [-0.07607711 0.88812439 2.18795272]

gradient= [-1.02321498e-04 -2.25664282e-05 1.24887926e-04] w = [-0.07607711 0.88812439 2.18795272] w\_new= [-0.07607813 0.88812416 2.18795397]

gradient= [-1.02178114e-04 -2.25374900e-05 1.24715604e-04] w = [-0.07607813 0.88812416 2.18795397] w\_new= [-0.07607915 0.88812393 2.18795522]

gradient= [-1.02034932e-04 -2.25085882e-05 1.24543520e-04] w = [-0.07607915 0.88812393 2.18795522] w\_new= [-0.07608017 0.88812371 2.18795647]

gradient= [-1.01891951e-04 -2.24797230e-05 1.24371674e-04] w = [-0.07608017 0.88812371 2.18795647] w\_new= [-0.07608119 0.88812348 2.18795771]

gradient= [-1.01749170e-04 -2.24508943e-05 1.24200065e-04] w = [-0.07608119 0.88812348 2.18795771] w\_new= [-0.07608221 0.88812326 2.18795895]

gradient= [-1.01606590e-04 -2.24221020e-05 1.24028692e-04] w = [-0.07608221 0.88812326 2.18795895] w\_new= [-0.07608323 0.88812304 2.18796019]

gradient= [-1.01464210e-04 -2.23933461e-05 1.23857556e-04] w = [-0.07608323 0.88812304 2.18796019] w\_new= [-0.07608424 0.88812281 2.18796143]

gradient= [-1.01322030e-04 -2.23646266e-05 1.23686657e-04] w = [-0.07608424 0.88812281 2.18796143] w\_new= [-0.07608526 0.88812259 2.18796267]

gradient= [-1.01180049e-04 -2.23359433e-05 1.23515993e-04] w = [-0.07608526 0.88812259 2.18796267] w\_new= [-0.07608627 0.88812236 2.1879639 ]

gradient= [-1.01038268e-04 -2.23072963e-05 1.23345564e-04] w = [-0.07608627 0.88812236 2.1879639 ] w\_new= [-0.07608728 0.88812214 2.18796514]

gradient= [-1.00896685e-04 -2.22786855e-05 1.23175371e-04] w = [-0.07608728 0.88812214 2.18796514] w\_new= [-0.07608829 0.88812192 2.18796637]

gradient= [-1.00755302e-04 -2.22501108e-05 1.23005412e-04] w = [-0.07608829 0.88812192 2.18796637] w\_new= [-0.07608929 0.8881217 2.1879676 ]

gradient= [-1.00614116e-04 -2.22215723e-05 1.22835689e-04] w = [-0.07608929 0.8881217 2.1879676 ] w\_new= [-0.0760903 0.88812147 2.18796883]

gradient= [-1.00473129e-04 -2.21930698e-05 1.22666199e-04] w = [-0.0760903 0.88812147 2.18796883] w\_new= [-0.0760913 0.88812125 2.18797005]

gradient= [-1.00332340e-04 -2.21646034e-05 1.22496943e-04] w = [-0.0760913 0.88812125 2.18797005] w\_new= [-0.07609231 0.88812103 2.18797128]

gradient= [-1.00191748e-04 -2.21361730e-05 1.22327921e-04] w = [-0.07609231 0.88812103 2.18797128] w\_new= [-0.07609331 0.88812081 2.1879725 ]

gradient= [-1.00051353e-04 -2.21077785e-05 1.22159132e-04] w = [-0.07609331 0.88812081 2.1879725 ] w\_new= [-0.07609431 0.88812059 2.18797372]

gradient= [-9.99111560e-05 -2.20794198e-05 1.21990576e-04] w = [-0.07609431 0.88812059 2.18797372] w\_new= [-0.07609531 0.88812037 2.18797494]

gradient= [-9.97711553e-05 -2.20510971e-05 1.21822252e-04] w = [-0.07609531 0.88812037 2.18797494] w\_new= [-0.07609631 0.88812015 2.18797616]

gradient= [-9.96313511e-05 -2.20228101e-05 1.21654161e-04] w = [-0.07609631 0.88812015 2.18797616] w\_new= [-0.0760973 0.88811993 2.18797738]

gradient= [-9.94917431e-05 -2.19945589e-05 1.21486302e-04] w = [-0.0760973 0.88811993 2.18797738] w\_new= [-0.0760983 0.88811971 2.18797859]

gradient= [-9.93523310e-05 -2.19663434e-05 1.21318674e-04] w = [-0.0760983 0.88811971 2.18797859] w\_new= [-0.07609929 0.88811949 2.18797981]

gradient= [-9.92131145e-05 -2.19381636e-05 1.21151278e-04] w = [-0.07609929 0.88811949 2.18797981] w\_new= [-0.07610028 0.88811927 2.18798102]

gradient= [-9.90740934e-05 -2.19100194e-05 1.20984113e-04] w = [-0.07610028 0.88811927 2.18798102] w\_new= [-0.07610127 0.88811905 2.18798223]

gradient= [-9.89352674e-05 -2.18819108e-05 1.20817178e-04] w = [-0.07610127 0.88811905 2.18798223] w\_new= [-0.07610226 0.88811883 2.18798343]

gradient= [-9.87966363e-05 -2.18538378e-05 1.20650474e-04] w = [-0.07610226 0.88811883 2.18798343] w\_new= [-0.07610325 0.88811861 2.18798464]

gradient= [-9.86581997e-05 -2.18258002e-05 1.20484000e-04] w = [-0.07610325 0.88811861 2.18798464] w\_new= [-0.07610424 0.88811839 2.18798585]

gradient= [-9.85199573e-05 -2.17977981e-05 1.20317755e-04] w = [-0.07610424 0.88811839 2.18798585] w\_new= [-0.07610522 0.88811817 2.18798705]

gradient= [-9.83819090e-05 -2.17698314e-05 1.20151740e-04] w = [-0.07610522 0.88811817 2.18798705] w\_new= [-0.07610621 0.88811796 2.18798825]

gradient= [-9.82440543e-05 -2.17419000e-05 1.19985954e-04] w = [-0.07610621 0.88811796 2.18798825] w\_new= [-0.07610719 0.88811774 2.18798945]

gradient= [-9.81063932e-05 -2.17140040e-05 1.19820397e-04] w = [-0.07610719 0.88811774 2.18798945] w\_new= [-0.07610817 0.88811752 2.18799065]

gradient= [-9.79689252e-05 -2.16861432e-05 1.19655068e-04] w = [-0.07610817 0.88811752 2.18799065] w\_new= [-0.07610915 0.88811731 2.18799185]

gradient= [-9.78316501e-05 -2.16583177e-05 1.19489968e-04] w = [-0.07610915 0.88811731 2.18799185] w\_new= [-0.07611013 0.88811709 2.18799304]

gradient= [-9.76945677e-05 -2.16305274e-05 1.19325095e-04] w = [-0.07611013 0.88811709 2.18799304] w\_new= [-0.07611111 0.88811687 2.18799423]

gradient= [-9.75576776e-05 -2.16027722e-05 1.19160450e-04] w = [-0.07611111 0.88811687 2.18799423] w\_new= [-0.07611208 0.88811666 2.18799543]

gradient= [-9.74209797e-05 -2.15750521e-05 1.18996032e-04] w = [-0.07611208 0.88811666 2.18799543] w\_new= [-0.07611306 0.88811644 2.18799662]

gradient= [-9.72844735e-05 -2.15473670e-05 1.18831841e-04] w = [-0.07611306 0.88811644 2.18799662] w\_new= [-0.07611403 0.88811623 2.1879978 ]

gradient= [-9.71481590e-05 -2.15197170e-05 1.18667876e-04] w = [-0.07611403 0.88811623 2.1879978 ] w\_new= [-0.076115 0.88811601 2.18799899]

gradient= [-9.70120357e-05 -2.14921020e-05 1.18504138e-04] w = [-0.076115 0.88811601 2.18799899] w\_new= [-0.07611597 0.8881158 2.18800018]

gradient= [-9.68761034e-05 -2.14645218e-05 1.18340625e-04] w = [-0.07611597 0.8881158 2.18800018] w\_new= [-0.07611694 0.88811558 2.18800136]

gradient= [-9.67403619e-05 -2.14369766e-05 1.18177338e-04] w = [-0.07611694 0.88811558 2.18800136] w\_new= [-0.07611791 0.88811537 2.18800254]

gradient= [-9.66048109e-05 -2.14094662e-05 1.18014277e-04] w = [-0.07611791 0.88811537 2.18800254] w\_new= [-0.07611887 0.88811515 2.18800372]

gradient= [-9.64694501e-05 -2.13819906e-05 1.17851441e-04] w = [-0.07611887 0.88811515 2.18800372] w\_new= [-0.07611984 0.88811494 2.1880049 ]

gradient= [-9.63342792e-05 -2.13545497e-05 1.17688829e-04] w = [-0.07611984 0.88811494 2.1880049 ] w\_new= [-0.0761208 0.88811472 2.18800608]

gradient= [-9.61992980e-05 -2.13271436e-05 1.17526442e-04] w = [-0.0761208 0.88811472 2.18800608] w\_new= [-0.07612176 0.88811451 2.18800725]

gradient= [-9.60645062e-05 -2.12997721e-05 1.17364278e-04] w = [-0.07612176 0.88811451 2.18800725] w\_new= [-0.07612272 0.8881143 2.18800842]

gradient= [-9.59299036e-05 -2.12724352e-05 1.17202339e-04] w = [-0.07612272 0.8881143 2.18800842] w\_new= [-0.07612368 0.88811409 2.1880096 ]

gradient= [-9.57954899e-05 -2.12451330e-05 1.17040623e-04] w = [-0.07612368 0.88811409 2.1880096 ] w\_new= [-0.07612464 0.88811387 2.18801077]

gradient= [-9.56612648e-05 -2.12178652e-05 1.16879130e-04] w = [-0.07612464 0.88811387 2.18801077] w\_new= [-0.0761256 0.88811366 2.18801194]

gradient= [-9.5527228e-05 -2.1190632e-05 1.1671786e-04] w = [-0.0761256 0.88811366 2.18801194] w\_new= [-0.07612655 0.88811345 2.1880131 ]

gradient= [-9.53933793e-05 -2.11634332e-05 1.16556813e-04] w = [-0.07612655 0.88811345 2.1880131 ] w\_new= [-0.07612751 0.88811324 2.18801427]

gradient= [-9.52597185e-05 -2.11362688e-05 1.16395987e-04] w = [-0.07612751 0.88811324 2.18801427] w\_new= [-0.07612846 0.88811303 2.18801543]

gradient= [-9.51262452e-05 -2.11091388e-05 1.16235384e-04] w = [-0.07612846 0.88811303 2.18801543] w\_new= [-0.07612941 0.88811282 2.1880166 ]

gradient= [-9.49929592e-05 -2.10820431e-05 1.16075002e-04] w = [-0.07612941 0.88811282 2.1880166 ] w\_new= [-0.07613036 0.8881126 2.18801776]

gradient= [-9.48598602e-05 -2.10549817e-05 1.15914842e-04] w = [-0.07613036 0.8881126 2.18801776] w\_new= [-0.07613131 0.88811239 2.18801892]

gradient= [-9.47269480e-05 -2.10279545e-05 1.15754903e-04] w = [-0.07613131 0.88811239 2.18801892] w\_new= [-0.07613226 0.88811218 2.18802007]

gradient= [-9.45942223e-05 -2.10009615e-05 1.15595184e-04] w = [-0.07613226 0.88811218 2.18802007] w\_new= [-0.0761332 0.88811197 2.18802123]

gradient= [-9.44616829e-05 -2.09740027e-05 1.15435686e-04] w = [-0.0761332 0.88811197 2.18802123] w\_new= [-0.07613415 0.88811176 2.18802238]

gradient= [-9.43293294e-05 -2.09470780e-05 1.15276407e-04] w = [-0.07613415 0.88811176 2.18802238] w\_new= [-0.07613509 0.88811155 2.18802354]

gradient= [-9.41971616e-05 -2.09201874e-05 1.15117349e-04] w = [-0.07613509 0.88811155 2.18802354] w\_new= [-0.07613603 0.88811135 2.18802469]

gradient= [-9.40651793e-05 -2.08933307e-05 1.14958510e-04] w = [-0.07613603 0.88811135 2.18802469] w\_new= [-0.07613697 0.88811114 2.18802584]

gradient= [-9.39333823e-05 -2.08665081e-05 1.14799890e-04] w = [-0.07613697 0.88811114 2.18802584] w\_new= [-0.07613791 0.88811093 2.18802698]

gradient= [-9.38017701e-05 -2.08397194e-05 1.14641490e-04] w = [-0.07613791 0.88811093 2.18802698] w\_new= [-0.07613885 0.88811072 2.18802813]

gradient= [-9.36703426e-05 -2.08129646e-05 1.14483307e-04] w = [-0.07613885 0.88811072 2.18802813] w\_new= [-0.07613979 0.88811051 2.18802928]

gradient= [-9.35390996e-05 -2.07862437e-05 1.14325343e-04] w = [-0.07613979 0.88811051 2.18802928] w\_new= [-0.07614072 0.8881103 2.18803042]

gradient= [-9.34080407e-05 -2.07595566e-05 1.14167597e-04] w = [-0.07614072 0.8881103 2.18803042] w\_new= [-0.07614166 0.8881101 2.18803156]

gradient= [-9.32771657e-05 -2.07329032e-05 1.14010069e-04] w = [-0.07614166 0.8881101 2.18803156] w\_new= [-0.07614259 0.88810989 2.1880327 ]

gradient= [-9.31464743e-05 -2.07062836e-05 1.13852758e-04] w = [-0.07614259 0.88810989 2.1880327 ] w\_new= [-0.07614352 0.88810968 2.18803384]

gradient= [-9.30159664e-05 -2.06796977e-05 1.13695664e-04] w = [-0.07614352 0.88810968 2.18803384] w\_new= [-0.07614445 0.88810947 2.18803498]

gradient= [-9.28856415e-05 -2.06531454e-05 1.13538787e-04] w = [-0.07614445 0.88810947 2.18803498] w\_new= [-0.07614538 0.88810927 2.18803611]

gradient= [-9.27554995e-05 -2.06266268e-05 1.13382126e-04] w = [-0.07614538 0.88810927 2.18803611] w\_new= [-0.07614631 0.88810906 2.18803725]

gradient= [-9.26255402e-05 -2.06001417e-05 1.13225682e-04] w = [-0.07614631 0.88810906 2.18803725] w\_new= [-0.07614723 0.88810886 2.18803838]

gradient= [-9.24957632e-05 -2.05736901e-05 1.13069453e-04] w = [-0.07614723 0.88810886 2.18803838] w\_new= [-0.07614816 0.88810865 2.18803951]

gradient= [-9.23661683e-05 -2.05472720e-05 1.12913440e-04] w = [-0.07614816 0.88810865 2.18803951] w\_new= [-0.07614908 0.88810844 2.18804064]

gradient= [-9.22367552e-05 -2.05208873e-05 1.12757643e-04] w = [-0.07614908 0.88810844 2.18804064] w\_new= [-0.07615 0.88810824 2.18804177]

gradient= [-9.21075237e-05 -2.04945361e-05 1.12602060e-04] w = [-0.07615 0.88810824 2.18804177] w\_new= [-0.07615093 0.88810803 2.18804289]

gradient= [-9.19784736e-05 -2.04682182e-05 1.12446692e-04] w = [-0.07615093 0.88810803 2.18804289] w\_new= [-0.07615185 0.88810783 2.18804402]

gradient= [-9.18496045e-05 -2.04419336e-05 1.12291538e-04] w = [-0.07615185 0.88810783 2.18804402] w\_new= [-0.07615276 0.88810763 2.18804514]

gradient= [-9.17209162e-05 -2.04156822e-05 1.12136598e-04] w = [-0.07615276 0.88810763 2.18804514] w\_new= [-0.07615368 0.88810742 2.18804626]

gradient= [-9.15924086e-05 -2.03894642e-05 1.11981873e-04] w = [-0.07615368 0.88810742 2.18804626] w\_new= [-0.0761546 0.88810722 2.18804738]

gradient= [-9.14640812e-05 -2.03632793e-05 1.11827360e-04] w = [-0.0761546 0.88810722 2.18804738] w\_new= [-0.07615551 0.88810701 2.1880485 ]

gradient= [-9.13359339e-05 -2.03371275e-05 1.11673061e-04] w = [-0.07615551 0.88810701 2.1880485 ] w\_new= [-0.07615642 0.88810681 2.18804961]

gradient= [-9.12079664e-05 -2.03110089e-05 1.11518975e-04] w = [-0.07615642 0.88810681 2.18804961] w\_new= [-0.07615734 0.88810661 2.18805073]

gradient= [-9.10801784e-05 -2.02849233e-05 1.11365102e-04] w = [-0.07615734 0.88810661 2.18805073] w\_new= [-0.07615825 0.8881064 2.18805184]

gradient= [-9.09525698e-05 -2.02588708e-05 1.11211441e-04] w = [-0.07615825 0.8881064 2.18805184] w\_new= [-0.07615916 0.8881062 2.18805296]

gradient= [-9.08251402e-05 -2.02328512e-05 1.11057991e-04] w = [-0.07615916 0.8881062 2.18805296] w\_new= [-0.07616007 0.888106 2.18805407]

gradient= [-9.06978894e-05 -2.02068646e-05 1.10904754e-04] w = [-0.07616007 0.888106 2.18805407] w\_new= [-0.07616097 0.8881058 2.18805518]

gradient= [-9.05708171e-05 -2.01809109e-05 1.10751728e-04] w = [-0.07616097 0.8881058 2.18805518] w\_new= [-0.07616188 0.8881056 2.18805628]

gradient= [-9.04439232e-05 -2.01549900e-05 1.10598913e-04] w = [-0.07616188 0.8881056 2.18805628] w\_new= [-0.07616278 0.88810539 2.18805739]

gradient= [-9.03172073e-05 -2.01291020e-05 1.10446309e-04] w = [-0.07616278 0.88810539 2.18805739] w\_new= [-0.07616369 0.88810519 2.18805849]

gradient= [-9.01906692e-05 -2.01032467e-05 1.10293916e-04] w = [-0.07616369 0.88810519 2.18805849] w\_new= [-0.07616459 0.88810499 2.1880596 ]

gradient= [-9.00643086e-05 -2.00774242e-05 1.10141733e-04] w = [-0.07616459 0.88810499 2.1880596 ] w\_new= [-0.07616549 0.88810479 2.1880607 ]

gradient= [-8.99381253e-05 -2.00516344e-05 1.09989760e-04] w = [-0.07616549 0.88810479 2.1880607 ] w\_new= [-0.07616639 0.88810459 2.1880618 ]

gradient= [-8.98121191e-05 -2.00258773e-05 1.09837996e-04] w = [-0.07616639 0.88810459 2.1880618 ] w\_new= [-0.07616729 0.88810439 2.1880629 ]

gradient= [-8.96862897e-05 -2.00001527e-05 1.09686442e-04] w = [-0.07616729 0.88810439 2.1880629 ] w\_new= [-0.07616818 0.88810419 2.18806399]

gradient= [-8.95606368e-05 -1.99744608e-05 1.09535098e-04] w = [-0.07616818 0.88810419 2.18806399] w\_new= [-0.07616908 0.88810399 2.18806509]

gradient= [-8.94351602e-05 -1.99488013e-05 1.09383962e-04] w = [-0.07616908 0.88810399 2.18806509] w\_new= [-0.07616997 0.88810379 2.18806618]

gradient= [-8.93098597e-05 -1.99231744e-05 1.09233034e-04] w = [-0.07616997 0.88810379 2.18806618] w\_new= [-0.07617087 0.88810359 2.18806727]

gradient= [-8.91847350e-05 -1.98975799e-05 1.09082315e-04] w = [-0.07617087 0.88810359 2.18806727] w\_new= [-0.07617176 0.88810339 2.18806837]

gradient= [-8.90597858e-05 -1.98720179e-05 1.08931804e-04] w = [-0.07617176 0.88810339 2.18806837] w\_new= [-0.07617265 0.88810319 2.18806945]

gradient= [-8.89350120e-05 -1.98464882e-05 1.08781500e-04] w = [-0.07617265 0.88810319 2.18806945] w\_new= [-0.07617354 0.888103 2.18807054]

gradient= [-8.88104132e-05 -1.98209909e-05 1.08631404e-04] w = [-0.07617354 0.888103 2.18807054] w\_new= [-0.07617443 0.8881028 2.18807163]

gradient= [-8.86859892e-05 -1.97955258e-05 1.08481515e-04] w = [-0.07617443 0.8881028 2.18807163] w\_new= [-0.07617531 0.8881026 2.18807271]

gradient= [-8.85617398e-05 -1.97700930e-05 1.08331833e-04] w = [-0.07617531 0.8881026 2.18807271] w\_new= [-0.0761762 0.8881024 2.1880738]

gradient= [-8.84376647e-05 -1.97446924e-05 1.08182357e-04] w = [-0.0761762 0.8881024 2.1880738] w\_new= [-0.07617708 0.8881022 2.18807488]

gradient= [-8.83137638e-05 -1.97193240e-05 1.08033088e-04] w = [-0.07617708 0.8881022 2.18807488] w\_new= [-0.07617797 0.88810201 2.18807596]

gradient= [-8.81900366e-05 -1.96939877e-05 1.07884024e-04] w = [-0.07617797 0.88810201 2.18807596] w\_new= [-0.07617885 0.88810181 2.18807704]

gradient= [-8.80664831e-05 -1.96686836e-05 1.07735167e-04] w = [-0.07617885 0.88810181 2.18807704] w\_new= [-0.07617973 0.88810161 2.18807812]

gradient= [-8.79431029e-05 -1.96434114e-05 1.07586514e-04] w = [-0.07617973 0.88810161 2.18807812] w\_new= [-0.07618061 0.88810142 2.18807919]

gradient= [-8.78198958e-05 -1.96181713e-05 1.07438067e-04] w = [-0.07618061 0.88810142 2.18807919] w\_new= [-0.07618149 0.88810122 2.18808027]

gradient= [-8.76968615e-05 -1.95929632e-05 1.07289825e-04] w = [-0.07618149 0.88810122 2.18808027] w\_new= [-0.07618236 0.88810102 2.18808134]

gradient= [-8.75739999e-05 -1.95677870e-05 1.07141787e-04] w = [-0.07618236 0.88810102 2.18808134] w\_new= [-0.07618324 0.88810083 2.18808241]

gradient= [-8.74513107e-05 -1.95426427e-05 1.06993953e-04] w = [-0.07618324 0.88810083 2.18808241] w\_new= [-0.07618411 0.88810063 2.18808348]

gradient= [-8.73287936e-05 -1.95175302e-05 1.06846324e-04] w = [-0.07618411 0.88810063 2.18808348] w\_new= [-0.07618499 0.88810044 2.18808455]

gradient= [-8.72064484e-05 -1.94924496e-05 1.06698898e-04] w = [-0.07618499 0.88810044 2.18808455] w\_new= [-0.07618586 0.88810024 2.18808561]

gradient= [-8.70842748e-05 -1.94674007e-05 1.06551676e-04] w = [-0.07618586 0.88810024 2.18808561] w\_new= [-0.07618673 0.88810005 2.18808668]

gradient= [-8.69622727e-05 -1.94423836e-05 1.06404656e-04] w = [-0.07618673 0.88810005 2.18808668] w\_new= [-0.0761876 0.88809985 2.18808774]

gradient= [-8.68404417e-05 -1.94173982e-05 1.06257840e-04] w = [-0.0761876 0.88809985 2.18808774] w\_new= [-0.07618847 0.88809966 2.18808881]

gradient= [-8.67187817e-05 -1.93924444e-05 1.06111226e-04] w = [-0.07618847 0.88809966 2.18808881] w\_new= [-0.07618933 0.88809947 2.18808987]

gradient= [-8.65972923e-05 -1.93675223e-05 1.05964815e-04] w = [-0.07618933 0.88809947 2.18808987] w\_new= [-0.0761902 0.88809927 2.18809093]

gradient= [-8.64759734e-05 -1.93426317e-05 1.05818605e-04] w = [-0.0761902 0.88809927 2.18809093] w\_new= [-0.07619107 0.88809908 2.18809199]

gradient= [-8.63548247e-05 -1.93177726e-05 1.05672597e-04] w = [-0.07619107 0.88809908 2.18809199] w\_new= [-0.07619193 0.88809889 2.18809304]

gradient= [-8.62338460e-05 -1.92929451e-05 1.05526791e-04] w = [-0.07619193 0.88809889 2.18809304] w\_new= [-0.07619279 0.88809869 2.1880941 ]

gradient= [-8.61130370e-05 -1.92681490e-05 1.05381186e-04] w = [-0.07619279 0.88809869 2.1880941 ] w\_new= [-0.07619365 0.8880985 2.18809515]

gradient= [-8.59923974e-05 -1.92433844e-05 1.05235782e-04] w = [-0.07619365 0.8880985 2.18809515] w\_new= [-0.07619451 0.88809831 2.1880962 ]

gradient= [-8.58719272e-05 -1.92186511e-05 1.05090578e-04] w = [-0.07619451 0.88809831 2.1880962 ] w\_new= [-0.07619537 0.88809812 2.18809726]

gradient= [-8.57516259e-05 -1.91939492e-05 1.04945575e-04] w = [-0.07619537 0.88809812 2.18809726] w\_new= [-0.07619623 0.88809792 2.1880983 ]

gradient= [-8.56314935e-05 -1.91692786e-05 1.04800772e-04] w = [-0.07619623 0.88809792 2.1880983 ] w\_new= [-0.07619708 0.88809773 2.18809935]

gradient= [-8.55115296e-05 -1.91446392e-05 1.04656169e-04] w = [-0.07619708 0.88809773 2.18809935] w\_new= [-0.07619794 0.88809754 2.1881004 ]

gradient= [-8.53917339e-05 -1.91200311e-05 1.04511765e-04] w = [-0.07619794 0.88809754 2.1881004 ] w\_new= [-0.07619879 0.88809735 2.18810144]

gradient= [-8.52721064e-05 -1.90954542e-05 1.04367561e-04] w = [-0.07619879 0.88809735 2.18810144] w\_new= [-0.07619965 0.88809716 2.18810249]

gradient= [-8.51526467e-05 -1.90709084e-05 1.04223555e-04] w = [-0.07619965 0.88809716 2.18810249] w\_new= [-0.0762005 0.88809697 2.18810353]

gradient= [-8.50333546e-05 -1.90463937e-05 1.04079748e-04] w = [-0.0762005 0.88809697 2.18810353] w\_new= [-0.07620135 0.88809678 2.18810457]

gradient= [-8.49142298e-05 -1.90219101e-05 1.03936140e-04] w = [-0.07620135 0.88809678 2.18810457] w\_new= [-0.0762022 0.88809659 2.18810561]

gradient= [-8.47952722e-05 -1.89974575e-05 1.03792730e-04] w = [-0.0762022 0.88809659 2.18810561] w\_new= [-0.07620305 0.8880964 2.18810665]

gradient= [-8.46764814e-05 -1.89730359e-05 1.03649517e-04] w = [-0.07620305 0.8880964 2.18810665] w\_new= [-0.07620389 0.88809621 2.18810768]

gradient= [-8.45578573e-05 -1.89486453e-05 1.03506503e-04] w = [-0.07620389 0.88809621 2.18810768] w\_new= [-0.07620474 0.88809602 2.18810872]

gradient= [-8.44393996e-05 -1.89242856e-05 1.03363685e-04] w = [-0.07620474 0.88809602 2.18810872] w\_new= [-0.07620558 0.88809583 2.18810975]

gradient= [-8.43211082e-05 -1.88999568e-05 1.03221065e-04] w = [-0.07620558 0.88809583 2.18810975] w\_new= [-0.07620643 0.88809564 2.18811079]

gradient= [-8.42029826e-05 -1.88756588e-05 1.03078641e-04] w = [-0.07620643 0.88809564 2.18811079] w\_new= [-0.07620727 0.88809545 2.18811182]

gradient= [-8.40850228e-05 -1.88513916e-05 1.02936414e-04] w = [-0.07620727 0.88809545 2.18811182] w\_new= [-0.07620811 0.88809526 2.18811285]

gradient= [-8.39672285e-05 -1.88271552e-05 1.02794384e-04] w = [-0.07620811 0.88809526 2.18811285] w\_new= [-0.07620895 0.88809507 2.18811387]

gradient= [-8.38495994e-05 -1.88029495e-05 1.02652549e-04] w = [-0.07620895 0.88809507 2.18811387] w\_new= [-0.07620979 0.88809489 2.1881149 ]

gradient= [-8.37321354e-05 -1.87787745e-05 1.02510910e-04] w = [-0.07620979 0.88809489 2.1881149 ] w\_new= [-0.07621062 0.8880947 2.18811593]

gradient= [-8.36148361e-05 -1.87546301e-05 1.02369466e-04] w = [-0.07621062 0.8880947 2.18811593] w\_new= [-0.07621146 0.88809451 2.18811695]

gradient= [-8.34977014e-05 -1.87305164e-05 1.02228218e-04] w = [-0.07621146 0.88809451 2.18811695] w\_new= [-0.07621229 0.88809432 2.18811797]

gradient= [-8.33807310e-05 -1.87064332e-05 1.02087164e-04] w = [-0.07621229 0.88809432 2.18811797] w\_new= [-0.07621313 0.88809414 2.18811899]

gradient= [-8.32639248e-05 -1.86823806e-05 1.01946305e-04] w = [-0.07621313 0.88809414 2.18811899] w\_new= [-0.07621396 0.88809395 2.18812001]

gradient= [-8.31472824e-05 -1.86583584e-05 1.01805641e-04] w = [-0.07621396 0.88809395 2.18812001] w\_new= [-0.07621479 0.88809376 2.18812103]

gradient= [-8.30308036e-05 -1.86343667e-05 1.01665170e-04] w = [-0.07621479 0.88809376 2.18812103] w\_new= [-0.07621562 0.88809358 2.18812205]

gradient= [-8.29144882e-05 -1.86104055e-05 1.01524894e-04] w = [-0.07621562 0.88809358 2.18812205] w\_new= [-0.07621645 0.88809339 2.18812306]

gradient= [-8.27983360e-05 -1.85864746e-05 1.01384811e-04] w = [-0.07621645 0.88809339 2.18812306] w\_new= [-0.07621728 0.8880932 2.18812408]

gradient= [-8.26823468e-05 -1.85625740e-05 1.01244921e-04] w = [-0.07621728 0.8880932 2.18812408] w\_new= [-0.07621811 0.88809302 2.18812509]

gradient= [-8.25665203e-05 -1.85387038e-05 1.01105224e-04] w = [-0.07621811 0.88809302 2.18812509] w\_new= [-0.07621893 0.88809283 2.1881261 ]

gradient= [-8.24508562e-05 -1.85148638e-05 1.00965720e-04] w = [-0.07621893 0.88809283 2.1881261 ] w\_new= [-0.07621976 0.88809265 2.18812711]

gradient= [-8.23353545e-05 -1.84910541e-05 1.00826409e-04] w = [-0.07621976 0.88809265 2.18812711] w\_new= [-0.07622058 0.88809246 2.18812812]

gradient= [-8.22200147e-05 -1.84672746e-05 1.00687289e-04] w = [-0.07622058 0.88809246 2.18812812] w\_new= [-0.0762214 0.88809228 2.18812912]

gradient= [-8.21048368e-05 -1.84435252e-05 1.00548362e-04] w = [-0.0762214 0.88809228 2.18812912] w\_new= [-0.07622222 0.88809209 2.18813013]

gradient= [-8.19898204e-05 -1.84198059e-05 1.00409626e-04] w = [-0.07622222 0.88809209 2.18813013] w\_new= [-0.07622304 0.88809191 2.18813113]

gradient= [-8.18749654e-05 -1.83961167e-05 1.00271082e-04] w = [-0.07622304 0.88809191 2.18813113] w\_new= [-0.07622386 0.88809173 2.18813214]

gradient= [-8.17602715e-05 -1.83724576e-05 1.00132729e-04] w = [-0.07622386 0.88809173 2.18813214] w\_new= [-0.07622468 0.88809154 2.18813314]

gradient= [-8.16457385e-05 -1.83488285e-05 9.99945670e-05] w = [-0.07622468 0.88809154 2.18813314] w\_new= [-0.0762255 0.88809136 2.18813414]

gradient= [-8.15313662e-05 -1.83252293e-05 9.98565955e-05] w = [-0.0762255 0.88809136 2.18813414] w\_new= [-0.07622631 0.88809118 2.18813514]

gradient= [-8.14171544e-05 -1.83016601e-05 9.97188144e-05] w = [-0.07622631 0.88809118 2.18813514] w\_new= [-0.07622713 0.88809099 2.18813613]

gradient= [-8.13031027e-05 -1.82781207e-05 9.95812234e-05] w = [-0.07622713 0.88809099 2.18813613] w\_new= [-0.07622794 0.88809081 2.18813713]

gradient= [-8.11892111e-05 -1.82546112e-05 9.94438223e-05] w = [-0.07622794 0.88809081 2.18813713] w\_new= [-0.07622875 0.88809063 2.18813812]

gradient= [-8.10754792e-05 -1.82311316e-05 9.93066107e-05] w = [-0.07622875 0.88809063 2.18813812] w\_new= [-0.07622956 0.88809045 2.18813912]

gradient= [-8.09619068e-05 -1.82076817e-05 9.91695885e-05] w = [-0.07622956 0.88809045 2.18813912] w\_new= [-0.07623037 0.88809026 2.18814011]

gradient= [-8.08484938e-05 -1.81842616e-05 9.90327554e-05] w = [-0.07623037 0.88809026 2.18814011] w\_new= [-0.07623118 0.88809008 2.1881411 ]

gradient= [-8.07352399e-05 -1.81608711e-05 9.88961110e-05] w = [-0.07623118 0.88809008 2.1881411 ] w\_new= [-0.07623199 0.8880899 2.18814209]

gradient= [-8.06221448e-05 -1.81375104e-05 9.87596552e-05] w = [-0.07623199 0.8880899 2.18814209] w\_new= [-0.07623279 0.88808972 2.18814308]

gradient= [-8.05092084e-05 -1.81141793e-05 9.86233877e-05] w = [-0.07623279 0.88808972 2.18814308] w\_new= [-0.0762336 0.88808954 2.18814406]

gradient= [-8.03964305e-05 -1.80908777e-05 9.84873082e-05] w = [-0.0762336 0.88808954 2.18814406] w\_new= [-0.0762344 0.88808936 2.18814505]

gradient= [-8.02838107e-05 -1.80676058e-05 9.83514165e-05] w = [-0.0762344 0.88808936 2.18814505] w\_new= [-0.07623521 0.88808918 2.18814603]

gradient= [-8.01713489e-05 -1.80443633e-05 9.82157122e-05] w = [-0.07623521 0.88808918 2.18814603] w\_new= [-0.07623601 0.888089 2.18814701]

gradient= [-8.00590449e-05 -1.80211504e-05 9.80801953e-05] w = [-0.07623601 0.888089 2.18814701] w\_new= [-0.07623681 0.88808881 2.18814799]

gradient= [-7.99468984e-05 -1.79979669e-05 9.79448653e-05] w = [-0.07623681 0.88808881 2.18814799] w\_new= [-0.07623761 0.88808863 2.18814897]

gradient= [-7.98349092e-05 -1.79748128e-05 9.78097220e-05] w = [-0.07623761 0.88808863 2.18814897] w\_new= [-0.07623841 0.88808846 2.18814995]

gradient= [-7.97230772e-05 -1.79516881e-05 9.76747652e-05] w = [-0.07623841 0.88808846 2.18814995] w\_new= [-0.0762392 0.88808828 2.18815093]

gradient= [-7.96114020e-05 -1.79285927e-05 9.75399947e-05] w = [-0.0762392 0.88808828 2.18815093] w\_new= [-0.07624 0.8880881 2.1881519]

gradient= [-7.94998834e-05 -1.79055266e-05 9.74054101e-05] w = [-0.07624 0.8880881 2.1881519] w\_new= [-0.07624079 0.88808792 2.18815288]

gradient= [-7.93885213e-05 -1.78824898e-05 9.72710111e-05] w = [-0.07624079 0.88808792 2.18815288] w\_new= [-0.07624159 0.88808774 2.18815385]

gradient= [-7.92773154e-05 -1.78594823e-05 9.71367977e-05] w = [-0.07624159 0.88808774 2.18815385] w\_new= [-0.07624238 0.88808756 2.18815482]

gradient= [-7.91662655e-05 -1.78365039e-05 9.70027694e-05] w = [-0.07624238 0.88808756 2.18815482] w\_new= [-0.07624317 0.88808738 2.18815579]

gradient= [-7.90553714e-05 -1.78135547e-05 9.68689261e-05] w = [-0.07624317 0.88808738 2.18815579] w\_new= [-0.07624396 0.8880872 2.18815676]

gradient= [-7.89446328e-05 -1.77906346e-05 9.67352674e-05] w = [-0.07624396 0.8880872 2.18815676] w\_new= [-0.07624475 0.88808703 2.18815773]

gradient= [-7.88340496e-05 -1.77677436e-05 9.66017932e-05] w = [-0.07624475 0.88808703 2.18815773] w\_new= [-0.07624554 0.88808685 2.18815869]

gradient= [-7.87236215e-05 -1.77448816e-05 9.64685031e-05] w = [-0.07624554 0.88808685 2.18815869] w\_new= [-0.07624633 0.88808667 2.18815966]

gradient= [-7.86133483e-05 -1.77220486e-05 9.63353970e-05] w = [-0.07624633 0.88808667 2.18815966] w\_new= [-0.07624711 0.88808649 2.18816062]

gradient= [-7.85032298e-05 -1.76992447e-05 9.62024745e-05] w = [-0.07624711 0.88808649 2.18816062] w\_new= [-0.0762479 0.88808632 2.18816158]

gradient= [-7.83932658e-05 -1.76764696e-05 9.60697354e-05] w = [-0.0762479 0.88808632 2.18816158] w\_new= [-0.07624868 0.88808614 2.18816254]

gradient= [-7.82834560e-05 -1.76537235e-05 9.59371795e-05] w = [-0.07624868 0.88808614 2.18816254] w\_new= [-0.07624947 0.88808596 2.1881635 ]

gradient= [-7.81738002e-05 -1.76310062e-05 9.58048064e-05] w = [-0.07624947 0.88808596 2.1881635 ] w\_new= [-0.07625025 0.88808579 2.18816446]

gradient= [-7.80642982e-05 -1.76083178e-05 9.56726161e-05] w = [-0.07625025 0.88808579 2.18816446] w\_new= [-0.07625103 0.88808561 2.18816542]

gradient= [-7.79549499e-05 -1.75856582e-05 9.55406081e-05] w = [-0.07625103 0.88808561 2.18816542] w\_new= [-0.07625181 0.88808543 2.18816637]

gradient= [-7.78457549e-05 -1.75630273e-05 9.54087822e-05] w = [-0.07625181 0.88808543 2.18816637] w\_new= [-0.07625259 0.88808526 2.18816733]

gradient= [-7.77367131e-05 -1.75404252e-05 9.52771383e-05] w = [-0.07625259 0.88808526 2.18816733] w\_new= [-0.07625336 0.88808508 2.18816828]

gradient= [-7.76278243e-05 -1.75178517e-05 9.51456760e-05] w = [-0.07625336 0.88808508 2.18816828] w\_new= [-0.07625414 0.88808491 2.18816923]

gradient= [-7.75190882e-05 -1.74953069e-05 9.50143951e-05] w = [-0.07625414 0.88808491 2.18816923] w\_new= [-0.07625491 0.88808473 2.18817018]

gradient= [-7.74105046e-05 -1.74727907e-05 9.48832953e-05] w = [-0.07625491 0.88808473 2.18817018] w\_new= [-0.07625569 0.88808456 2.18817113]

gradient= [-7.73020734e-05 -1.74503031e-05 9.47523765e-05] w = [-0.07625569 0.88808456 2.18817113] w\_new= [-0.07625646 0.88808438 2.18817208]

gradient= [-7.71937942e-05 -1.74278440e-05 9.46216382e-05] w = [-0.07625646 0.88808438 2.18817208] w\_new= [-0.07625723 0.88808421 2.18817302]

gradient= [-7.70856669e-05 -1.74054135e-05 9.44910804e-05] w = [-0.07625723 0.88808421 2.18817302] w\_new= [-0.076258 0.88808404 2.18817397]

gradient= [-7.69776913e-05 -1.73830114e-05 9.43607027e-05] w = [-0.076258 0.88808404 2.18817397] w\_new= [-0.07625877 0.88808386 2.18817491]

gradient= [-7.68698672e-05 -1.73606378e-05 9.42305049e-05] w = [-0.07625877 0.88808386 2.18817491] w\_new= [-0.07625954 0.88808369 2.18817585]

gradient= [-7.67621942e-05 -1.73382925e-05 9.41004868e-05] w = [-0.07625954 0.88808369 2.18817585] w\_new= [-0.07626031 0.88808351 2.1881768 ]

gradient= [-7.66546724e-05 -1.73159757e-05 9.39706480e-05] w = [-0.07626031 0.88808351 2.1881768 ] w\_new= [-0.07626108 0.88808334 2.18817774]

gradient= [-7.65473013e-05 -1.72936871e-05 9.38409884e-05] w = [-0.07626108 0.88808334 2.18817774] w\_new= [-0.07626184 0.88808317 2.18817867]

gradient= [-7.64400808e-05 -1.72714269e-05 9.37115077e-05] w = [-0.07626184 0.88808317 2.18817867] w\_new= [-0.07626261 0.888083 2.18817961]

gradient= [-7.63330108e-05 -1.72491949e-05 9.35822057e-05] w = [-0.07626261 0.888083 2.18817961] w\_new= [-0.07626337 0.88808282 2.18818055]

gradient= [-7.62260909e-05 -1.72269912e-05 9.34530821e-05] w = [-0.07626337 0.88808282 2.18818055] w\_new= [-0.07626413 0.88808265 2.18818148]

gradient= [-7.61193210e-05 -1.72048156e-05 9.33241366e-05] w = [-0.07626413 0.88808265 2.18818148] w\_new= [-0.07626489 0.88808248 2.18818241]

gradient= [-7.60127008e-05 -1.71826682e-05 9.31953690e-05] w = [-0.07626489 0.88808248 2.18818241] w\_new= [-0.07626565 0.88808231 2.18818335]

gradient= [-7.59062302e-05 -1.71605489e-05 9.30667792e-05] w = [-0.07626565 0.88808231 2.18818335] w\_new= [-0.07626641 0.88808214 2.18818428]

gradient= [-7.57999090e-05 -1.71384577e-05 9.29383667e-05] w = [-0.07626641 0.88808214 2.18818428] w\_new= [-0.07626717 0.88808196 2.18818521]

gradient= [-7.56937369e-05 -1.71163946e-05 9.28101315e-05] w = [-0.07626717 0.88808196 2.18818521] w\_new= [-0.07626793 0.88808179 2.18818613]

gradient= [-7.55877137e-05 -1.70943595e-05 9.26820731e-05] w = [-0.07626793 0.88808179 2.18818613] w\_new= [-0.07626868 0.88808162 2.18818706]

gradient= [-7.54818392e-05 -1.70723523e-05 9.25541915e-05] w = [-0.07626868 0.88808162 2.18818706] w\_new= [-0.07626944 0.88808145 2.18818799]

gradient= [-7.53761132e-05 -1.70503731e-05 9.24264863e-05] w = [-0.07626944 0.88808145 2.18818799] w\_new= [-0.07627019 0.88808128 2.18818891]

gradient= [-7.52705355e-05 -1.70284218e-05 9.22989574e-05] w = [-0.07627019 0.88808128 2.18818891] w\_new= [-0.07627095 0.88808111 2.18818983]

gradient= [-7.51651059e-05 -1.70064984e-05 9.21716044e-05] w = [-0.07627095 0.88808111 2.18818983] w\_new= [-0.0762717 0.88808094 2.18819076]

gradient= [-7.50598242e-05 -1.69846029e-05 9.20444271e-05] w = [-0.0762717 0.88808094 2.18819076] w\_new= [-0.07627245 0.88808077 2.18819168]

gradient= [-7.49546902e-05 -1.69627351e-05 9.19174253e-05] w = [-0.07627245 0.88808077 2.18819168] w\_new= [-0.0762732 0.8880806 2.1881926]

gradient= [-7.48497036e-05 -1.69408951e-05 9.17905987e-05] w = [-0.0762732 0.8880806 2.1881926] w\_new= [-0.07627395 0.88808043 2.18819351]

gradient= [-7.47448642e-05 -1.69190829e-05 9.16639471e-05] w = [-0.07627395 0.88808043 2.18819351] w\_new= [-0.07627469 0.88808026 2.18819443]

gradient= [-7.46401720e-05 -1.68972983e-05 9.15374703e-05] w = [-0.07627469 0.88808026 2.18819443] w\_new= [-0.07627544 0.88808009 2.18819535]

gradient= [-7.45356265e-05 -1.68755414e-05 9.14111679e-05] w = [-0.07627544 0.88808009 2.18819535] w\_new= [-0.07627618 0.88807993 2.18819626]

gradient= [-7.44312277e-05 -1.68538122e-05 9.12850399e-05] w = [-0.07627618 0.88807993 2.18819626] w\_new= [-0.07627693 0.88807976 2.18819717]

gradient= [-7.43269754e-05 -1.68321105e-05 9.11590859e-05] w = [-0.07627693 0.88807976 2.18819717] w\_new= [-0.07627767 0.88807959 2.18819808]

gradient= [-7.42228692e-05 -1.68104365e-05 9.10333057e-05] w = [-0.07627767 0.88807959 2.18819808] w\_new= [-0.07627841 0.88807942 2.18819899]

gradient= [-7.41189091e-05 -1.67887899e-05 9.09076990e-05] w = [-0.07627841 0.88807942 2.18819899] w\_new= [-0.07627916 0.88807925 2.1881999 ]

gradient= [-7.40150948e-05 -1.67671708e-05 9.07822656e-05] w = [-0.07627916 0.88807925 2.1881999 ] w\_new= [-0.0762799 0.88807908 2.18820081]

gradient= [-7.39114261e-05 -1.67455793e-05 9.06570053e-05] w = [-0.0762799 0.88807908 2.18820081] w\_new= [-0.07628063 0.88807892 2.18820172]

gradient= [-7.38079028e-05 -1.67240151e-05 9.05319178e-05] w = [-0.07628063 0.88807892 2.18820172] w\_new= [-0.07628137 0.88807875 2.18820262]

gradient= [-7.37045247e-05 -1.67024783e-05 9.04070030e-05] w = [-0.07628137 0.88807875 2.18820262] w\_new= [-0.07628211 0.88807858 2.18820353]

gradient= [-7.36012916e-05 -1.66809689e-05 9.02822605e-05] w = [-0.07628211 0.88807858 2.18820353] w\_new= [-0.07628285 0.88807842 2.18820443]

gradient= [-7.34982032e-05 -1.66594868e-05 9.01576901e-05] w = [-0.07628285 0.88807842 2.18820443] w\_new= [-0.07628358 0.88807825 2.18820533]

gradient= [-7.33952595e-05 -1.66380320e-05 9.00332915e-05] w = [-0.07628358 0.88807825 2.18820533] w\_new= [-0.07628431 0.88807808 2.18820623]

gradient= [-7.32924602e-05 -1.66166045e-05 8.99090647e-05] w = [-0.07628431 0.88807808 2.18820623] w\_new= [-0.07628505 0.88807792 2.18820713]

gradient= [-7.31898050e-05 -1.65952042e-05 8.97850092e-05] w = [-0.07628505 0.88807792 2.18820713] w\_new= [-0.07628578 0.88807775 2.18820803]

gradient= [-7.30872939e-05 -1.65738310e-05 8.96611249e-05] w = [-0.07628578 0.88807775 2.18820803] w\_new= [-0.07628651 0.88807759 2.18820893]

gradient= [-7.29849265e-05 -1.65524851e-05 8.95374115e-05] w = [-0.07628651 0.88807759 2.18820893] w\_new= [-0.07628724 0.88807742 2.18820982]

gradient= [-7.28827026e-05 -1.65311662e-05 8.94138689e-05] w = [-0.07628724 0.88807742 2.18820982] w\_new= [-0.07628797 0.88807725 2.18821072]

gradient= [-7.27806222e-05 -1.65098744e-05 8.92904967e-05] w = [-0.07628797 0.88807725 2.18821072] w\_new= [-0.0762887 0.88807709 2.18821161]

gradient= [-7.26786849e-05 -1.64886097e-05 8.91672947e-05] w = [-0.0762887 0.88807709 2.18821161] w\_new= [-0.07628942 0.88807692 2.1882125 ]

gradient= [-7.25768906e-05 -1.64673720e-05 8.90442627e-05] w = [-0.07628942 0.88807692 2.1882125 ] w\_new= [-0.07629015 0.88807676 2.18821339]

gradient= [-7.24752391e-05 -1.64461613e-05 8.89214004e-05] w = [-0.07629015 0.88807676 2.18821339] w\_new= [-0.07629087 0.8880766 2.18821428]

gradient= [-7.23737302e-05 -1.64249776e-05 8.87987077e-05] w = [-0.07629087 0.8880766 2.18821428] w\_new= [-0.0762916 0.88807643 2.18821517]

gradient= [-7.22723636e-05 -1.64038207e-05 8.86761843e-05] w = [-0.0762916 0.88807643 2.18821517] w\_new= [-0.07629232 0.88807627 2.18821605]

gradient= [-7.21711391e-05 -1.63826908e-05 8.85538299e-05] w = [-0.07629232 0.88807627 2.18821605] w\_new= [-0.07629304 0.8880761 2.18821694]

gradient= [-7.20700567e-05 -1.63615877e-05 8.84316444e-05] w = [-0.07629304 0.8880761 2.18821694] w\_new= [-0.07629376 0.88807594 2.18821782]

gradient= [-7.19691160e-05 -1.63405114e-05 8.83096274e-05] w = [-0.07629376 0.88807594 2.18821782] w\_new= [-0.07629448 0.88807578 2.18821871]

gradient= [-7.18683169e-05 -1.63194619e-05 8.81877788e-05] w = [-0.07629448 0.88807578 2.18821871] w\_new= [-0.0762952 0.88807561 2.18821959]

gradient= [-7.17676592e-05 -1.62984392e-05 8.80660983e-05] w = [-0.0762952 0.88807561 2.18821959] w\_new= [-0.07629592 0.88807545 2.18822047]

gradient= [-7.16671426e-05 -1.62774431e-05 8.79445858e-05] w = [-0.07629592 0.88807545 2.18822047] w\_new= [-0.07629664 0.88807529 2.18822135]

gradient= [-7.15667670e-05 -1.62564738e-05 8.78232408e-05] w = [-0.07629664 0.88807529 2.18822135] w\_new= [-0.07629735 0.88807512 2.18822223]

gradient= [-7.14665322e-05 -1.62355311e-05 8.77020633e-05] w = [-0.07629735 0.88807512 2.18822223] w\_new= [-0.07629807 0.88807496 2.1882231 ]

gradient= [-7.1366438e-05 -1.6214615e-05 8.7581053e-05] w = [-0.07629807 0.88807496 2.1882231 ] w\_new= [-0.07629878 0.8880748 2.18822398]

gradient= [-7.12664842e-05 -1.61937255e-05 8.74602097e-05] w = [-0.07629878 0.8880748 2.18822398] w\_new= [-0.07629949 0.88807464 2.18822485]

gradient= [-7.11666705e-05 -1.61728626e-05 8.73395331e-05] w = [-0.07629949 0.88807464 2.18822485] w\_new= [-0.0763002 0.88807448 2.18822573]

gradient= [-7.10669968e-05 -1.61520261e-05 8.72190230e-05] w = [-0.0763002 0.88807448 2.18822573] w\_new= [-0.07630092 0.88807431 2.1882266 ]

gradient= [-7.09674630e-05 -1.61312162e-05 8.70986792e-05] w = [-0.07630092 0.88807431 2.1882266 ] w\_new= [-0.07630162 0.88807415 2.18822747]

gradient= [-7.08680687e-05 -1.61104327e-05 8.69785014e-05] w = [-0.07630162 0.88807415 2.18822747] w\_new= [-0.07630233 0.88807399 2.18822834]

gradient= [-7.07688138e-05 -1.60896756e-05 8.68584894e-05] w = [-0.07630233 0.88807399 2.18822834] w\_new= [-0.07630304 0.88807383 2.18822921]

gradient= [-7.06696981e-05 -1.60689449e-05 8.67386431e-05] w = [-0.07630304 0.88807383 2.18822921] w\_new= [-0.07630375 0.88807367 2.18823008]

gradient= [-7.05707215e-05 -1.60482406e-05 8.66189621e-05] w = [-0.07630375 0.88807367 2.18823008] w\_new= [-0.07630445 0.88807351 2.18823094]

gradient= [-7.04718836e-05 -1.60275626e-05 8.64994462e-05] w = [-0.07630445 0.88807351 2.18823094] w\_new= [-0.07630516 0.88807335 2.18823181]

gradient= [-7.03731844e-05 -1.60069109e-05 8.63800952e-05] w = [-0.07630516 0.88807335 2.18823181] w\_new= [-0.07630586 0.88807319 2.18823267]

gradient= [-7.02746235e-05 -1.59862854e-05 8.62609089e-05] w = [-0.07630586 0.88807319 2.18823267] w\_new= [-0.07630656 0.88807303 2.18823353]

gradient= [-7.01762009e-05 -1.59656861e-05 8.61418871e-05] w = [-0.07630656 0.88807303 2.18823353] w\_new= [-0.07630727 0.88807287 2.1882344 ]

gradient= [-7.00779164e-05 -1.59451131e-05 8.60230295e-05] w = [-0.07630727 0.88807287 2.1882344 ] w\_new= [-0.07630797 0.88807271 2.18823526]

gradient= [-6.99797697e-05 -1.59245662e-05 8.59043358e-05] w = [-0.07630797 0.88807271 2.18823526] w\_new= [-0.07630867 0.88807255 2.18823612]

gradient= [-6.98817606e-05 -1.59040454e-05 8.57858060e-05] w = [-0.07630867 0.88807255 2.18823612] w\_new= [-0.07630937 0.88807239 2.18823697]

gradient= [-6.97838890e-05 -1.58835507e-05 8.56674397e-05] w = [-0.07630937 0.88807239 2.18823697] w\_new= [-0.07631006 0.88807223 2.18823783]

gradient= [-6.96861546e-05 -1.58630820e-05 8.55492367e-05] w = [-0.07631006 0.88807223 2.18823783] w\_new= [-0.07631076 0.88807208 2.18823869]

gradient= [-6.95885573e-05 -1.58426394e-05 8.54311968e-05] w = [-0.07631076 0.88807208 2.18823869] w\_new= [-0.07631146 0.88807192 2.18823954]

gradient= [-6.94910969e-05 -1.58222228e-05 8.53133197e-05] w = [-0.07631146 0.88807192 2.18823954] w\_new= [-0.07631215 0.88807176 2.18824039]

gradient= [-6.93937732e-05 -1.58018321e-05 8.51956053e-05] w = [-0.07631215 0.88807176 2.18824039] w\_new= [-0.07631285 0.8880716 2.18824124]

gradient= [-6.92965859e-05 -1.57814674e-05 8.50780533e-05] w = [-0.07631285 0.8880716 2.18824124] w\_new= [-0.07631354 0.88807144 2.1882421 ]

gradient= [-6.91995350e-05 -1.57611286e-05 8.49606635e-05] w = [-0.07631354 0.88807144 2.1882421 ] w\_new= [-0.07631423 0.88807129 2.18824295]

gradient= [-6.91026201e-05 -1.57408156e-05 8.48434357e-05] w = [-0.07631423 0.88807129 2.18824295] w\_new= [-0.07631492 0.88807113 2.18824379]

gradient= [-6.90058412e-05 -1.57205284e-05 8.47263697e-05] w = [-0.07631492 0.88807113 2.18824379] w\_new= [-0.07631561 0.88807097 2.18824464]

gradient= [-6.89091980e-05 -1.57002671e-05 8.46094651e-05] w = [-0.07631561 0.88807097 2.18824464] w\_new= [-0.0763163 0.88807081 2.18824549]

gradient= [-6.88126904e-05 -1.56800315e-05 8.44927219e-05] w = [-0.0763163 0.88807081 2.18824549] w\_new= [-0.07631699 0.88807066 2.18824633]

gradient= [-6.87163180e-05 -1.56598217e-05 8.43761397e-05] w = [-0.07631699 0.88807066 2.18824633] w\_new= [-0.07631768 0.8880705 2.18824718]

gradient= [-6.86200809e-05 -1.56396375e-05 8.42597184e-05] w = [-0.07631768 0.8880705 2.18824718] w\_new= [-0.07631836 0.88807034 2.18824802]

gradient= [-6.85239787e-05 -1.56194790e-05 8.41434577e-05] w = [-0.07631836 0.88807034 2.18824802] w\_new= [-0.07631905 0.88807019 2.18824886]

gradient= [-6.84280112e-05 -1.55993462e-05 8.40273574e-05] w = [-0.07631905 0.88807019 2.18824886] w\_new= [-0.07631973 0.88807003 2.1882497 ]

gradient= [-6.83321784e-05 -1.55792389e-05 8.39114173e-05] w = [-0.07631973 0.88807003 2.1882497 ] w\_new= [-0.07632041 0.88806988 2.18825054]

gradient= [-6.82364800e-05 -1.55591573e-05 8.37956372e-05] w = [-0.07632041 0.88806988 2.18825054] w\_new= [-0.0763211 0.88806972 2.18825138]

gradient= [-6.81409157e-05 -1.55391012e-05 8.36800169e-05] w = [-0.0763211 0.88806972 2.18825138] w\_new= [-0.07632178 0.88806956 2.18825221]

gradient= [-6.80454855e-05 -1.55190705e-05 8.35645560e-05] w = [-0.07632178 0.88806956 2.18825221] w\_new= [-0.07632246 0.88806941 2.18825305]

gradient= [-6.79501891e-05 -1.54990654e-05 8.34492545e-05] w = [-0.07632246 0.88806941 2.18825305] w\_new= [-0.07632314 0.88806925 2.18825388]

gradient= [-6.78550263e-05 -1.54790857e-05 8.33341121e-05] w = [-0.07632314 0.88806925 2.18825388] w\_new= [-0.07632382 0.8880691 2.18825472]

gradient= [-6.77599971e-05 -1.54591314e-05 8.32191285e-05] w = [-0.07632382 0.8880691 2.18825472] w\_new= [-0.07632449 0.88806895 2.18825555]

gradient= [-6.76651010e-05 -1.54392025e-05 8.31043036e-05] w = [-0.07632449 0.88806895 2.18825555] w\_new= [-0.07632517 0.88806879 2.18825638]

gradient= [-6.75703381e-05 -1.54192990e-05 8.29896371e-05] w = [-0.07632517 0.88806879 2.18825638] w\_new= [-0.07632585 0.88806864 2.18825721]

gradient= [-6.74757080e-05 -1.53994208e-05 8.28751288e-05] w = [-0.07632585 0.88806864 2.18825721] w\_new= [-0.07632652 0.88806848 2.18825804]

gradient= [-6.73812107e-05 -1.53795678e-05 8.27607785e-05] w = [-0.07632652 0.88806848 2.18825804] w\_new= [-0.0763272 0.88806833 2.18825887]

gradient= [-6.72868458e-05 -1.53597401e-05 8.26465860e-05] w = [-0.0763272 0.88806833 2.18825887] w\_new= [-0.07632787 0.88806818 2.18825969]

gradient= [-6.71926133e-05 -1.53399377e-05 8.25325510e-05] w = [-0.07632787 0.88806818 2.18825969] w\_new= [-0.07632854 0.88806802 2.18826052]

gradient= [-6.70985130e-05 -1.53201604e-05 8.24186734e-05] w = [-0.07632854 0.88806802 2.18826052] w\_new= [-0.07632921 0.88806787 2.18826134]

gradient= [-6.70045446e-05 -1.53004083e-05 8.23049529e-05] w = [-0.07632921 0.88806787 2.18826134] w\_new= [-0.07632988 0.88806772 2.18826217]

gradient= [-6.69107080e-05 -1.52806813e-05 8.21913893e-05] w = [-0.07632988 0.88806772 2.18826217] w\_new= [-0.07633055 0.88806756 2.18826299]

gradient= [-6.68170030e-05 -1.52609794e-05 8.20779824e-05] w = [-0.07633055 0.88806756 2.18826299] w\_new= [-0.07633122 0.88806741 2.18826381]

gradient= [-6.67234294e-05 -1.52413026e-05 8.19647320e-05] w = [-0.07633122 0.88806741 2.18826381] w\_new= [-0.07633189 0.88806726 2.18826463]

gradient= [-6.66299870e-05 -1.52216508e-05 8.18516378e-05] w = [-0.07633189 0.88806726 2.18826463] w\_new= [-0.07633255 0.88806711 2.18826545]

gradient= [-6.65366756e-05 -1.52020241e-05 8.17386997e-05] w = [-0.07633255 0.88806711 2.18826545] w\_new= [-0.07633322 0.88806695 2.18826626]

gradient= [-6.64434951e-05 -1.51824223e-05 8.16259174e-05] w = [-0.07633322 0.88806695 2.18826626] w\_new= [-0.07633388 0.8880668 2.18826708]

gradient= [-6.63504453e-05 -1.51628454e-05 8.15132907e-05] w = [-0.07633388 0.8880668 2.18826708] w\_new= [-0.07633455 0.88806665 2.1882679 ]

gradient= [-6.62575260e-05 -1.51432934e-05 8.14008194e-05] w = [-0.07633455 0.88806665 2.1882679 ] w\_new= [-0.07633521 0.8880665 2.18826871]

gradient= [-6.61647369e-05 -1.51237664e-05 8.12885033e-05] w = [-0.07633521 0.8880665 2.18826871] w\_new= [-0.07633587 0.88806635 2.18826952]

gradient= [-6.60720780e-05 -1.51042641e-05 8.11763421e-05] w = [-0.07633587 0.88806635 2.18826952] w\_new= [-0.07633653 0.8880662 2.18827033]

gradient= [-6.59795490e-05 -1.50847867e-05 8.10643357e-05] w = [-0.07633653 0.8880662 2.18827033] w\_new= [-0.07633719 0.88806605 2.18827114]

gradient= [-6.58871498e-05 -1.50653341e-05 8.09524839e-05] w = [-0.07633719 0.88806605 2.18827114] w\_new= [-0.07633785 0.88806589 2.18827195]

gradient= [-6.57948801e-05 -1.50459062e-05 8.08407864e-05] w = [-0.07633785 0.88806589 2.18827195] w\_new= [-0.07633851 0.88806574 2.18827276]

gradient= [-6.57027399e-05 -1.50265031e-05 8.07292429e-05] w = [-0.07633851 0.88806574 2.18827276] w\_new= [-0.07633916 0.88806559 2.18827357]

gradient= [-6.56107288e-05 -1.50071246e-05 8.06178534e-05] w = [-0.07633916 0.88806559 2.18827357] w\_new= [-0.07633982 0.88806544 2.18827438]

gradient= [-6.55188468e-05 -1.49877708e-05 8.05066176e-05] w = [-0.07633982 0.88806544 2.18827438] w\_new= [-0.07634048 0.88806529 2.18827518]

gradient= [-6.54270936e-05 -1.49684416e-05 8.03955353e-05] w = [-0.07634048 0.88806529 2.18827518] w\_new= [-0.07634113 0.88806514 2.18827599]

gradient= [-6.53354691e-05 -1.49491371e-05 8.02846062e-05] w = [-0.07634113 0.88806514 2.18827599] w\_new= [-0.07634178 0.888065 2.18827679]

gradient= [-6.52439731e-05 -1.49298571e-05 8.01738302e-05] w = [-0.07634178 0.888065 2.18827679] w\_new= [-0.07634244 0.88806485 2.18827759]

gradient= [-6.51526053e-05 -1.49106016e-05 8.00632070e-05] w = [-0.07634244 0.88806485 2.18827759] w\_new= [-0.07634309 0.8880647 2.18827839]

gradient= [-6.50613657e-05 -1.48913707e-05 7.99527364e-05] w = [-0.07634309 0.8880647 2.18827839] w\_new= [-0.07634374 0.88806455 2.18827919]

gradient= [-6.49702541e-05 -1.48721642e-05 7.98424183e-05] w = [-0.07634374 0.88806455 2.18827919] w\_new= [-0.07634439 0.8880644 2.18827999]

gradient= [-6.48792702e-05 -1.48529822e-05 7.97322524e-05] w = [-0.07634439 0.8880644 2.18827999] w\_new= [-0.07634504 0.88806425 2.18828079]

gradient= [-6.47884139e-05 -1.48338246e-05 7.96222384e-05] w = [-0.07634504 0.88806425 2.18828079] w\_new= [-0.07634568 0.8880641 2.18828158]

gradient= [-6.46976850e-05 -1.48146913e-05 7.95123763e-05] w = [-0.07634568 0.8880641 2.18828158] w\_new= [-0.07634633 0.88806395 2.18828238]

gradient= [-6.46070833e-05 -1.47955825e-05 7.94026657e-05] w = [-0.07634633 0.88806395 2.18828238] w\_new= [-0.07634698 0.88806381 2.18828317]

gradient= [-6.45166086e-05 -1.47764979e-05 7.92931066e-05] w = [-0.07634698 0.88806381 2.18828317] w\_new= [-0.07634762 0.88806366 2.18828396]

gradient= [-6.44262609e-05 -1.47574377e-05 7.91836985e-05] w = [-0.07634762 0.88806366 2.18828396] w\_new= [-0.07634827 0.88806351 2.18828476]

gradient= [-6.43360398e-05 -1.47384017e-05 7.90744415e-05] w = [-0.07634827 0.88806351 2.18828476] w\_new= [-0.07634891 0.88806336 2.18828555]

gradient= [-6.42459452e-05 -1.47193899e-05 7.89653352e-05] w = [-0.07634891 0.88806336 2.18828555] w\_new= [-0.07634955 0.88806322 2.18828634]

gradient= [-6.41559770e-05 -1.47004024e-05 7.88563794e-05] w = [-0.07634955 0.88806322 2.18828634] w\_new= [-0.07635019 0.88806307 2.18828712]

gradient= [-6.40661350e-05 -1.46814390e-05 7.87475739e-05] w = [-0.07635019 0.88806307 2.18828712] w\_new= [-0.07635083 0.88806292 2.18828791]

gradient= [-6.39764189e-05 -1.46624997e-05 7.86389186e-05] w = [-0.07635083 0.88806292 2.18828791] w\_new= [-0.07635147 0.88806278 2.1882887 ]

gradient= [-6.38868286e-05 -1.46435846e-05 7.85304132e-05] w = [-0.07635147 0.88806278 2.1882887 ] w\_new= [-0.07635211 0.88806263 2.18828948]

gradient= [-6.37973639e-05 -1.46246936e-05 7.84220575e-05] w = [-0.07635211 0.88806263 2.18828948] w\_new= [-0.07635275 0.88806248 2.18829027]

gradient= [-6.37080247e-05 -1.46058266e-05 7.83138513e-05] w = [-0.07635275 0.88806248 2.18829027] w\_new= [-0.07635339 0.88806234 2.18829105]

gradient= [-6.36188108e-05 -1.45869836e-05 7.82057944e-05] w = [-0.07635339 0.88806234 2.18829105] w\_new= [-0.07635402 0.88806219 2.18829183]

gradient= [-6.35297220e-05 -1.45681646e-05 7.80978866e-05] w = [-0.07635402 0.88806219 2.18829183] w\_new= [-0.07635466 0.88806205 2.18829261]

gradient= [-6.34407581e-05 -1.45493696e-05 7.79901276e-05] w = [-0.07635466 0.88806205 2.18829261] w\_new= [-0.07635529 0.8880619 2.18829339]

gradient= [-6.33519189e-05 -1.45305985e-05 7.78825174e-05] w = [-0.07635529 0.8880619 2.18829339] w\_new= [-0.07635593 0.88806175 2.18829417]

gradient= [-6.32632043e-05 -1.45118513e-05 7.77750556e-05] w = [-0.07635593 0.88806175 2.18829417] w\_new= [-0.07635656 0.88806161 2.18829495]

gradient= [-6.31746141e-05 -1.44931280e-05 7.76677421e-05] w = [-0.07635656 0.88806161 2.18829495] w\_new= [-0.07635719 0.88806146 2.18829573]

gradient= [-6.30861481e-05 -1.44744285e-05 7.75605766e-05] w = [-0.07635719 0.88806146 2.18829573] w\_new= [-0.07635782 0.88806132 2.1882965 ]

gradient= [-6.29978062e-05 -1.44557528e-05 7.74535591e-05] w = [-0.07635782 0.88806132 2.1882965 ] w\_new= [-0.07635845 0.88806118 2.18829728]

gradient= [-6.29095882e-05 -1.44371010e-05 7.73466891e-05] w = [-0.07635845 0.88806118 2.18829728] w\_new= [-0.07635908 0.88806103 2.18829805]

gradient= [-6.28214938e-05 -1.44184728e-05 7.72399666e-05] w = [-0.07635908 0.88806103 2.18829805] w\_new= [-0.07635971 0.88806089 2.18829882]

gradient= [-6.27335230e-05 -1.43998684e-05 7.71333914e-05] w = [-0.07635971 0.88806089 2.18829882] w\_new= [-0.07636034 0.88806074 2.18829959]

gradient= [-6.26456755e-05 -1.43812877e-05 7.70269632e-05] w = [-0.07636034 0.88806074 2.18829959] w\_new= [-0.07636096 0.8880606 2.18830037]

gradient= [-6.25579512e-05 -1.43627306e-05 7.69206819e-05] w = [-0.07636096 0.8880606 2.18830037] w\_new= [-0.07636159 0.88806046 2.18830113]

gradient= [-6.24703499e-05 -1.43441972e-05 7.68145472e-05] w = [-0.07636159 0.88806046 2.18830113] w\_new= [-0.07636221 0.88806031 2.1883019 ]

gradient= [-6.23828715e-05 -1.43256874e-05 7.67085589e-05] w = [-0.07636221 0.88806031 2.1883019 ] w\_new= [-0.07636284 0.88806017 2.18830267]

gradient= [-6.22955157e-05 -1.43072012e-05 7.66027169e-05] w = [-0.07636284 0.88806017 2.18830267] w\_new= [-0.07636346 0.88806003 2.18830344]

gradient= [-6.22082824e-05 -1.42887385e-05 7.64970209e-05] w = [-0.07636346 0.88806003 2.18830344] w\_new= [-0.07636408 0.88805988 2.1883042 ]

gradient= [-6.21211714e-05 -1.42702993e-05 7.63914707e-05] w = [-0.07636408 0.88805988 2.1883042 ] w\_new= [-0.0763647 0.88805974 2.18830496]

gradient= [-6.20341826e-05 -1.42518836e-05 7.62860661e-05] w = [-0.0763647 0.88805974 2.18830496] w\_new= [-0.07636532 0.8880596 2.18830573]

gradient= [-6.19473157e-05 -1.42334913e-05 7.61808070e-05] w = [-0.07636532 0.8880596 2.18830573] w\_new= [-0.07636594 0.88805946 2.18830649]

gradient= [-6.18605706e-05 -1.42151225e-05 7.60756932e-05] w = [-0.07636594 0.88805946 2.18830649] w\_new= [-0.07636656 0.88805931 2.18830725]

gradient= [-6.17739472e-05 -1.41967771e-05 7.59707243e-05] w = [-0.07636656 0.88805931 2.18830725] w\_new= [-0.07636718 0.88805917 2.18830801]

gradient= [-6.16874452e-05 -1.41784551e-05 7.58659003e-05] w = [-0.07636718 0.88805917 2.18830801] w\_new= [-0.0763678 0.88805903 2.18830877]

gradient= [-6.16010645e-05 -1.41601563e-05 7.57612209e-05] w = [-0.0763678 0.88805903 2.18830877] w\_new= [-0.07636841 0.88805889 2.18830953]

gradient= [-6.15148050e-05 -1.41418809e-05 7.56566859e-05] w = [-0.07636841 0.88805889 2.18830953] w\_new= [-0.07636903 0.88805875 2.18831028]

gradient= [-6.14286663e-05 -1.41236288e-05 7.55522952e-05] w = [-0.07636903 0.88805875 2.18831028] w\_new= [-0.07636964 0.8880586 2.18831104]

gradient= [-6.13426485e-05 -1.41054000e-05 7.54480485e-05] w = [-0.07636964 0.8880586 2.18831104] w\_new= [-0.07637026 0.88805846 2.18831179]

gradient= [-6.12567513e-05 -1.40871943e-05 7.53439456e-05] w = [-0.07637026 0.88805846 2.18831179] w\_new= [-0.07637087 0.88805832 2.18831255]

gradient= [-6.11709745e-05 -1.40690118e-05 7.52399863e-05] w = [-0.07637087 0.88805832 2.18831255] w\_new= [-0.07637148 0.88805818 2.1883133 ]

gradient= [-6.10853180e-05 -1.40508526e-05 7.51361705e-05] w = [-0.07637148 0.88805818 2.1883133 ] w\_new= [-0.07637209 0.88805804 2.18831405]

gradient= [-6.09997816e-05 -1.40327164e-05 7.50324980e-05] w = [-0.07637209 0.88805804 2.18831405] w\_new= [-0.0763727 0.8880579 2.1883148]

gradient= [-6.09143651e-05 -1.40146034e-05 7.49289684e-05] w = [-0.0763727 0.8880579 2.1883148] w\_new= [-0.07637331 0.88805776 2.18831555]

gradient= [-6.08290684e-05 -1.39965134e-05 7.48255817e-05] w = [-0.07637331 0.88805776 2.18831555] w\_new= [-0.07637392 0.88805762 2.1883163 ]

gradient= [-6.07438912e-05 -1.39784465e-05 7.47223377e-05] w = [-0.07637392 0.88805762 2.1883163 ] w\_new= [-0.07637453 0.88805748 2.18831704]

gradient= [-6.06588335e-05 -1.39604026e-05 7.46192361e-05] w = [-0.07637453 0.88805748 2.18831704] w\_new= [-0.07637513 0.88805734 2.18831779]

gradient= [-6.05738951e-05 -1.39423816e-05 7.45162767e-05] w = [-0.07637513 0.88805734 2.18831779] w\_new= [-0.07637574 0.8880572 2.18831854]

gradient= [-6.04890758e-05 -1.39243837e-05 7.44134594e-05] w = [-0.07637574 0.8880572 2.18831854] w\_new= [-0.07637634 0.88805706 2.18831928]

gradient= [-6.04043754e-05 -1.39064087e-05 7.43107840e-05] w = [-0.07637634 0.88805706 2.18831928] w\_new= [-0.07637695 0.88805692 2.18832002]

gradient= [-6.03197937e-05 -1.38884565e-05 7.42082502e-05] w = [-0.07637695 0.88805692 2.18832002] w\_new= [-0.07637755 0.88805679 2.18832077]

gradient= [-6.02353306e-05 -1.38705273e-05 7.41058579e-05] w = [-0.07637755 0.88805679 2.18832077] w\_new= [-0.07637815 0.88805665 2.18832151]

gradient= [-6.01509860e-05 -1.38526209e-05 7.40036069e-05] w = [-0.07637815 0.88805665 2.18832151] w\_new= [-0.07637875 0.88805651 2.18832225]

gradient= [-6.00667596e-05 -1.38347373e-05 7.39014970e-05] w = [-0.07637875 0.88805651 2.18832225] w\_new= [-0.07637936 0.88805637 2.18832299]

gradient= [-5.99826514e-05 -1.38168765e-05 7.37995279e-05] w = [-0.07637936 0.88805637 2.18832299] w\_new= [-0.07637996 0.88805623 2.18832372]

gradient= [-5.98986610e-05 -1.37990385e-05 7.36976995e-05] w = [-0.07637996 0.88805623 2.18832372] w\_new= [-0.07638055 0.88805609 2.18832446]

gradient= [-5.98147884e-05 -1.37812232e-05 7.35960116e-05] w = [-0.07638055 0.88805609 2.18832446] w\_new= [-0.07638115 0.88805596 2.1883252 ]

gradient= [-5.97310334e-05 -1.37634306e-05 7.34944640e-05] w = [-0.07638115 0.88805596 2.1883252 ] w\_new= [-0.07638175 0.88805582 2.18832593]

gradient= [-5.96473958e-05 -1.37456607e-05 7.33930566e-05] w = [-0.07638175 0.88805582 2.18832593] w\_new= [-0.07638235 0.88805568 2.18832667]

gradient= [-5.95638755e-05 -1.37279134e-05 7.32917890e-05] w = [-0.07638235 0.88805568 2.18832667] w\_new= [-0.07638294 0.88805554 2.1883274 ]

gradient= [-5.94804724e-05 -1.37101888e-05 7.31906612e-05] w = [-0.07638294 0.88805554 2.1883274 ] w\_new= [-0.07638354 0.88805541 2.18832813]

gradient= [-5.93971861e-05 -1.36924867e-05 7.30896728e-05] w = [-0.07638354 0.88805541 2.18832813] w\_new= [-0.07638413 0.88805527 2.18832886]

gradient= [-5.93140166e-05 -1.36748072e-05 7.29888239e-05] w = [-0.07638413 0.88805527 2.18832886] w\_new= [-0.07638472 0.88805513 2.18832959]

gradient= [-5.92309637e-05 -1.36571503e-05 7.28881140e-05] w = [-0.07638472 0.88805513 2.18832959] w\_new= [-0.07638532 0.888055 2.18833032]

gradient= [-5.91480273e-05 -1.36395158e-05 7.27875431e-05] w = [-0.07638532 0.888055 2.18833032] w\_new= [-0.07638591 0.88805486 2.18833105]

gradient= [-5.90652072e-05 -1.36219038e-05 7.26871110e-05] w = [-0.07638591 0.88805486 2.18833105] w\_new= [-0.0763865 0.88805472 2.18833177]

gradient= [-5.89825031e-05 -1.36043143e-05 7.25868174e-05] w = [-0.0763865 0.88805472 2.18833177] w\_new= [-0.07638709 0.88805459 2.1883325 ]

gradient= [-5.88999151e-05 -1.35867472e-05 7.24866623e-05] w = [-0.07638709 0.88805459 2.1883325 ] w\_new= [-0.07638768 0.88805445 2.18833323]

gradient= [-5.88174428e-05 -1.35692025e-05 7.23866453e-05] w = [-0.07638768 0.88805445 2.18833323] w\_new= [-0.07638826 0.88805432 2.18833395]

gradient= [-5.87350861e-05 -1.35516801e-05 7.22867662e-05] w = [-0.07638826 0.88805432 2.18833395] w\_new= [-0.07638885 0.88805418 2.18833467]

gradient= [-5.86528449e-05 -1.35341801e-05 7.21870250e-05] w = [-0.07638885 0.88805418 2.18833467] w\_new= [-0.07638944 0.88805405 2.18833539]

gradient= [-5.85707191e-05 -1.35167024e-05 7.20874215e-05] w = [-0.07638944 0.88805405 2.18833539] w\_new= [-0.07639002 0.88805391 2.18833611]

gradient= [-5.84887083e-05 -1.34992470e-05 7.19879553e-05] w = [-0.07639002 0.88805391 2.18833611] w\_new= [-0.07639061 0.88805377 2.18833683]

gradient= [-5.84068126e-05 -1.34818138e-05 7.18886264e-05] w = [-0.07639061 0.88805377 2.18833683] w\_new= [-0.07639119 0.88805364 2.18833755]

gradient= [-5.83250317e-05 -1.34644028e-05 7.17894345e-05] w = [-0.07639119 0.88805364 2.18833755] w\_new= [-0.07639178 0.88805351 2.18833827]

gradient= [-5.82433654e-05 -1.34470141e-05 7.16903795e-05] w = [-0.07639178 0.88805351 2.18833827] w\_new= [-0.07639236 0.88805337 2.18833899]

gradient= [-5.81618136e-05 -1.34296475e-05 7.15914611e-05] w = [-0.07639236 0.88805337 2.18833899] w\_new= [-0.07639294 0.88805324 2.1883397 ]

gradient= [-5.80803762e-05 -1.34123030e-05 7.14926792e-05] w = [-0.07639294 0.88805324 2.1883397 ] w\_new= [-0.07639352 0.8880531 2.18834042]

gradient= [-5.79990529e-05 -1.33949807e-05 7.13940336e-05] w = [-0.07639352 0.8880531 2.18834042] w\_new= [-0.0763941 0.88805297 2.18834113]

gradient= [-5.79178437e-05 -1.33776805e-05 7.12955241e-05] w = [-0.0763941 0.88805297 2.18834113] w\_new= [-0.07639468 0.88805283 2.18834185]

gradient= [-5.78367483e-05 -1.33604023e-05 7.11971506e-05] w = [-0.07639468 0.88805283 2.18834185] w\_new= [-0.07639526 0.8880527 2.18834256]

gradient= [-5.77557666e-05 -1.33431461e-05 7.10989127e-05] w = [-0.07639526 0.8880527 2.18834256] w\_new= [-0.07639584 0.88805257 2.18834327]

gradient= [-5.76748985e-05 -1.33259120e-05 7.10008104e-05] w = [-0.07639584 0.88805257 2.18834327] w\_new= [-0.07639641 0.88805243 2.18834398]

gradient= [-5.75941437e-05 -1.33086998e-05 7.09028435e-05] w = [-0.07639641 0.88805243 2.18834398] w\_new= [-0.07639699 0.8880523 2.18834469]

gradient= [-5.75135021e-05 -1.32915096e-05 7.08050117e-05] w = [-0.07639699 0.8880523 2.18834469] w\_new= [-0.07639756 0.88805217 2.1883454 ]

gradient= [-5.74329736e-05 -1.32743412e-05 7.07073149e-05] w = [-0.07639756 0.88805217 2.1883454 ] w\_new= [-0.07639814 0.88805204 2.1883461 ]

gradient= [-5.73525580e-05 -1.32571948e-05 7.06097528e-05] w = [-0.07639814 0.88805204 2.1883461 ] w\_new= [-0.07639871 0.8880519 2.18834681]

gradient= [-5.72722552e-05 -1.32400703e-05 7.05123254e-05] w = [-0.07639871 0.8880519 2.18834681] w\_new= [-0.07639929 0.88805177 2.18834751]

gradient= [-5.71920649e-05 -1.32229675e-05 7.04150324e-05] w = [-0.07639929 0.88805177 2.18834751] w\_new= [-0.07639986 0.88805164 2.18834822]

gradient= [-5.71119871e-05 -1.32058866e-05 7.03178737e-05] w = [-0.07639986 0.88805164 2.18834822] w\_new= [-0.07640043 0.88805151 2.18834892]

gradient= [-5.70320215e-05 -1.31888275e-05 7.02208490e-05] w = [-0.07640043 0.88805151 2.18834892] w\_new= [-0.076401 0.88805137 2.18834962]

gradient= [-5.69521680e-05 -1.31717901e-05 7.01239582e-05] w = [-0.076401 0.88805137 2.18834962] w\_new= [-0.07640157 0.88805124 2.18835033]

gradient= [-5.68724265e-05 -1.31547745e-05 7.00272010e-05] w = [-0.07640157 0.88805124 2.18835033] w\_new= [-0.07640214 0.88805111 2.18835103]

gradient= [-5.67927968e-05 -1.31377806e-05 6.99305773e-05] w = [-0.07640214 0.88805111 2.18835103] w\_new= [-0.0764027 0.88805098 2.18835172]

gradient= [-5.67132787e-05 -1.31208083e-05 6.98340870e-05] w = [-0.0764027 0.88805098 2.18835172] w\_new= [-0.07640327 0.88805085 2.18835242]

gradient= [-5.66338721e-05 -1.31038577e-05 6.97377298e-05] w = [-0.07640327 0.88805085 2.18835242] w\_new= [-0.07640384 0.88805072 2.18835312]

gradient= [-5.65545768e-05 -1.30869287e-05 6.96415055e-05] w = [-0.07640384 0.88805072 2.18835312] w\_new= [-0.0764044 0.88805059 2.18835382]

gradient= [-5.64753927e-05 -1.30700213e-05 6.95454140e-05] w = [-0.0764044 0.88805059 2.18835382] w\_new= [-0.07640497 0.88805046 2.18835451]

gradient= [-5.63963196e-05 -1.30531354e-05 6.94494551e-05] w = [-0.07640497 0.88805046 2.18835451] w\_new= [-0.07640553 0.88805033 2.18835521]

gradient= [-5.63173574e-05 -1.30362711e-05 6.93536285e-05] w = [-0.07640553 0.88805033 2.18835521] w\_new= [-0.0764061 0.8880502 2.1883559]

gradient= [-5.62385059e-05 -1.30194283e-05 6.92579342e-05] w = [-0.0764061 0.8880502 2.1883559] w\_new= [-0.07640666 0.88805007 2.18835659]

gradient= [-5.61597649e-05 -1.30026070e-05 6.91623719e-05] w = [-0.07640666 0.88805007 2.18835659] w\_new= [-0.07640722 0.88804994 2.18835728]

gradient= [-5.60811343e-05 -1.29858072e-05 6.90669414e-05] w = [-0.07640722 0.88804994 2.18835728] w\_new= [-0.07640778 0.88804981 2.18835798]

gradient= [-5.60026139e-05 -1.29690287e-05 6.89716427e-05] w = [-0.07640778 0.88804981 2.18835798] w\_new= [-0.07640834 0.88804968 2.18835866]

gradient= [-5.59242036e-05 -1.29522717e-05 6.88764754e-05] w = [-0.07640834 0.88804968 2.18835866] w\_new= [-0.0764089 0.88804955 2.18835935]

gradient= [-5.58459033e-05 -1.29355361e-05 6.87814394e-05] w = [-0.0764089 0.88804955 2.18835935] w\_new= [-0.07640946 0.88804942 2.18836004]

gradient= [-5.57677127e-05 -1.29188218e-05 6.86865345e-05] w = [-0.07640946 0.88804942 2.18836004] w\_new= [-0.07641002 0.88804929 2.18836073]

gradient= [-5.56896317e-05 -1.29021288e-05 6.85917605e-05] w = [-0.07641002 0.88804929 2.18836073] w\_new= [-0.07641057 0.88804916 2.18836141]

gradient= [-5.56116602e-05 -1.28854571e-05 6.84971174e-05] w = [-0.07641057 0.88804916 2.18836141] w\_new= [-0.07641113 0.88804903 2.1883621 ]

gradient= [-5.55337980e-05 -1.28688067e-05 6.84026048e-05] w = [-0.07641113 0.88804903 2.1883621 ] w\_new= [-0.07641168 0.8880489 2.18836278]

gradient= [-5.54560450e-05 -1.28521776e-05 6.83082226e-05] w = [-0.07641168 0.8880489 2.18836278] w\_new= [-0.07641224 0.88804877 2.18836347]

gradient= [-5.53784010e-05 -1.28355696e-05 6.82139706e-05] w = [-0.07641224 0.88804877 2.18836347] w\_new= [-0.07641279 0.88804864 2.18836415]

gradient= [-5.53008658e-05 -1.28189829e-05 6.81198486e-05] w = [-0.07641279 0.88804864 2.18836415] w\_new= [-0.07641335 0.88804852 2.18836483]

gradient= [-5.52234393e-05 -1.28024173e-05 6.80258566e-05] w = [-0.07641335 0.88804852 2.18836483] w\_new= [-0.0764139 0.88804839 2.18836551]

gradient= [-5.51461214e-05 -1.27858728e-05 6.79319942e-05] w = [-0.0764139 0.88804839 2.18836551] w\_new= [-0.07641445 0.88804826 2.18836619]

gradient= [-5.50689118e-05 -1.27693495e-05 6.78382613e-05] w = [-0.07641445 0.88804826 2.18836619] w\_new= [-0.076415 0.88804813 2.18836687]

gradient= [-5.49918105e-05 -1.27528472e-05 6.77446577e-05] w = [-0.076415 0.88804813 2.18836687] w\_new= [-0.07641555 0.888048 2.18836755]

gradient= [-5.49148173e-05 -1.27363660e-05 6.76511833e-05] w = [-0.07641555 0.888048 2.18836755] w\_new= [-0.0764161 0.88804788 2.18836822]

gradient= [-5.48379320e-05 -1.27199058e-05 6.75578378e-05] w = [-0.0764161 0.88804788 2.18836822] w\_new= [-0.07641665 0.88804775 2.1883689 ]

gradient= [-5.47611545e-05 -1.27034666e-05 6.74646211e-05] w = [-0.07641665 0.88804775 2.1883689 ] w\_new= [-0.07641719 0.88804762 2.18836957]

gradient= [-5.46844846e-05 -1.26870484e-05 6.73715331e-05] w = [-0.07641719 0.88804762 2.18836957] w\_new= [-0.07641774 0.8880475 2.18837025]

gradient= [-5.46079223e-05 -1.26706512e-05 6.72785734e-05] w = [-0.07641774 0.8880475 2.18837025] w\_new= [-0.07641829 0.88804737 2.18837092]

gradient= [-5.45314672e-05 -1.26542749e-05 6.71857421e-05] w = [-0.07641829 0.88804737 2.18837092] w\_new= [-0.07641883 0.88804724 2.18837159]

gradient= [-5.44551193e-05 -1.26379194e-05 6.70930388e-05] w = [-0.07641883 0.88804724 2.18837159] w\_new= [-0.07641938 0.88804712 2.18837226]

gradient= [-5.43788785e-05 -1.26215849e-05 6.70004634e-05] w = [-0.07641938 0.88804712 2.18837226] w\_new= [-0.07641992 0.88804699 2.18837293]

gradient= [-5.43027445e-05 -1.26052712e-05 6.69080157e-05] w = [-0.07641992 0.88804699 2.18837293] w\_new= [-0.07642046 0.88804686 2.1883736 ]

gradient= [-5.42267173e-05 -1.25889783e-05 6.68156956e-05] w = [-0.07642046 0.88804686 2.1883736 ] w\_new= [-0.07642101 0.88804674 2.18837427]

gradient= [-5.41507966e-05 -1.25727062e-05 6.67235029e-05] w = [-0.07642101 0.88804674 2.18837427] w\_new= [-0.07642155 0.88804661 2.18837494]

gradient= [-5.40749824e-05 -1.25564549e-05 6.66314373e-05] w = [-0.07642155 0.88804661 2.18837494] w\_new= [-0.07642209 0.88804649 2.1883756 ]

gradient= [-5.39992745e-05 -1.25402243e-05 6.65394988e-05] w = [-0.07642209 0.88804649 2.1883756 ] w\_new= [-0.07642263 0.88804636 2.18837627]

gradient= [-5.39236727e-05 -1.25240144e-05 6.64476871e-05] w = [-0.07642263 0.88804636 2.18837627] w\_new= [-0.07642317 0.88804624 2.18837693]

gradient= [-5.38481769e-05 -1.25078253e-05 6.63560021e-05] w = [-0.07642317 0.88804624 2.18837693] w\_new= [-0.07642371 0.88804611 2.1883776 ]

gradient= [-5.37727869e-05 -1.24916567e-05 6.62644436e-05] w = [-0.07642371 0.88804611 2.1883776 ] w\_new= [-0.07642424 0.88804599 2.18837826]

gradient= [-5.36975026e-05 -1.24755089e-05 6.61730114e-05] w = [-0.07642424 0.88804599 2.18837826] w\_new= [-0.07642478 0.88804586 2.18837892]

gradient= [-5.36223238e-05 -1.24593816e-05 6.60817054e-05] w = [-0.07642478 0.88804586 2.18837892] w\_new= [-0.07642532 0.88804574 2.18837958]

gradient= [-5.35472504e-05 -1.24432749e-05 6.59905253e-05] w = [-0.07642532 0.88804574 2.18837958] w\_new= [-0.07642585 0.88804561 2.18838024]

gradient= [-5.34722823e-05 -1.24271888e-05 6.58994711e-05] w = [-0.07642585 0.88804561 2.18838024] w\_new= [-0.07642639 0.88804549 2.1883809 ]

gradient= [-5.33974192e-05 -1.24111232e-05 6.58085424e-05] w = [-0.07642639 0.88804549 2.1883809 ] w\_new= [-0.07642692 0.88804536 2.18838156]

gradient= [-5.33226611e-05 -1.23950781e-05 6.57177393e-05] w = [-0.07642692 0.88804536 2.18838156] w\_new= [-0.07642746 0.88804524 2.18838221]

gradient= [-5.32480078e-05 -1.23790535e-05 6.56270614e-05] w = [-0.07642746 0.88804524 2.18838221] w\_new= [-0.07642799 0.88804512 2.18838287]

gradient= [-5.31734592e-05 -1.23630494e-05 6.55365086e-05] w = [-0.07642799 0.88804512 2.18838287] w\_new= [-0.07642852 0.88804499 2.18838353]

gradient= [-5.30990150e-05 -1.23470657e-05 6.54460807e-05] w = [-0.07642852 0.88804499 2.18838353] w\_new= [-0.07642905 0.88804487 2.18838418]

gradient= [-5.30246752e-05 -1.23311024e-05 6.53557776e-05] w = [-0.07642905 0.88804487 2.18838418] w\_new= [-0.07642958 0.88804475 2.18838483]

gradient= [-5.29504397e-05 -1.23151595e-05 6.52655991e-05] w = [-0.07642958 0.88804475 2.18838483] w\_new= [-0.07643011 0.88804462 2.18838549]

gradient= [-5.28763081e-05 -1.22992369e-05 6.51755450e-05] w = [-0.07643011 0.88804462 2.18838549] w\_new= [-0.07643064 0.8880445 2.18838614]

gradient= [-5.28022805e-05 -1.22833346e-05 6.50856152e-05] w = [-0.07643064 0.8880445 2.18838614] w\_new= [-0.07643117 0.88804438 2.18838679]

gradient= [-5.27283567e-05 -1.22674527e-05 6.49958094e-05] w = [-0.07643117 0.88804438 2.18838679] w\_new= [-0.07643169 0.88804425 2.18838744]

gradient= [-5.26545365e-05 -1.22515911e-05 6.49061276e-05] w = [-0.07643169 0.88804425 2.18838744] w\_new= [-0.07643222 0.88804413 2.18838809]

gradient= [-5.25808198e-05 -1.22357496e-05 6.48165695e-05] w = [-0.07643222 0.88804413 2.18838809] w\_new= [-0.07643275 0.88804401 2.18838874]

gradient= [-5.25072064e-05 -1.22199285e-05 6.47271349e-05] w = [-0.07643275 0.88804401 2.18838874] w\_new= [-0.07643327 0.88804389 2.18838938]

gradient= [-5.24336962e-05 -1.22041275e-05 6.46378237e-05] w = [-0.07643327 0.88804389 2.18838938] w\_new= [-0.0764338 0.88804377 2.18839003]

gradient= [-5.23602891e-05 -1.21883467e-05 6.45486358e-05] w = [-0.0764338 0.88804377 2.18839003] w\_new= [-0.07643432 0.88804364 2.18839068]

gradient= [-5.22869849e-05 -1.21725860e-05 6.44595709e-05] w = [-0.07643432 0.88804364 2.18839068] w\_new= [-0.07643484 0.88804352 2.18839132]

gradient= [-5.22137834e-05 -1.21568455e-05 6.43706289e-05] w = [-0.07643484 0.88804352 2.18839132] w\_new= [-0.07643536 0.8880434 2.18839196]

gradient= [-5.21406845e-05 -1.21411251e-05 6.42818096e-05] w = [-0.07643536 0.8880434 2.18839196] w\_new= [-0.07643589 0.88804328 2.18839261]

gradient= [-5.20676881e-05 -1.21254247e-05 6.41931128e-05] w = [-0.07643589 0.88804328 2.18839261] w\_new= [-0.07643641 0.88804316 2.18839325]

gradient= [-5.19947940e-05 -1.21097444e-05 6.41045384e-05] w = [-0.07643641 0.88804316 2.18839325] w\_new= [-0.07643693 0.88804304 2.18839389]

gradient= [-5.19220021e-05 -1.20940841e-05 6.40160862e-05] w = [-0.07643693 0.88804304 2.18839389] w\_new= [-0.07643745 0.88804292 2.18839453]

gradient= [-5.18493123e-05 -1.20784438e-05 6.39277561e-05] w = [-0.07643745 0.88804292 2.18839453] w\_new= [-0.07643796 0.88804279 2.18839517]

gradient= [-5.17767243e-05 -1.20628235e-05 6.38395478e-05] w = [-0.07643796 0.88804279 2.18839517] w\_new= [-0.07643848 0.88804267 2.18839581]

gradient= [-5.17042381e-05 -1.20472232e-05 6.37514613e-05] w = [-0.07643848 0.88804267 2.18839581] w\_new= [-0.076439 0.88804255 2.18839645]

gradient= [-5.16318535e-05 -1.20316427e-05 6.36634962e-05] w = [-0.076439 0.88804255 2.18839645] w\_new= [-0.07643952 0.88804243 2.18839708]

gradient= [-5.15595703e-05 -1.20160822e-05 6.35756525e-05] w = [-0.07643952 0.88804243 2.18839708] w\_new= [-0.07644003 0.88804231 2.18839772]

gradient= [-5.14873885e-05 -1.20005415e-05 6.34879301e-05] w = [-0.07644003 0.88804231 2.18839772] w\_new= [-0.07644055 0.88804219 2.18839835]

gradient= [-5.14153079e-05 -1.19850207e-05 6.34003286e-05] w = [-0.07644055 0.88804219 2.18839835] w\_new= [-0.07644106 0.88804207 2.18839899]

gradient= [-5.13433283e-05 -1.19695197e-05 6.33128480e-05] w = [-0.07644106 0.88804207 2.18839899] w\_new= [-0.07644157 0.88804195 2.18839962]

gradient= [-5.12714496e-05 -1.19540385e-05 6.32254881e-05] w = [-0.07644157 0.88804195 2.18839962] w\_new= [-0.07644209 0.88804183 2.18840025]

gradient= [-5.11996716e-05 -1.19385771e-05 6.31382488e-05] w = [-0.07644209 0.88804183 2.18840025] w\_new= [-0.0764426 0.88804171 2.18840088]

gradient= [-5.11279943e-05 -1.19231354e-05 6.30511298e-05] w = [-0.0764426 0.88804171 2.18840088] w\_new= [-0.07644311 0.8880416 2.18840151]

gradient= [-5.10564175e-05 -1.19077135e-05 6.29641310e-05] w = [-0.07644311 0.8880416 2.18840151] w\_new= [-0.07644362 0.88804148 2.18840214]

gradient= [-5.09849409e-05 -1.18923112e-05 6.28772522e-05] w = [-0.07644362 0.88804148 2.18840214] w\_new= [-0.07644413 0.88804136 2.18840277]

gradient= [-5.09135646e-05 -1.18769287e-05 6.27904933e-05] w = [-0.07644413 0.88804136 2.18840277] w\_new= [-0.07644464 0.88804124 2.1884034 ]

gradient= [-5.08422883e-05 -1.18615658e-05 6.27038541e-05] w = [-0.07644464 0.88804124 2.1884034 ] w\_new= [-0.07644515 0.88804112 2.18840403]

gradient= [-5.07711119e-05 -1.18462225e-05 6.26173344e-05] w = [-0.07644515 0.88804112 2.18840403] w\_new= [-0.07644566 0.888041 2.18840465]

gradient= [-5.07000353e-05 -1.18308988e-05 6.25309341e-05] w = [-0.07644566 0.888041 2.18840465] w\_new= [-0.07644616 0.88804088 2.18840528]

gradient= [-5.06290584e-05 -1.18155946e-05 6.24446530e-05] w = [-0.07644616 0.88804088 2.18840528] w\_new= [-0.07644667 0.88804077 2.1884059 ]

gradient= [-5.05581809e-05 -1.18003101e-05 6.23584909e-05] w = [-0.07644667 0.88804077 2.1884059 ] w\_new= [-0.07644717 0.88804065 2.18840653]

gradient= [-5.04874027e-05 -1.17850450e-05 6.22724478e-05] w = [-0.07644717 0.88804065 2.18840653] w\_new= [-0.07644768 0.88804053 2.18840715]

gradient= [-5.04167238e-05 -1.17697995e-05 6.21865233e-05] w = [-0.07644768 0.88804053 2.18840715] w\_new= [-0.07644818 0.88804041 2.18840777]

gradient= [-5.03461440e-05 -1.17545734e-05 6.21007174e-05] w = [-0.07644818 0.88804041 2.18840777] w\_new= [-0.07644869 0.88804029 2.18840839]

gradient= [-5.02756630e-05 -1.17393668e-05 6.20150298e-05] w = [-0.07644869 0.88804029 2.18840839] w\_new= [-0.07644919 0.88804018 2.18840901]

gradient= [-5.02052809e-05 -1.17241796e-05 6.19294605e-05] w = [-0.07644919 0.88804018 2.18840901] w\_new= [-0.07644969 0.88804006 2.18840963]

gradient= [-5.01349974e-05 -1.17090118e-05 6.18440093e-05] w = [-0.07644969 0.88804006 2.18840963] w\_new= [-0.07645019 0.88803994 2.18841025]

gradient= [-5.00648125e-05 -1.16938634e-05 6.17586759e-05] w = [-0.07645019 0.88803994 2.18841025] w\_new= [-0.07645069 0.88803983 2.18841087]

gradient= [-4.99947259e-05 -1.16787344e-05 6.16734603e-05] w = [-0.07645069 0.88803983 2.18841087] w\_new= [-0.07645119 0.88803971 2.18841148]

gradient= [-4.99247376e-05 -1.16636247e-05 6.15883622e-05] w = [-0.07645119 0.88803971 2.18841148] w\_new= [-0.07645169 0.88803959 2.1884121 ]

gradient= [-4.98548473e-05 -1.16485343e-05 6.15033816e-05] w = [-0.07645169 0.88803959 2.1884121 ] w\_new= [-0.07645219 0.88803948 2.18841272]

gradient= [-4.97850550e-05 -1.16334632e-05 6.14185182e-05] w = [-0.07645219 0.88803948 2.18841272] w\_new= [-0.07645269 0.88803936 2.18841333]

gradient= [-4.97153606e-05 -1.16184113e-05 6.13337719e-05] w = [-0.07645269 0.88803936 2.18841333] w\_new= [-0.07645319 0.88803924 2.18841394]

gradient= [-4.96457638e-05 -1.16033787e-05 6.12491425e-05] w = [-0.07645319 0.88803924 2.18841394] w\_new= [-0.07645368 0.88803913 2.18841456]

gradient= [-4.95762646e-05 -1.15883652e-05 6.11646299e-05] w = [-0.07645368 0.88803913 2.18841456] w\_new= [-0.07645418 0.88803901 2.18841517]

gradient= [-4.95068628e-05 -1.15733710e-05 6.10802338e-05] w = [-0.07645418 0.88803901 2.18841517] w\_new= [-0.07645467 0.8880389 2.18841578]

gradient= [-4.94375583e-05 -1.15583959e-05 6.09959542e-05] w = [-0.07645467 0.8880389 2.18841578] w\_new= [-0.07645517 0.88803878 2.18841639]

gradient= [-4.93683509e-05 -1.15434400e-05 6.09117909e-05] w = [-0.07645517 0.88803878 2.18841639] w\_new= [-0.07645566 0.88803866 2.188417 ]

gradient= [-4.92992406e-05 -1.15285032e-05 6.08277437e-05] w = [-0.07645566 0.88803866 2.188417 ] w\_new= [-0.07645615 0.88803855 2.18841761]

gradient= [-4.92302271e-05 -1.15135854e-05 6.07438125e-05] w = [-0.07645615 0.88803855 2.18841761] w\_new= [-0.07645665 0.88803843 2.18841821]

gradient= [-4.91613103e-05 -1.14986868e-05 6.06599971e-05] w = [-0.07645665 0.88803843 2.18841821] w\_new= [-0.07645714 0.88803832 2.18841882]

gradient= [-4.90924901e-05 -1.14838071e-05 6.05762973e-05] w = [-0.07645714 0.88803832 2.18841882] w\_new= [-0.07645763 0.8880382 2.18841943]

gradient= [-4.90237664e-05 -1.14689465e-05 6.04927130e-05] w = [-0.07645763 0.8880382 2.18841943] w\_new= [-0.07645812 0.88803809 2.18842003]

gradient= [-4.89551390e-05 -1.14541049e-05 6.04092440e-05] w = [-0.07645812 0.88803809 2.18842003] w\_new= [-0.07645861 0.88803797 2.18842063]

gradient= [-4.88866079e-05 -1.14392823e-05 6.03258901e-05] w = [-0.07645861 0.88803797 2.18842063] w\_new= [-0.0764591 0.88803786 2.18842124]

gradient= [-4.88181727e-05 -1.14244786e-05 6.02426513e-05] w = [-0.0764591 0.88803786 2.18842124] w\_new= [-0.07645959 0.88803775 2.18842184]

gradient= [-4.87498335e-05 -1.14096938e-05 6.01595273e-05] w = [-0.07645959 0.88803775 2.18842184] w\_new= [-0.07646007 0.88803763 2.18842244]

gradient= [-4.86815901e-05 -1.13949279e-05 6.00765180e-05] w = [-0.07646007 0.88803763 2.18842244] w\_new= [-0.07646056 0.88803752 2.18842304]

gradient= [-4.86134423e-05 -1.13801809e-05 5.99936232e-05] w = [-0.07646056 0.88803752 2.18842304] w\_new= [-0.07646105 0.8880374 2.18842364]

gradient= [-4.85453901e-05 -1.13654527e-05 5.99108428e-05] w = [-0.07646105 0.8880374 2.18842364] w\_new= [-0.07646153 0.88803729 2.18842424]

gradient= [-4.84774332e-05 -1.13507434e-05 5.98281766e-05] w = [-0.07646153 0.88803729 2.18842424] w\_new= [-0.07646202 0.88803718 2.18842484]

gradient= [-4.84095716e-05 -1.13360529e-05 5.97456245e-05] w = [-0.07646202 0.88803718 2.18842484] w\_new= [-0.0764625 0.88803706 2.18842544]

gradient= [-4.83418051e-05 -1.13213811e-05 5.96631862e-05] w = [-0.0764625 0.88803706 2.18842544] w\_new= [-0.07646298 0.88803695 2.18842603]

gradient= [-4.82741335e-05 -1.13067281e-05 5.95808617e-05] w = [-0.07646298 0.88803695 2.18842603] w\_new= [-0.07646347 0.88803684 2.18842663]

gradient= [-4.82065569e-05 -1.12920939e-05 5.94986508e-05] w = [-0.07646347 0.88803684 2.18842663] w\_new= [-0.07646395 0.88803672 2.18842722]

gradient= [-4.81390749e-05 -1.12774783e-05 5.94165532e-05] w = [-0.07646395 0.88803672 2.18842722] w\_new= [-0.07646443 0.88803661 2.18842782]

gradient= [-4.80716875e-05 -1.12628815e-05 5.93345690e-05] w = [-0.07646443 0.88803661 2.18842782] w\_new= [-0.07646491 0.8880365 2.18842841]

gradient= [-4.80043946e-05 -1.12483033e-05 5.92526979e-05] w = [-0.07646491 0.8880365 2.18842841] w\_new= [-0.07646539 0.88803639 2.188429 ]

gradient= [-4.79371960e-05 -1.12337437e-05 5.91709397e-05] w = [-0.07646539 0.88803639 2.188429 ] w\_new= [-0.07646587 0.88803627 2.1884296 ]

gradient= [-4.78700916e-05 -1.12192027e-05 5.90892943e-05] w = [-0.07646587 0.88803627 2.1884296 ] w\_new= [-0.07646635 0.88803616 2.18843019]

gradient= [-4.78030812e-05 -1.12046804e-05 5.90077616e-05] w = [-0.07646635 0.88803616 2.18843019] w\_new= [-0.07646683 0.88803605 2.18843078]

gradient= [-4.77361648e-05 -1.11901766e-05 5.89263414e-05] w = [-0.07646683 0.88803605 2.18843078] w\_new= [-0.0764673 0.88803594 2.18843137]

gradient= [-4.76693421e-05 -1.11756913e-05 5.88450335e-05] w = [-0.0764673 0.88803594 2.18843137] w\_new= [-0.07646778 0.88803583 2.18843195]

gradient= [-4.76026131e-05 -1.11612246e-05 5.87638377e-05] w = [-0.07646778 0.88803583 2.18843195] w\_new= [-0.07646826 0.88803571 2.18843254]

gradient= [-4.75359777e-05 -1.11467764e-05 5.86827540e-05] w = [-0.07646826 0.88803571 2.18843254] w\_new= [-0.07646873 0.8880356 2.18843313]

gradient= [-4.74694356e-05 -1.11323466e-05 5.86017822e-05] w = [-0.07646873 0.8880356 2.18843313] w\_new= [-0.07646921 0.88803549 2.18843372]

gradient= [-4.74029868e-05 -1.11179353e-05 5.85209221e-05] w = [-0.07646921 0.88803549 2.18843372] w\_new= [-0.07646968 0.88803538 2.1884343 ]

gradient= [-4.73366311e-05 -1.11035424e-05 5.84401735e-05] w = [-0.07646968 0.88803538 2.1884343 ] w\_new= [-0.07647015 0.88803527 2.18843488]

gradient= [-4.72703684e-05 -1.10891680e-05 5.83595364e-05] w = [-0.07647015 0.88803527 2.18843488] w\_new= [-0.07647063 0.88803516 2.18843547]

gradient= [-4.72041986e-05 -1.10748119e-05 5.82790105e-05] w = [-0.07647063 0.88803516 2.18843547] w\_new= [-0.0764711 0.88803505 2.18843605]

gradient= [-4.71381215e-05 -1.10604741e-05 5.81985957e-05] w = [-0.0764711 0.88803505 2.18843605] w\_new= [-0.07647157 0.88803494 2.18843663]

gradient= [-4.70721371e-05 -1.10461547e-05 5.81182918e-05] w = [-0.07647157 0.88803494 2.18843663] w\_new= [-0.07647204 0.88803483 2.18843721]

gradient= [-4.70062451e-05 -1.10318536e-05 5.80380988e-05] w = [-0.07647204 0.88803483 2.18843721] w\_new= [-0.07647251 0.88803472 2.18843779]

gradient= [-4.69404455e-05 -1.10175708e-05 5.79580163e-05] w = [-0.07647251 0.88803472 2.18843779] w\_new= [-0.07647298 0.88803461 2.18843837]

gradient= [-4.68747381e-05 -1.10033063e-05 5.78780444e-05] w = [-0.07647298 0.88803461 2.18843837] w\_new= [-0.07647345 0.8880345 2.18843895]

gradient= [-4.68091228e-05 -1.09890600e-05 5.77981828e-05] w = [-0.07647345 0.8880345 2.18843895] w\_new= [-0.07647392 0.88803439 2.18843953]

gradient= [-4.67435994e-05 -1.09748320e-05 5.77184314e-05] w = [-0.07647392 0.88803439 2.18843953] w\_new= [-0.07647439 0.88803428 2.18844011]

gradient= [-4.66781679e-05 -1.09606221e-05 5.76387900e-05] w = [-0.07647439 0.88803428 2.18844011] w\_new= [-0.07647485 0.88803417 2.18844068]

gradient= [-4.66128281e-05 -1.09464304e-05 5.75592585e-05] w = [-0.07647485 0.88803417 2.18844068] w\_new= [-0.07647532 0.88803406 2.18844126]

gradient= [-4.65475799e-05 -1.09322569e-05 5.74798368e-05] w = [-0.07647532 0.88803406 2.18844126] w\_new= [-0.07647578 0.88803395 2.18844184]

gradient= [-4.64824231e-05 -1.09181014e-05 5.74005246e-05] w = [-0.07647578 0.88803395 2.18844184] w\_new= [-0.07647625 0.88803384 2.18844241]

gradient= [-4.64173577e-05 -1.09039641e-05 5.73213218e-05] w = [-0.07647625 0.88803384 2.18844241] w\_new= [-0.07647671 0.88803373 2.18844298]

gradient= [-4.63523834e-05 -1.08898449e-05 5.72422283e-05] w = [-0.07647671 0.88803373 2.18844298] w\_new= [-0.07647718 0.88803362 2.18844355]

gradient= [-4.62875002e-05 -1.08757437e-05 5.71632439e-05] w = [-0.07647718 0.88803362 2.18844355] w\_new= [-0.07647764 0.88803351 2.18844413]

gradient= [-4.62227079e-05 -1.08616606e-05 5.70843685e-05] w = [-0.07647764 0.88803351 2.18844413] w\_new= [-0.0764781 0.8880334 2.1884447]

gradient= [-4.61580065e-05 -1.08475955e-05 5.70056019e-05] w = [-0.0764781 0.8880334 2.1884447] w\_new= [-0.07647856 0.8880333 2.18844527]

gradient= [-4.60933957e-05 -1.08335484e-05 5.69269440e-05] w = [-0.07647856 0.8880333 2.18844527] w\_new= [-0.07647902 0.88803319 2.18844584]

gradient= [-4.60288754e-05 -1.08195192e-05 5.68483947e-05] w = [-0.07647902 0.88803319 2.18844584] w\_new= [-0.07647948 0.88803308 2.18844641]

gradient= [-4.59644456e-05 -1.08055080e-05 5.67699536e-05] w = [-0.07647948 0.88803308 2.18844641] w\_new= [-0.07647994 0.88803297 2.18844697]

gradient= [-4.59001061e-05 -1.07915147e-05 5.66916209e-05] w = [-0.07647994 0.88803297 2.18844697] w\_new= [-0.0764804 0.88803286 2.18844754]

gradient= [-4.58358568e-05 -1.07775393e-05 5.66133961e-05] w = [-0.0764804 0.88803286 2.18844754] w\_new= [-0.07648086 0.88803276 2.18844811]

gradient= [-4.57716975e-05 -1.07635818e-05 5.65352793e-05] w = [-0.07648086 0.88803276 2.18844811] w\_new= [-0.07648132 0.88803265 2.18844867]

gradient= [-4.57076281e-05 -1.07496422e-05 5.64572703e-05] w = [-0.07648132 0.88803265 2.18844867] w\_new= [-0.07648178 0.88803254 2.18844924]

gradient= [-4.56436486e-05 -1.07357204e-05 5.63793689e-05] w = [-0.07648178 0.88803254 2.18844924] w\_new= [-0.07648223 0.88803243 2.1884498 ]

gradient= [-4.55797587e-05 -1.07218164e-05 5.63015750e-05] w = [-0.07648223 0.88803243 2.1884498 ] w\_new= [-0.07648269 0.88803233 2.18845036]

gradient= [-4.55159583e-05 -1.07079302e-05 5.62238885e-05] w = [-0.07648269 0.88803233 2.18845036] w\_new= [-0.07648314 0.88803222 2.18845092]

gradient= [-4.54522473e-05 -1.06940617e-05 5.61463091e-05] w = [-0.07648314 0.88803222 2.18845092] w\_new= [-0.0764836 0.88803211 2.18845149]

gradient= [-4.53886257e-05 -1.06802110e-05 5.60688367e-05] w = [-0.0764836 0.88803211 2.18845149] w\_new= [-0.07648405 0.888032 2.18845205]

gradient= [-4.53250932e-05 -1.06663780e-05 5.59914712e-05] w = [-0.07648405 0.888032 2.18845205] w\_new= [-0.07648451 0.8880319 2.18845261]

gradient= [-4.52616497e-05 -1.06525628e-05 5.59142125e-05] w = [-0.07648451 0.8880319 2.18845261] w\_new= [-0.07648496 0.88803179 2.18845317]

gradient= [-4.51982952e-05 -1.06387652e-05 5.58370603e-05] w = [-0.07648496 0.88803179 2.18845317] w\_new= [-0.07648541 0.88803169 2.18845372]

gradient= [-4.51350294e-05 -1.06249852e-05 5.57600146e-05] w = [-0.07648541 0.88803169 2.18845372] w\_new= [-0.07648586 0.88803158 2.18845428]

gradient= [-4.50718523e-05 -1.06112229e-05 5.56830752e-05] w = [-0.07648586 0.88803158 2.18845428] w\_new= [-0.07648631 0.88803147 2.18845484]

gradient= [-4.50087638e-05 -1.05974782e-05 5.56062420e-05] w = [-0.07648631 0.88803147 2.18845484] w\_new= [-0.07648676 0.88803137 2.18845539]

gradient= [-4.49457637e-05 -1.05837511e-05 5.55295147e-05] w = [-0.07648676 0.88803137 2.18845539] w\_new= [-0.07648721 0.88803126 2.18845595]

gradient= [-4.48828518e-05 -1.05700415e-05 5.54528934e-05] w = [-0.07648721 0.88803126 2.18845595] w\_new= [-0.07648766 0.88803116 2.1884565 ]

gradient= [-4.48200282e-05 -1.05563495e-05 5.53763777e-05] w = [-0.07648766 0.88803116 2.1884565 ] w\_new= [-0.07648811 0.88803105 2.18845706]

gradient= [-4.47572925e-05 -1.05426750e-05 5.52999676e-05] w = [-0.07648811 0.88803105 2.18845706] w\_new= [-0.07648856 0.88803094 2.18845761]

gradient= [-4.46946448e-05 -1.05290181e-05 5.52236629e-05] w = [-0.07648856 0.88803094 2.18845761] w\_new= [-0.076489 0.88803084 2.18845816]

gradient= [-4.46320849e-05 -1.05153785e-05 5.51474635e-05] w = [-0.076489 0.88803084 2.18845816] w\_new= [-0.07648945 0.88803073 2.18845872]

gradient= [-4.45696127e-05 -1.05017565e-05 5.50713692e-05] w = [-0.07648945 0.88803073 2.18845872] w\_new= [-0.07648989 0.88803063 2.18845927]

gradient= [-4.45072280e-05 -1.04881519e-05 5.49953799e-05] w = [-0.07648989 0.88803063 2.18845927] w\_new= [-0.07649034 0.88803052 2.18845982]

gradient= [-4.44449308e-05 -1.04745647e-05 5.49194954e-05] w = [-0.07649034 0.88803052 2.18845982] w\_new= [-0.07649078 0.88803042 2.18846037]

gradient= [-4.43827208e-05 -1.04609949e-05 5.48437157e-05] w = [-0.07649078 0.88803042 2.18846037] w\_new= [-0.07649123 0.88803031 2.18846091]

gradient= [-4.43205981e-05 -1.04474424e-05 5.47680405e-05] w = [-0.07649123 0.88803031 2.18846091] w\_new= [-0.07649167 0.88803021 2.18846146]

gradient= [-4.42585624e-05 -1.04339073e-05 5.46924697e-05] w = [-0.07649167 0.88803021 2.18846146] w\_new= [-0.07649211 0.88803011 2.18846201]

gradient= [-4.41966136e-05 -1.04203895e-05 5.46170031e-05] w = [-0.07649211 0.88803011 2.18846201] w\_new= [-0.07649256 0.88803 2.18846255]

gradient= [-4.41347517e-05 -1.04068891e-05 5.45416407e-05] w = [-0.07649256 0.88803 2.18846255] w\_new= [-0.076493 0.8880299 2.1884631]

gradient= [-4.40729764e-05 -1.03934059e-05 5.44663823e-05] w = [-0.076493 0.8880299 2.1884631] w\_new= [-0.07649344 0.88802979 2.18846364]

gradient= [-4.40112877e-05 -1.03799399e-05 5.43912277e-05] w = [-0.07649344 0.88802979 2.18846364] w\_new= [-0.07649388 0.88802969 2.18846419]

gradient= [-4.39496855e-05 -1.03664912e-05 5.43161767e-05] w = [-0.07649388 0.88802969 2.18846419] w\_new= [-0.07649432 0.88802959 2.18846473]

gradient= [-4.38881696e-05 -1.03530598e-05 5.42412294e-05] w = [-0.07649432 0.88802959 2.18846473] w\_new= [-0.07649476 0.88802948 2.18846527]

gradient= [-4.38267399e-05 -1.03396455e-05 5.41663854e-05] w = [-0.07649476 0.88802948 2.18846527] w\_new= [-0.07649519 0.88802938 2.18846582]

gradient= [-4.37653963e-05 -1.03262483e-05 5.40916447e-05] w = [-0.07649519 0.88802938 2.18846582] w\_new= [-0.07649563 0.88802928 2.18846636]

gradient= [-4.37041387e-05 -1.03128684e-05 5.40170071e-05] w = [-0.07649563 0.88802928 2.18846636] w\_new= [-0.07649607 0.88802917 2.1884669 ]

gradient= [-4.36429669e-05 -1.02995055e-05 5.39424724e-05] w = [-0.07649607 0.88802917 2.1884669 ] w\_new= [-0.07649651 0.88802907 2.18846744]

gradient= [-4.35818808e-05 -1.02861598e-05 5.38680407e-05] w = [-0.07649651 0.88802907 2.18846744] w\_new= [-0.07649694 0.88802897 2.18846797]

gradient= [-4.35208804e-05 -1.02728312e-05 5.37937116e-05] w = [-0.07649694 0.88802897 2.18846797] w\_new= [-0.07649738 0.88802886 2.18846851]

gradient= [-4.34599654e-05 -1.02595196e-05 5.37194850e-05] w = [-0.07649738 0.88802886 2.18846851] w\_new= [-0.07649781 0.88802876 2.18846905]

gradient= [-4.33991358e-05 -1.02462250e-05 5.36453609e-05] w = [-0.07649781 0.88802876 2.18846905] w\_new= [-0.07649825 0.88802866 2.18846959]

gradient= [-4.33383915e-05 -1.02329475e-05 5.35713390e-05] w = [-0.07649825 0.88802866 2.18846959] w\_new= [-0.07649868 0.88802856 2.18847012]

gradient= [-4.32777322e-05 -1.02196870e-05 5.34974192e-05] w = [-0.07649868 0.88802856 2.18847012] w\_new= [-0.07649911 0.88802845 2.18847066]

gradient= [-4.32171580e-05 -1.02064435e-05 5.34236015e-05] w = [-0.07649911 0.88802845 2.18847066] w\_new= [-0.07649954 0.88802835 2.18847119]

gradient= [-4.31566687e-05 -1.01932169e-05 5.33498856e-05] w = [-0.07649954 0.88802835 2.18847119] w\_new= [-0.07649998 0.88802825 2.18847172]

gradient= [-4.30962641e-05 -1.01800072e-05 5.32762714e-05] w = [-0.07649998 0.88802825 2.18847172] w\_new= [-0.07650041 0.88802815 2.18847226]

gradient= [-4.30359442e-05 -1.01668145e-05 5.32027587e-05] w = [-0.07650041 0.88802815 2.18847226] w\_new= [-0.07650084 0.88802805 2.18847279]

gradient= [-4.29757088e-05 -1.01536387e-05 5.31293475e-05] w = [-0.07650084 0.88802805 2.18847279] w\_new= [-0.07650127 0.88802795 2.18847332]

gradient= [-4.29155578e-05 -1.01404797e-05 5.30560375e-05] w = [-0.07650127 0.88802795 2.18847332] w\_new= [-0.0765017 0.88802784 2.18847385]

gradient= [-4.28554912e-05 -1.01273376e-05 5.29828287e-05] w = [-0.0765017 0.88802784 2.18847385] w\_new= [-0.07650212 0.88802774 2.18847438]

gradient= [-4.27955087e-05 -1.01142123e-05 5.29097209e-05] w = [-0.07650212 0.88802774 2.18847438] w\_new= [-0.07650255 0.88802764 2.18847491]

gradient= [-4.27356102e-05 -1.01011038e-05 5.28367140e-05] w = [-0.07650255 0.88802764 2.18847491] w\_new= [-0.07650298 0.88802754 2.18847544]

gradient= [-4.26757957e-05 -1.00880121e-05 5.27638078e-05] w = [-0.07650298 0.88802754 2.18847544] w\_new= [-0.07650341 0.88802744 2.18847597]

gradient= [-4.26160650e-05 -1.00749371e-05 5.26910022e-05] w = [-0.07650341 0.88802744 2.18847597] w\_new= [-0.07650383 0.88802734 2.18847649]

gradient= [-4.2556418e-05 -1.0061879e-05 5.2618297e-05] w = [-0.07650383 0.88802734 2.18847649] w\_new= [-0.07650426 0.88802724 2.18847702]

gradient= [-4.24968546e-05 -1.00488375e-05 5.25456921e-05] w = [-0.07650426 0.88802724 2.18847702] w\_new= [-0.07650468 0.88802714 2.18847754]

gradient= [-4.24373747e-05 -1.00358127e-05 5.24731874e-05] w = [-0.07650468 0.88802714 2.18847754] w\_new= [-0.07650511 0.88802704 2.18847807]

gradient= [-4.23779781e-05 -1.00228046e-05 5.24007828e-05] w = [-0.07650511 0.88802704 2.18847807] w\_new= [-0.07650553 0.88802694 2.18847859]

gradient= [-4.23186648e-05 -1.00098132e-05 5.23284780e-05] w = [-0.07650553 0.88802694 2.18847859] w\_new= [-0.07650595 0.88802684 2.18847912]

gradient= [-4.22594346e-05 -9.99683843e-06 5.22562730e-05] w = [-0.07650595 0.88802684 2.18847912] w\_new= [-0.07650638 0.88802674 2.18847964]

gradient= [-4.22002874e-05 -9.98388026e-06 5.21841676e-05] w = [-0.07650638 0.88802674 2.18847964] w\_new= [-0.0765068 0.88802664 2.18848016]

gradient= [-4.21412230e-05 -9.97093869e-06 5.21121617e-05] w = [-0.0765068 0.88802664 2.18848016] w\_new= [-0.07650722 0.88802654 2.18848068]

gradient= [-4.20822415e-05 -9.95801369e-06 5.20402551e-05] w = [-0.07650722 0.88802654 2.18848068] w\_new= [-0.07650764 0.88802644 2.1884812 ]

gradient= [-4.20233425e-05 -9.94510525e-06 5.19684478e-05] w = [-0.07650764 0.88802644 2.1884812 ] w\_new= [-0.07650806 0.88802634 2.18848172]

gradient= [-4.19645262e-05 -9.93221334e-06 5.18967395e-05] w = [-0.07650806 0.88802634 2.18848172] w\_new= [-0.07650848 0.88802624 2.18848224]

gradient= [-4.19057922e-05 -9.91933795e-06 5.18251301e-05] w = [-0.07650848 0.88802624 2.18848224] w\_new= [-0.0765089 0.88802614 2.18848276]

gradient= [-4.18471405e-05 -9.90647905e-06 5.17536196e-05] w = [-0.0765089 0.88802614 2.18848276] w\_new= [-0.07650932 0.88802604 2.18848328]

gradient= [-4.17885711e-05 -9.89363662e-06 5.16822077e-05] w = [-0.07650932 0.88802604 2.18848328] w\_new= [-0.07650974 0.88802594 2.18848379]

gradient= [-4.17300837e-05 -9.88081064e-06 5.16108943e-05] w = [-0.07650974 0.88802594 2.18848379] w\_new= [-0.07651015 0.88802584 2.18848431]

gradient= [-4.16716783e-05 -9.86800109e-06 5.15396793e-05] w = [-0.07651015 0.88802584 2.18848431] w\_new= [-0.07651057 0.88802574 2.18848483]

gradient= [-4.16133547e-05 -9.85520795e-06 5.14685626e-05] w = [-0.07651057 0.88802574 2.18848483] w\_new= [-0.07651099 0.88802565 2.18848534]

gradient= [-4.15551128e-05 -9.84243119e-06 5.13975440e-05] w = [-0.07651099 0.88802565 2.18848534] w\_new= [-0.0765114 0.88802555 2.18848585]

gradient= [-4.14969526e-05 -9.82967081e-06 5.13266234e-05] w = [-0.0765114 0.88802555 2.18848585] w\_new= [-0.07651182 0.88802545 2.18848637]

gradient= [-4.14388738e-05 -9.81692677e-06 5.12558006e-05] w = [-0.07651182 0.88802545 2.18848637] w\_new= [-0.07651223 0.88802535 2.18848688]

gradient= [-4.13808765e-05 -9.80419906e-06 5.11850755e-05] w = [-0.07651223 0.88802535 2.18848688] w\_new= [-0.07651265 0.88802525 2.18848739]

gradient= [-4.13229604e-05 -9.79148766e-06 5.11144480e-05] w = [-0.07651265 0.88802525 2.18848739] w\_new= [-0.07651306 0.88802516 2.1884879 ]

gradient= [-4.12651254e-05 -9.77879254e-06 5.10439180e-05] w = [-0.07651306 0.88802516 2.1884879 ] w\_new= [-0.07651347 0.88802506 2.18848841]

gradient= [-4.12073716e-05 -9.76611368e-06 5.09734852e-05] w = [-0.07651347 0.88802506 2.18848841] w\_new= [-0.07651388 0.88802496 2.18848892]

gradient= [-4.11496986e-05 -9.75345107e-06 5.09031497e-05] w = [-0.07651388 0.88802496 2.18848892] w\_new= [-0.07651429 0.88802486 2.18848943]

gradient= [-4.10921065e-05 -9.74080468e-06 5.08329111e-05] w = [-0.07651429 0.88802486 2.18848943] w\_new= [-0.07651471 0.88802477 2.18848994]

gradient= [-4.10345950e-05 -9.72817450e-06 5.07627695e-05] w = [-0.07651471 0.88802477 2.18848994] w\_new= [-0.07651512 0.88802467 2.18849045]

gradient= [-4.09771642e-05 -9.71556050e-06 5.06927247e-05] w = [-0.07651512 0.88802467 2.18849045] w\_new= [-0.07651553 0.88802457 2.18849096]

gradient= [-4.09198138e-05 -9.70296266e-06 5.06227765e-05] w = [-0.07651553 0.88802457 2.18849096] w\_new= [-0.07651593 0.88802447 2.18849146]

gradient= [-4.08625438e-05 -9.69038097e-06 5.05529248e-05] w = [-0.07651593 0.88802447 2.18849146] w\_new= [-0.07651634 0.88802438 2.18849197]

gradient= [-4.08053540e-05 -9.67781539e-06 5.04831694e-05] w = [-0.07651634 0.88802438 2.18849197] w\_new= [-0.07651675 0.88802428 2.18849247]

gradient= [-4.07482444e-05 -9.66526592e-06 5.04135103e-05] w = [-0.07651675 0.88802428 2.18849247] w\_new= [-0.07651716 0.88802418 2.18849298]

gradient= [-4.06912148e-05 -9.65273252e-06 5.03439473e-05] w = [-0.07651716 0.88802418 2.18849298] w\_new= [-0.07651757 0.88802409 2.18849348]

gradient= [-4.06342651e-05 -9.64021519e-06 5.02744803e-05] w = [-0.07651757 0.88802409 2.18849348] w\_new= [-0.07651797 0.88802399 2.18849398]

gradient= [-4.05773953e-05 -9.62771390e-06 5.02051092e-05] w = [-0.07651797 0.88802399 2.18849398] w\_new= [-0.07651838 0.88802389 2.18849448]

gradient= [-4.05206051e-05 -9.61522863e-06 5.01358337e-05] w = [-0.07651838 0.88802389 2.18849448] w\_new= [-0.07651878 0.8880238 2.18849499]

gradient= [-4.04638944e-05 -9.60275936e-06 5.00666538e-05] w = [-0.07651878 0.8880238 2.18849499] w\_new= [-0.07651919 0.8880237 2.18849549]

gradient= [-4.04072633e-05 -9.59030607e-06 4.99975694e-05] w = [-0.07651919 0.8880237 2.18849549] w\_new= [-0.07651959 0.88802361 2.18849599]

gradient= [-4.03507115e-05 -9.57786874e-06 4.99285802e-05] w = [-0.07651959 0.88802361 2.18849599] w\_new= [-0.07652 0.88802351 2.18849649]

gradient= [-4.02942389e-05 -9.56544734e-06 4.98596863e-05] w = [-0.07652 0.88802351 2.18849649] w\_new= [-0.0765204 0.88802341 2.18849698]

gradient= [-4.02378455e-05 -9.55304187e-06 4.97908874e-05] w = [-0.0765204 0.88802341 2.18849698] w\_new= [-0.0765208 0.88802332 2.18849748]

gradient= [-4.01815311e-05 -9.54065230e-06 4.97221834e-05] w = [-0.0765208 0.88802332 2.18849748] w\_new= [-0.0765212 0.88802322 2.18849798]

gradient= [-4.01252956e-05 -9.52827860e-06 4.96535742e-05] w = [-0.0765212 0.88802322 2.18849798] w\_new= [-0.0765216 0.88802313 2.18849848]

gradient= [-4.00691389e-05 -9.51592077e-06 4.95850597e-05] w = [-0.0765216 0.88802313 2.18849848] w\_new= [-0.076522 0.88802303 2.18849897]

gradient= [-4.00130609e-05 -9.50357877e-06 4.95166397e-05] w = [-0.076522 0.88802303 2.18849897] w\_new= [-0.0765224 0.88802294 2.18849947]

gradient= [-3.99570615e-05 -9.49125259e-06 4.94483141e-05] w = [-0.0765224 0.88802294 2.18849947] w\_new= [-0.0765228 0.88802284 2.18849996]

gradient= [-3.99011405e-05 -9.47894221e-06 4.93800828e-05] w = [-0.0765228 0.88802284 2.18849996] w\_new= [-0.0765232 0.88802275 2.18850045]

gradient= [-3.98452979e-05 -9.46664761e-06 4.93119456e-05] w = [-0.0765232 0.88802275 2.18850045] w\_new= [-0.0765236 0.88802265 2.18850095]

gradient= [-3.97895336e-05 -9.45436877e-06 4.92439024e-05] w = [-0.0765236 0.88802265 2.18850095] w\_new= [-0.076524 0.88802256 2.18850144]

gradient= [-3.97338474e-05 -9.44210567e-06 4.91759530e-05] w = [-0.076524 0.88802256 2.18850144] w\_new= [-0.0765244 0.88802246 2.18850193]

gradient= [-3.96782392e-05 -9.42985829e-06 4.91080975e-05] w = [-0.0765244 0.88802246 2.18850193] w\_new= [-0.07652479 0.88802237 2.18850242]

gradient= [-3.96227089e-05 -9.41762661e-06 4.90403355e-05] w = [-0.07652479 0.88802237 2.18850242] w\_new= [-0.07652519 0.88802228 2.18850291]

gradient= [-3.95672565e-05 -9.40541061e-06 4.89726671e-05] w = [-0.07652519 0.88802228 2.18850291] w\_new= [-0.07652559 0.88802218 2.1885034 ]

gradient= [-3.95118817e-05 -9.39321026e-06 4.89050920e-05] w = [-0.07652559 0.88802218 2.1885034 ] w\_new= [-0.07652598 0.88802209 2.18850389]

gradient= [-3.94565845e-05 -9.38102556e-06 4.88376101e-05] w = [-0.07652598 0.88802209 2.18850389] w\_new= [-0.07652638 0.88802199 2.18850438]

gradient= [-3.94013648e-05 -9.36885648e-06 4.87702213e-05] w = [-0.07652638 0.88802199 2.18850438] w\_new= [-0.07652677 0.8880219 2.18850487]

gradient= [-3.93462225e-05 -9.35670300e-06 4.87029255e-05] w = [-0.07652677 0.8880219 2.18850487] w\_new= [-0.07652716 0.88802181 2.18850536]

gradient= [-3.92911575e-05 -9.34456510e-06 4.86357226e-05] w = [-0.07652716 0.88802181 2.18850536] w\_new= [-0.07652756 0.88802171 2.18850584]

gradient= [-3.92361696e-05 -9.33244276e-06 4.85686123e-05] w = [-0.07652756 0.88802171 2.18850584] w\_new= [-0.07652795 0.88802162 2.18850633]

gradient= [-3.91812587e-05 -9.32033596e-06 4.85015947e-05] w = [-0.07652795 0.88802162 2.18850633] w\_new= [-0.07652834 0.88802153 2.18850681]

gradient= [-3.91264248e-05 -9.30824469e-06 4.84346695e-05] w = [-0.07652834 0.88802153 2.18850681] w\_new= [-0.07652873 0.88802143 2.1885073 ]

gradient= [-3.90716678e-05 -9.29616891e-06 4.83678367e-05] w = [-0.07652873 0.88802143 2.1885073 ] w\_new= [-0.07652912 0.88802134 2.18850778]

gradient= [-3.90169874e-05 -9.28410862e-06 4.83010960e-05] w = [-0.07652912 0.88802134 2.18850778] w\_new= [-0.07652951 0.88802125 2.18850826]

gradient= [-3.89623837e-05 -9.27206380e-06 4.82344475e-05] w = [-0.07652951 0.88802125 2.18850826] w\_new= [-0.0765299 0.88802116 2.18850875]

gradient= [-3.89078565e-05 -9.26003441e-06 4.81678909e-05] w = [-0.0765299 0.88802116 2.18850875] w\_new= [-0.07653029 0.88802106 2.18850923]

gradient= [-3.88534056e-05 -9.24802045e-06 4.81014261e-05] w = [-0.07653029 0.88802106 2.18850923] w\_new= [-0.07653068 0.88802097 2.18850971]

gradient= [-3.87990311e-05 -9.23602190e-06 4.80350530e-05] w = [-0.07653068 0.88802097 2.18850971] w\_new= [-0.07653107 0.88802088 2.18851019]

gradient= [-3.87447328e-05 -9.22403873e-06 4.79687715e-05] w = [-0.07653107 0.88802088 2.18851019] w\_new= [-0.07653145 0.88802079 2.18851067]

gradient= [-3.86905105e-05 -9.21207093e-06 4.79025814e-05] w = [-0.07653145 0.88802079 2.18851067] w\_new= [-0.07653184 0.88802069 2.18851115]

gradient= [-3.86363642e-05 -9.20011847e-06 4.78364827e-05] w = [-0.07653184 0.88802069 2.18851115] w\_new= [-0.07653223 0.8880206 2.18851163]

gradient= [-3.85822938e-05 -9.18818134e-06 4.77704751e-05] w = [-0.07653223 0.8880206 2.18851163] w\_new= [-0.07653261 0.88802051 2.1885121 ]

gradient= [-3.85282991e-05 -9.17625952e-06 4.77045587e-05] w = [-0.07653261 0.88802051 2.1885121 ] w\_new= [-0.076533 0.88802042 2.18851258]

gradient= [-3.84743801e-05 -9.16435299e-06 4.76387331e-05] w = [-0.076533 0.88802042 2.18851258] w\_new= [-0.07653338 0.88802033 2.18851306]

gradient= [-3.84205367e-05 -9.15246172e-06 4.75729984e-05] w = [-0.07653338 0.88802033 2.18851306] w\_new= [-0.07653377 0.88802024 2.18851353]

gradient= [-3.83667687e-05 -9.14058571e-06 4.75073544e-05] w = [-0.07653377 0.88802024 2.18851353] w\_new= [-0.07653415 0.88802014 2.18851401]

gradient= [-3.83130760e-05 -9.12872492e-06 4.74418009e-05] w = [-0.07653415 0.88802014 2.18851401] w\_new= [-0.07653453 0.88802005 2.18851448]

gradient= [-3.82594586e-05 -9.11687935e-06 4.73763379e-05] w = [-0.07653453 0.88802005 2.18851448] w\_new= [-0.07653492 0.88801996 2.18851496]

gradient= [-3.82059162e-05 -9.10504897e-06 4.73109652e-05] w = [-0.07653492 0.88801996 2.18851496] w\_new= [-0.0765353 0.88801987 2.18851543]

gradient= [-3.81524489e-05 -9.09323376e-06 4.72456827e-05] w = [-0.0765353 0.88801987 2.18851543] w\_new= [-0.07653568 0.88801978 2.1885159 ]

gradient= [-3.80990566e-05 -9.08143371e-06 4.71804903e-05] w = [-0.07653568 0.88801978 2.1885159 ] w\_new= [-0.07653606 0.88801969 2.18851637]

gradient= [-3.80457390e-05 -9.06964879e-06 4.71153878e-05] w = [-0.07653606 0.88801969 2.18851637] w\_new= [-0.07653644 0.8880196 2.18851684]

gradient= [-3.79924961e-05 -9.05787898e-06 4.70503751e-05] w = [-0.07653644 0.8880196 2.18851684] w\_new= [-0.07653682 0.88801951 2.18851732]

gradient= [-3.79393278e-05 -9.04612427e-06 4.69854521e-05] w = [-0.07653682 0.88801951 2.18851732] w\_new= [-0.0765372 0.88801942 2.18851779]

gradient= [-3.78862341e-05 -9.03438464e-06 4.69206187e-05] w = [-0.0765372 0.88801942 2.18851779] w\_new= [-0.07653758 0.88801933 2.18851825]

gradient= [-3.78332147e-05 -9.02266007e-06 4.68558747e-05] w = [-0.07653758 0.88801933 2.18851825] w\_new= [-0.07653796 0.88801924 2.18851872]

gradient= [-3.77802696e-05 -9.01095053e-06 4.67912201e-05] w = [-0.07653796 0.88801924 2.18851872] w\_new= [-0.07653834 0.88801915 2.18851919]

gradient= [-3.77273987e-05 -8.99925602e-06 4.67266547e-05] w = [-0.07653834 0.88801915 2.18851919] w\_new= [-0.07653871 0.88801906 2.18851966]

gradient= [-3.76746018e-05 -8.98757651e-06 4.66621783e-05] w = [-0.07653871 0.88801906 2.18851966] w\_new= [-0.07653909 0.88801897 2.18852012]

gradient= [-3.76218790e-05 -8.97591198e-06 4.65977909e-05] w = [-0.07653909 0.88801897 2.18852012] w\_new= [-0.07653947 0.88801888 2.18852059]

gradient= [-3.75692300e-05 -8.96426241e-06 4.65334924e-05] w = [-0.07653947 0.88801888 2.18852059] w\_new= [-0.07653984 0.88801879 2.18852106]

gradient= [-3.75166547e-05 -8.95262778e-06 4.64692825e-05] w = [-0.07653984 0.88801879 2.18852106] w\_new= [-0.07654022 0.8880187 2.18852152]

gradient= [-3.74641532e-05 -8.94100809e-06 4.64051612e-05] w = [-0.07654022 0.8880187 2.18852152] w\_new= [-0.07654059 0.88801861 2.18852198]

gradient= [-3.74117252e-05 -8.92940329e-06 4.63411284e-05] w = [-0.07654059 0.88801861 2.18852198] w\_new= [-0.07654097 0.88801852 2.18852245]

gradient= [-3.73593706e-05 -8.91781339e-06 4.62771840e-05] w = [-0.07654097 0.88801852 2.18852245] w\_new= [-0.07654134 0.88801843 2.18852291]

gradient= [-3.73070894e-05 -8.90623836e-06 4.62133278e-05] w = [-0.07654134 0.88801843 2.18852291] w\_new= [-0.07654171 0.88801834 2.18852337]

gradient= [-3.72548815e-05 -8.89467817e-06 4.61495596e-05] w = [-0.07654171 0.88801834 2.18852337] w\_new= [-0.07654209 0.88801825 2.18852383]

gradient= [-3.72027467e-05 -8.88313282e-06 4.60858795e-05] w = [-0.07654209 0.88801825 2.18852383] w\_new= [-0.07654246 0.88801816 2.1885243 ]

gradient= [-3.71506849e-05 -8.87160228e-06 4.60222872e-05] w = [-0.07654246 0.88801816 2.1885243 ] w\_new= [-0.07654283 0.88801807 2.18852476]

gradient= [-3.70986961e-05 -8.86008653e-06 4.59587826e-05] w = [-0.07654283 0.88801807 2.18852476] w\_new= [-0.0765432 0.88801799 2.18852522]

gradient= [-3.70467801e-05 -8.84858556e-06 4.58953657e-05] w = [-0.0765432 0.88801799 2.18852522] w\_new= [-0.07654357 0.8880179 2.18852567]

gradient= [-3.69949369e-05 -8.83709934e-06 4.58320362e-05] w = [-0.07654357 0.8880179 2.18852567] w\_new= [-0.07654394 0.88801781 2.18852613]

gradient= [-3.69431663e-05 -8.82562786e-06 4.57687941e-05] w = [-0.07654394 0.88801781 2.18852613] w\_new= [-0.07654431 0.88801772 2.18852659]

gradient= [-3.68914682e-05 -8.81417110e-06 4.57056393e-05] w = [-0.07654431 0.88801772 2.18852659] w\_new= [-0.07654468 0.88801763 2.18852705]

gradient= [-3.68398426e-05 -8.80272904e-06 4.56425716e-05] w = [-0.07654468 0.88801763 2.18852705] w\_new= [-0.07654505 0.88801754 2.1885275 ]

gradient= [-3.67882893e-05 -8.79130167e-06 4.55795909e-05] w = [-0.07654505 0.88801754 2.1885275 ] w\_new= [-0.07654542 0.88801746 2.18852796]

gradient= [-3.67368082e-05 -8.77988895e-06 4.55166972e-05] w = [-0.07654542 0.88801746 2.18852796] w\_new= [-0.07654578 0.88801737 2.18852841]

gradient= [-3.66853993e-05 -8.76849089e-06 4.54538901e-05] w = [-0.07654578 0.88801737 2.18852841] w\_new= [-0.07654615 0.88801728 2.18852887]

gradient= [-3.66340623e-05 -8.75710744e-06 4.53911698e-05] w = [-0.07654615 0.88801728 2.18852887] w\_new= [-0.07654652 0.88801719 2.18852932]

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gradient= [-3.59731910e-05 -8.61044531e-06 4.45836363e-05] w = [-0.07655087 0.88801615 2.18853472] w\_new= [-0.07655123 0.88801606 2.18853517]

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gradient= [-3.40613327e-05 -8.18487192e-06 4.22462046e-05] w = [-0.07656454 0.88801287 2.18855166] w\_new= [-0.07656488 0.88801279 2.18855208]

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gradient= [-3.36347825e-05 -8.08965484e-06 4.17244374e-05] w = [-0.07656758 0.88801214 2.18855544] w\_new= [-0.07656792 0.88801206 2.18855586]

gradient= [-3.35877194e-05 -8.07914300e-06 4.16668624e-05] w = [-0.07656792 0.88801206 2.18855586] w\_new= [-0.07656826 0.88801198 2.18855628]

gradient= [-3.35407222e-05 -8.06864467e-06 4.16093669e-05] w = [-0.07656826 0.88801198 2.18855628] w\_new= [-0.07656859 0.8880119 2.18855669]

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gradient= [-3.34469253e-05 -8.04768845e-06 4.14946137e-05] w = [-0.07656893 0.88801182 2.18855711] w\_new= [-0.07656926 0.88801174 2.18855752]

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gradient= [-3.30743562e-05 -7.96440035e-06 4.10387566e-05] w = [-0.07657159 0.88801118 2.18856041] w\_new= [-0.07657192 0.8880111 2.18856082]

gradient= [-3.30280782e-05 -7.95404945e-06 4.09821276e-05] w = [-0.07657192 0.8880111 2.18856082] w\_new= [-0.07657225 0.88801102 2.18856123]

gradient= [-3.29818650e-05 -7.94371185e-06 4.09255768e-05] w = [-0.07657225 0.88801102 2.18856123] w\_new= [-0.07657258 0.88801094 2.18856164]

gradient= [-3.29357165e-05 -7.93338753e-06 4.08691040e-05] w = [-0.07657258 0.88801094 2.18856164] w\_new= [-0.07657291 0.88801086 2.18856205]

gradient= [-3.28896327e-05 -7.92307648e-06 4.08127092e-05] w = [-0.07657291 0.88801086 2.18856205] w\_new= [-0.07657324 0.88801078 2.18856246]

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gradient= [-3.27976586e-05 -7.90249411e-06 4.07001527e-05] w = [-0.07657357 0.8880107 2.18856287] w\_new= [-0.07657389 0.88801062 2.18856327]

gradient= [-3.27517682e-05 -7.89222276e-06 4.06439910e-05] w = [-0.07657389 0.88801062 2.18856327] w\_new= [-0.07657422 0.88801054 2.18856368]

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gradient= [-3.26144823e-05 -7.86148784e-06 4.04759701e-05] w = [-0.07657488 0.88801039 2.18856449] w\_new= [-0.0765752 0.88801031 2.18856489]

gradient= [-3.25688484e-05 -7.85126919e-06 4.04201176e-05] w = [-0.0765752 0.88801031 2.18856489] w\_new= [-0.07657553 0.88801023 2.1885653 ]

gradient= [-3.25232785e-05 -7.84106368e-06 4.03643422e-05] w = [-0.07657553 0.88801023 2.1885653 ] w\_new= [-0.07657585 0.88801015 2.1885657 ]

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gradient= [-3.24323301e-05 -7.82069198e-06 4.02530221e-05] w = [-0.07657618 0.88801007 2.18856611] w\_new= [-0.0765765 0.88800999 2.18856651]

gradient= [-3.23869515e-05 -7.81052576e-06 4.01974772e-05] w = [-0.0765765 0.88800999 2.18856651] w\_new= [-0.07657683 0.88800992 2.18856691]

gradient= [-3.23416364e-05 -7.80037261e-06 4.01420090e-05] w = [-0.07657683 0.88800992 2.18856691] w\_new= [-0.07657715 0.88800984 2.18856731]

gradient= [-3.22963848e-05 -7.79023252e-06 4.00866173e-05] w = [-0.07657715 0.88800984 2.18856731] w\_new= [-0.07657747 0.88800976 2.18856771]

gradient= [-3.22511965e-05 -7.78010545e-06 4.00313020e-05] w = [-0.07657747 0.88800976 2.18856771] w\_new= [-0.07657779 0.88800968 2.18856811]

gradient= [-3.22060716e-05 -7.76999141e-06 3.99760630e-05] w = [-0.07657779 0.88800968 2.18856811] w\_new= [-0.07657812 0.8880096 2.18856851]

gradient= [-3.21610099e-05 -7.75989036e-06 3.99209002e-05] w = [-0.07657812 0.8880096 2.18856851] w\_new= [-0.07657844 0.88800953 2.18856891]

gradient= [-3.21160113e-05 -7.74980230e-06 3.98658136e-05] w = [-0.07657844 0.88800953 2.18856891] w\_new= [-0.07657876 0.88800945 2.18856931]

gradient= [-3.20710757e-05 -7.73972721e-06 3.98108029e-05] w = [-0.07657876 0.88800945 2.18856931] w\_new= [-0.07657908 0.88800937 2.18856971]

gradient= [-3.20262031e-05 -7.72966506e-06 3.97558681e-05] w = [-0.07657908 0.88800937 2.18856971] w\_new= [-0.0765794 0.88800929 2.18857011]

gradient= [-3.19813933e-05 -7.71961586e-06 3.97010092e-05] w = [-0.0765794 0.88800929 2.18857011] w\_new= [-0.07657972 0.88800922 2.1885705 ]

gradient= [-3.19366463e-05 -7.70957957e-06 3.96462259e-05] w = [-0.07657972 0.88800922 2.1885705 ] w\_new= [-0.07658004 0.88800914 2.1885709 ]

gradient= [-3.18919620e-05 -7.69955618e-06 3.95915182e-05] w = [-0.07658004 0.88800914 2.1885709 ] w\_new= [-0.07658036 0.88800906 2.1885713 ]

gradient= [-3.18473403e-05 -7.68954568e-06 3.95368859e-05] w = [-0.07658036 0.88800906 2.1885713 ] w\_new= [-0.07658068 0.88800899 2.18857169]

gradient= [-3.18027810e-05 -7.67954805e-06 3.94823291e-05] w = [-0.07658068 0.88800899 2.18857169] w\_new= [-0.07658099 0.88800891 2.18857209]

gradient= [-3.17582842e-05 -7.66956328e-06 3.94278475e-05] w = [-0.07658099 0.88800891 2.18857209] w\_new= [-0.07658131 0.88800883 2.18857248]

gradient= [-3.17138498e-05 -7.65959134e-06 3.93734411e-05] w = [-0.07658131 0.88800883 2.18857248] w\_new= [-0.07658163 0.88800876 2.18857287]

gradient= [-3.16694775e-05 -7.64963222e-06 3.93191098e-05] w = [-0.07658163 0.88800876 2.18857287] w\_new= [-0.07658195 0.88800868 2.18857327]

gradient= [-3.16251675e-05 -7.63968590e-06 3.92648534e-05] w = [-0.07658195 0.88800868 2.18857327] w\_new= [-0.07658226 0.8880086 2.18857366]

gradient= [-3.15809195e-05 -7.62975238e-06 3.92106718e-05] w = [-0.07658226 0.8880086 2.18857366] w\_new= [-0.07658258 0.88800853 2.18857405]

gradient= [-3.15367334e-05 -7.61983162e-06 3.91565651e-05] w = [-0.07658258 0.88800853 2.18857405] w\_new= [-0.07658289 0.88800845 2.18857444]

gradient= [-3.14926093e-05 -7.60992363e-06 3.91025329e-05] w = [-0.07658289 0.88800845 2.18857444] w\_new= [-0.07658321 0.88800837 2.18857483]

gradient= [-3.14485470e-05 -7.60002837e-06 3.90485753e-05] w = [-0.07658321 0.88800837 2.18857483] w\_new= [-0.07658352 0.8880083 2.18857522]

gradient= [-3.14045464e-05 -7.59014583e-06 3.89946922e-05] w = [-0.07658352 0.8880083 2.18857522] w\_new= [-0.07658384 0.88800822 2.18857561]

gradient= [-3.13606074e-05 -7.58027601e-06 3.89408834e-05] w = [-0.07658384 0.88800822 2.18857561] w\_new= [-0.07658415 0.88800815 2.188576 ]

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gradient= [-3.12729140e-05 -7.56057441e-06 3.88334884e-05] w = [-0.07658446 0.88800807 2.18857639] w\_new= [-0.07658478 0.888008 2.18857678]

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gradient= [-3.11854661e-05 -7.54092345e-06 3.87263896e-05] w = [-0.07658509 0.88800792 2.18857717] w\_new= [-0.0765854 0.88800784 2.18857756]

gradient= [-3.11418340e-05 -7.53111692e-06 3.86729510e-05] w = [-0.0765854 0.88800784 2.18857756] w\_new= [-0.07658571 0.88800777 2.18857794]

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gradient= [-3.10547531e-05 -7.51154167e-06 3.85662948e-05] w = [-0.07658602 0.88800769 2.18857833] w\_new= [-0.07658633 0.88800762 2.18857871]

gradient= [-3.10113041e-05 -7.50177293e-06 3.85130770e-05] w = [-0.07658633 0.88800762 2.18857871] w\_new= [-0.07658664 0.88800754 2.1885791 ]

gradient= [-3.09679160e-05 -7.49201674e-06 3.84599327e-05] w = [-0.07658664 0.88800754 2.1885791 ] w\_new= [-0.07658695 0.88800747 2.18857948]

gradient= [-3.09245886e-05 -7.48227311e-06 3.84068617e-05] w = [-0.07658695 0.88800747 2.18857948] w\_new= [-0.07658726 0.88800739 2.18857987]

gradient= [-3.08813219e-05 -7.47254200e-06 3.83538639e-05] w = [-0.07658726 0.88800739 2.18857987] w\_new= [-0.07658757 0.88800732 2.18858025]

gradient= [-3.08381158e-05 -7.46282342e-06 3.83009393e-05] w = [-0.07658757 0.88800732 2.18858025] w\_new= [-0.07658788 0.88800725 2.18858063]

gradient= [-3.07949703e-05 -7.45311733e-06 3.82480876e-05] w = [-0.07658788 0.88800725 2.18858063] w\_new= [-0.07658819 0.88800717 2.18858102]

gradient= [-3.07518852e-05 -7.44342372e-06 3.81953089e-05] w = [-0.07658819 0.88800717 2.18858102] w\_new= [-0.0765885 0.8880071 2.1885814]

gradient= [-3.07088604e-05 -7.43374258e-06 3.81426030e-05] w = [-0.0765885 0.8880071 2.1885814] w\_new= [-0.0765888 0.88800702 2.18858178]

gradient= [-3.06658959e-05 -7.42407390e-06 3.80899698e-05] w = [-0.0765888 0.88800702 2.18858178] w\_new= [-0.07658911 0.88800695 2.18858216]

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gradient= [-3.05801473e-05 -7.40477382e-06 3.79849212e-05] w = [-0.07658942 0.88800687 2.18858254] w\_new= [-0.07658972 0.8880068 2.18858292]

gradient= [-3.05373631e-05 -7.39514240e-06 3.79325055e-05] w = [-0.07658972 0.8880068 2.18858292] w\_new= [-0.07659003 0.88800673 2.1885833 ]

gradient= [-3.04946388e-05 -7.38552336e-06 3.78801622e-05] w = [-0.07659003 0.88800673 2.1885833 ] w\_new= [-0.07659033 0.88800665 2.18858368]

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gradient= [-3.03668247e-05 -7.35674043e-06 3.77235651e-05] w = [-0.07659094 0.8880065 2.18858444] w\_new= [-0.07659124 0.88800643 2.18858481]

gradient= [-3.03243393e-05 -7.34717080e-06 3.76715101e-05] w = [-0.07659124 0.88800643 2.18858481] w\_new= [-0.07659155 0.88800636 2.18858519]

gradient= [-3.02819134e-05 -7.33761347e-06 3.76195268e-05] w = [-0.07659155 0.88800636 2.18858519] w\_new= [-0.07659185 0.88800628 2.18858557]

gradient= [-3.02395469e-05 -7.32806844e-06 3.75676153e-05] w = [-0.07659185 0.88800628 2.18858557] w\_new= [-0.07659215 0.88800621 2.18858594]

gradient= [-3.01972397e-05 -7.31853569e-06 3.75157754e-05] w = [-0.07659215 0.88800621 2.18858594] w\_new= [-0.07659245 0.88800614 2.18858632]

gradient= [-3.01549918e-05 -7.30901520e-06 3.74640070e-05] w = [-0.07659245 0.88800614 2.18858632] w\_new= [-0.07659276 0.88800606 2.18858669]

gradient= [-3.01128031e-05 -7.29950696e-06 3.74123101e-05] w = [-0.07659276 0.88800606 2.18858669] w\_new= [-0.07659306 0.88800599 2.18858707]

gradient= [-3.00706735e-05 -7.29001096e-06 3.73606845e-05] w = [-0.07659306 0.88800599 2.18858707] w\_new= [-0.07659336 0.88800592 2.18858744]

gradient= [-3.00286029e-05 -7.28052717e-06 3.73091301e-05] w = [-0.07659336 0.88800592 2.18858744] w\_new= [-0.07659366 0.88800585 2.18858781]

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gradient= [-2.99446384e-05 -7.26159618e-06 3.72062346e-05] w = [-0.07659396 0.88800577 2.18858819] w\_new= [-0.07659426 0.8880057 2.18858856]

gradient= [-2.99027443e-05 -7.25214895e-06 3.71548933e-05] w = [-0.07659426 0.8880057 2.18858856] w\_new= [-0.07659456 0.88800563 2.18858893]

gradient= [-2.98609089e-05 -7.24271388e-06 3.71036228e-05] w = [-0.07659456 0.88800563 2.18858893] w\_new= [-0.07659485 0.88800556 2.1885893 ]

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gradient= [-2.97774138e-05 -7.22388013e-06 3.70012940e-05] w = [-0.07659515 0.88800548 2.18858967] w\_new= [-0.07659545 0.88800541 2.18859004]

gradient= [-2.97357540e-05 -7.21448143e-06 3.69502354e-05] w = [-0.07659545 0.88800541 2.18859004] w\_new= [-0.07659575 0.88800534 2.18859041]

gradient= [-2.96941525e-05 -7.20509483e-06 3.68992473e-05] w = [-0.07659575 0.88800534 2.18859041] w\_new= [-0.07659605 0.88800527 2.18859078]

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gradient= [-2.95696973e-05 -7.17700741e-06 3.67467047e-05] w = [-0.07659664 0.88800512 2.18859152] w\_new= [-0.07659693 0.88800505 2.18859188]

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gradient= [-2.94870174e-05 -7.15834266e-06 3.66453600e-05] w = [-0.07659723 0.88800498 2.18859225] w\_new= [-0.07659752 0.88800491 2.18859262]

gradient= [-2.94457643e-05 -7.14902829e-06 3.65947926e-05] w = [-0.07659752 0.88800491 2.18859262] w\_new= [-0.07659782 0.88800484 2.18859298]

gradient= [-2.94045689e-05 -7.13972591e-06 3.65442948e-05] w = [-0.07659782 0.88800484 2.18859298] w\_new= [-0.07659811 0.88800476 2.18859335]

gradient= [-2.93634313e-05 -7.13043551e-06 3.64938668e-05] w = [-0.07659811 0.88800476 2.18859335] w\_new= [-0.07659841 0.88800469 2.18859371]

gradient= [-2.93223513e-05 -7.12115706e-06 3.64435083e-05] w = [-0.07659841 0.88800469 2.18859371] w\_new= [-0.0765987 0.88800462 2.18859408]

gradient= [-2.92813288e-05 -7.11189055e-06 3.63932193e-05] w = [-0.0765987 0.88800462 2.18859408] w\_new= [-0.07659899 0.88800455 2.18859444]

gradient= [-2.92403638e-05 -7.10263596e-06 3.63429997e-05] w = [-0.07659899 0.88800455 2.18859444] w\_new= [-0.07659928 0.88800448 2.1885948 ]

gradient= [-2.91994561e-05 -7.09339329e-06 3.62928494e-05] w = [-0.07659928 0.88800448 2.1885948 ] w\_new= [-0.07659958 0.88800441 2.18859517]

gradient= [-2.91586058e-05 -7.08416251e-06 3.62427683e-05] w = [-0.07659958 0.88800441 2.18859517] w\_new= [-0.07659987 0.88800434 2.18859553]

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gradient= [-2.90770767e-05 -7.06573658e-06 3.61428132e-05] w = [-0.07660016 0.88800427 2.18859589] w\_new= [-0.07660045 0.8880042 2.18859625]

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gradient= [-2.89957757e-05 -7.04735806e-06 3.60431338e-05] w = [-0.07660074 0.88800413 2.18859661] w\_new= [-0.07660103 0.88800406 2.18859697]

gradient= [-2.89552107e-05 -7.03818653e-06 3.59933972e-05] w = [-0.07660103 0.88800406 2.18859697] w\_new= [-0.07660132 0.88800399 2.18859733]

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gradient= [-2.88338560e-05 -7.01074273e-06 3.58445988e-05] w = [-0.0766019 0.88800384 2.18859805] w\_new= [-0.07660219 0.88800377 2.18859841]

gradient= [-2.87935177e-05 -7.00161834e-06 3.57951361e-05] w = [-0.07660219 0.88800377 2.18859841] w\_new= [-0.07660247 0.8880037 2.18859877]

gradient= [-2.87532359e-05 -6.99250569e-06 3.57457416e-05] w = [-0.07660247 0.8880037 2.18859877] w\_new= [-0.07660276 0.88800363 2.18859913]

gradient= [-2.87130106e-05 -6.98340477e-06 3.56964153e-05] w = [-0.07660276 0.88800363 2.18859913] w\_new= [-0.07660305 0.88800357 2.18859948]

gradient= [-2.86728415e-05 -6.97431557e-06 3.56471571e-05] w = [-0.07660305 0.88800357 2.18859948] w\_new= [-0.07660334 0.8880035 2.18859984]

gradient= [-2.86327288e-05 -6.96523807e-06 3.55979668e-05] w = [-0.07660334 0.8880035 2.18859984] w\_new= [-0.07660362 0.88800343 2.1886002 ]

gradient= [-2.85926722e-05 -6.95617226e-06 3.55488444e-05] w = [-0.07660362 0.88800343 2.1886002 ] w\_new= [-0.07660391 0.88800336 2.18860055]

gradient= [-2.85526717e-05 -6.94711811e-06 3.54997898e-05] w = [-0.07660391 0.88800336 2.18860055] w\_new= [-0.07660419 0.88800329 2.18860091]

gradient= [-2.85127272e-05 -6.93807563e-06 3.54508028e-05] w = [-0.07660419 0.88800329 2.18860091] w\_new= [-0.07660448 0.88800322 2.18860126]

gradient= [-2.84728387e-05 -6.92904478e-06 3.54018835e-05] w = [-0.07660448 0.88800322 2.18860126] w\_new= [-0.07660476 0.88800315 2.18860161]

gradient= [-2.84330060e-05 -6.92002557e-06 3.53530316e-05] w = [-0.07660476 0.88800315 2.18860161] w\_new= [-0.07660505 0.88800308 2.18860197]

gradient= [-2.83932291e-05 -6.91101796e-06 3.53042471e-05] w = [-0.07660505 0.88800308 2.18860197] w\_new= [-0.07660533 0.88800301 2.18860232]

gradient= [-2.83535080e-05 -6.90202195e-06 3.52555299e-05] w = [-0.07660533 0.88800301 2.18860232] w\_new= [-0.07660561 0.88800294 2.18860267]

gradient= [-2.83138425e-05 -6.89303753e-06 3.52068800e-05] w = [-0.07660561 0.88800294 2.18860267] w\_new= [-0.0766059 0.88800287 2.18860303]

gradient= [-2.82742325e-05 -6.88406467e-06 3.51582972e-05] w = [-0.0766059 0.88800287 2.18860303] w\_new= [-0.07660618 0.8880028 2.18860338]

gradient= [-2.82346780e-05 -6.87510336e-06 3.51097813e-05] w = [-0.07660618 0.8880028 2.18860338] w\_new= [-0.07660646 0.88800273 2.18860373]

gradient= [-2.81951789e-05 -6.86615360e-06 3.50613325e-05] w = [-0.07660646 0.88800273 2.18860373] w\_new= [-0.07660674 0.88800267 2.18860408]

gradient= [-2.81557351e-05 -6.85721535e-06 3.50129505e-05] w = [-0.07660674 0.88800267 2.18860408] w\_new= [-0.07660703 0.8880026 2.18860443]

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gradient= [-2.80770132e-05 -6.83937338e-06 3.49163866e-05] w = [-0.07660731 0.88800253 2.18860478] w\_new= [-0.07660759 0.88800246 2.18860513]

gradient= [-2.80377349e-05 -6.83046962e-06 3.48682045e-05] w = [-0.07660759 0.88800246 2.18860513] w\_new= [-0.07660787 0.88800239 2.18860548]

gradient= [-2.79985116e-05 -6.82157733e-06 3.48200890e-05] w = [-0.07660787 0.88800239 2.18860548] w\_new= [-0.07660815 0.88800232 2.18860583]

gradient= [-2.79593433e-05 -6.81269649e-06 3.47720398e-05] w = [-0.07660815 0.88800232 2.18860583] w\_new= [-0.07660843 0.88800226 2.18860617]

gradient= [-2.79202298e-05 -6.80382708e-06 3.47240569e-05] w = [-0.07660843 0.88800226 2.18860617] w\_new= [-0.07660871 0.88800219 2.18860652]

gradient= [-2.78811711e-05 -6.79496910e-06 3.46761402e-05] w = [-0.07660871 0.88800219 2.18860652] w\_new= [-0.07660899 0.88800212 2.18860687]

gradient= [-2.78421671e-05 -6.78612252e-06 3.46282896e-05] w = [-0.07660899 0.88800212 2.18860687] w\_new= [-0.07660926 0.88800205 2.18860721]

gradient= [-2.78032177e-05 -6.77728734e-06 3.45805051e-05] w = [-0.07660926 0.88800205 2.18860721] w\_new= [-0.07660954 0.88800198 2.18860756]

gradient= [-2.77643229e-05 -6.76846353e-06 3.45327864e-05] w = [-0.07660954 0.88800198 2.18860756] w\_new= [-0.07660982 0.88800192 2.1886079 ]

gradient= [-2.77254825e-05 -6.75965109e-06 3.44851336e-05] w = [-0.07660982 0.88800192 2.1886079 ] w\_new= [-0.0766101 0.88800185 2.18860825]

gradient= [-2.76866966e-05 -6.75085000e-06 3.44375466e-05] w = [-0.0766101 0.88800185 2.18860825] w\_new= [-0.07661037 0.88800178 2.18860859]

gradient= [-2.76479649e-05 -6.74206024e-06 3.43900252e-05] w = [-0.07661037 0.88800178 2.18860859] w\_new= [-0.07661065 0.88800171 2.18860894]

gradient= [-2.76092875e-05 -6.73328181e-06 3.43425694e-05] w = [-0.07661065 0.88800171 2.18860894] w\_new= [-0.07661093 0.88800165 2.18860928]

gradient= [-2.75706643e-05 -6.72451468e-06 3.42951790e-05] w = [-0.07661093 0.88800165 2.18860928] w\_new= [-0.0766112 0.88800158 2.18860962]

gradient= [-2.75320952e-05 -6.71575884e-06 3.42478540e-05] w = [-0.0766112 0.88800158 2.18860962] w\_new= [-0.07661148 0.88800151 2.18860997]

gradient= [-2.74935801e-05 -6.70701428e-06 3.42005943e-05] w = [-0.07661148 0.88800151 2.18860997] w\_new= [-0.07661175 0.88800144 2.18861031]

gradient= [-2.74551189e-05 -6.69828098e-06 3.41533999e-05] w = [-0.07661175 0.88800144 2.18861031] w\_new= [-0.07661203 0.88800138 2.18861065]

gradient= [-2.74167116e-05 -6.68955893e-06 3.41062705e-05] w = [-0.07661203 0.88800138 2.18861065] w\_new= [-0.0766123 0.88800131 2.18861099]

gradient= [-2.73783581e-05 -6.68084812e-06 3.40592062e-05] w = [-0.0766123 0.88800131 2.18861099] w\_new= [-0.07661258 0.88800124 2.18861133]

gradient= [-2.73400582e-05 -6.67214852e-06 3.40122068e-05] w = [-0.07661258 0.88800124 2.18861133] w\_new= [-0.07661285 0.88800118 2.18861167]

gradient= [-2.73018121e-05 -6.66346014e-06 3.39652722e-05] w = [-0.07661285 0.88800118 2.18861167] w\_new= [-0.07661312 0.88800111 2.18861201]

gradient= [-2.72636195e-05 -6.65478294e-06 3.39184024e-05] w = [-0.07661312 0.88800111 2.18861201] w\_new= [-0.07661339 0.88800104 2.18861235]

gradient= [-2.72254803e-05 -6.64611692e-06 3.38715973e-05] w = [-0.07661339 0.88800104 2.18861235] w\_new= [-0.07661367 0.88800098 2.18861269]

gradient= [-2.71873946e-05 -6.63746207e-06 3.38248567e-05] w = [-0.07661367 0.88800098 2.18861269] w\_new= [-0.07661394 0.88800091 2.18861303]

gradient= [-2.71493623e-05 -6.62881836e-06 3.37781806e-05] w = [-0.07661394 0.88800091 2.18861303] w\_new= [-0.07661421 0.88800085 2.18861337]

gradient= [-2.71113832e-05 -6.62018579e-06 3.37315690e-05] w = [-0.07661421 0.88800085 2.18861337] w\_new= [-0.07661448 0.88800078 2.1886137 ]

gradient= [-2.70734573e-05 -6.61156434e-06 3.36850216e-05] w = [-0.07661448 0.88800078 2.1886137 ] w\_new= [-0.07661475 0.88800071 2.18861404]

gradient= [-2.70355844e-05 -6.60295400e-06 3.36385384e-05] w = [-0.07661475 0.88800071 2.18861404] w\_new= [-0.07661502 0.88800065 2.18861438]

gradient= [-2.69977647e-05 -6.59435475e-06 3.35921194e-05] w = [-0.07661502 0.88800065 2.18861438] w\_new= [-0.07661529 0.88800058 2.18861471]

gradient= [-2.69599979e-05 -6.58576658e-06 3.35457645e-05] w = [-0.07661529 0.88800058 2.18861471] w\_new= [-0.07661556 0.88800051 2.18861505]

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gradient= [-2.68470145e-05 -6.56006839e-06 3.34070829e-05] w = [-0.0766161 0.88800038 2.18861572] w\_new= [-0.07661637 0.88800032 2.18861605]

gradient= [-2.68094589e-05 -6.55152439e-06 3.33609833e-05] w = [-0.07661637 0.88800032 2.18861605] w\_new= [-0.07661664 0.88800025 2.18861638]

gradient= [-2.67719558e-05 -6.54299140e-06 3.33149472e-05] w = [-0.07661664 0.88800025 2.18861638] w\_new= [-0.0766169 0.88800019 2.18861672]

gradient= [-2.67345052e-05 -6.53446941e-06 3.32689746e-05] w = [-0.0766169 0.88800019 2.18861672] w\_new= [-0.07661717 0.88800012 2.18861705]

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gradient= [-2.66597614e-05 -6.51745835e-06 3.31772197e-05] w = [-0.07661744 0.88800006 2.18861738] w\_new= [-0.07661771 0.88799999 2.18861771]

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gradient= [-2.61789995e-05 -6.40794934e-06 3.25869488e-05] w = [-0.07662088 0.88799922 2.18862166] w\_new= [-0.07662114 0.88799915 2.18862199]

gradient= [-2.61423793e-05 -6.39960137e-06 3.25419807e-05] w = [-0.07662114 0.88799915 2.18862199] w\_new= [-0.0766214 0.88799909 2.18862231]

gradient= [-2.61058104e-05 -6.39126415e-06 3.24970746e-05] w = [-0.0766214 0.88799909 2.18862231] w\_new= [-0.07662166 0.88799902 2.18862264]

gradient= [-2.60692928e-05 -6.38293768e-06 3.24522304e-05] w = [-0.07662166 0.88799902 2.18862264] w\_new= [-0.07662192 0.88799896 2.18862296]

gradient= [-2.60328262e-05 -6.37462194e-06 3.24074482e-05] w = [-0.07662192 0.88799896 2.18862296] w\_new= [-0.07662218 0.8879989 2.18862328]

gradient= [-2.59964108e-05 -6.36631693e-06 3.23627277e-05] w = [-0.07662218 0.8879989 2.18862328] w\_new= [-0.07662244 0.88799883 2.18862361]

gradient= [-2.59600463e-05 -6.35802261e-06 3.23180689e-05] w = [-0.07662244 0.88799883 2.18862361] w\_new= [-0.0766227 0.88799877 2.18862393]

gradient= [-2.59237327e-05 -6.34973899e-06 3.22734717e-05] w = [-0.0766227 0.88799877 2.18862393] w\_new= [-0.07662296 0.88799871 2.18862425]

gradient= [-2.58874700e-05 -6.34146604e-06 3.22289361e-05] w = [-0.07662296 0.88799871 2.18862425] w\_new= [-0.07662322 0.88799864 2.18862458]

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gradient= [-2.54919164e-05 -6.25116445e-06 3.17430808e-05] w = [-0.07662579 0.88799801 2.18862778] w\_new= [-0.07662604 0.88799795 2.18862809]

gradient= [-2.54562584e-05 -6.24301858e-06 3.16992770e-05] w = [-0.07662604 0.88799795 2.18862809] w\_new= [-0.0766263 0.88799789 2.18862841]

gradient= [-2.54206503e-05 -6.23488321e-06 3.16555335e-05] w = [-0.0766263 0.88799789 2.18862841] w\_new= [-0.07662655 0.88799782 2.18862873]

gradient= [-2.53850921e-05 -6.22675833e-06 3.16118505e-05] w = [-0.07662655 0.88799782 2.18862873] w\_new= [-0.0766268 0.88799776 2.18862904]

gradient= [-2.53495837e-05 -6.21864392e-06 3.15682277e-05] w = [-0.0766268 0.88799776 2.18862904] w\_new= [-0.07662706 0.8879977 2.18862936]

gradient= [-2.53141251e-05 -6.21053998e-06 3.15246650e-05] w = [-0.07662706 0.8879977 2.18862936] w\_new= [-0.07662731 0.88799764 2.18862967]

gradient= [-2.52787161e-05 -6.20244648e-06 3.14811625e-05] w = [-0.07662731 0.88799764 2.18862967] w\_new= [-0.07662756 0.88799758 2.18862999]

gradient= [-2.52433566e-05 -6.19436342e-06 3.14377200e-05] w = [-0.07662756 0.88799758 2.18862999] w\_new= [-0.07662782 0.88799751 2.1886303 ]

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gradient= [-2.49622579e-05 -6.13007302e-06 3.10923309e-05] w = [-0.07662957 0.88799708 2.18863249] w\_new= [-0.07662982 0.88799702 2.1886328 ]

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gradient= [-2.48228858e-05 -6.09817584e-06 3.09210617e-05] w = [-0.07663057 0.88799684 2.18863373] w\_new= [-0.07663082 0.88799678 2.18863404]

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gradient= [-2.47534922e-05 -6.08228889e-06 3.08357811e-05] w = [-0.07663107 0.88799672 2.18863435] w\_new= [-0.07663131 0.88799666 2.18863466]

gradient= [-2.47188682e-05 -6.07436078e-06 3.07932290e-05] w = [-0.07663131 0.88799666 2.18863466] w\_new= [-0.07663156 0.88799659 2.18863497]

gradient= [-2.46842928e-05 -6.06644289e-06 3.07507357e-05] w = [-0.07663156 0.88799659 2.18863497] w\_new= [-0.07663181 0.88799653 2.18863527]

gradient= [-2.46497657e-05 -6.05853522e-06 3.07083009e-05] w = [-0.07663181 0.88799653 2.18863527] w\_new= [-0.07663205 0.88799647 2.18863558]

gradient= [-2.46152870e-05 -6.05063774e-06 3.06659248e-05] w = [-0.07663205 0.88799647 2.18863558] w\_new= [-0.0766323 0.88799641 2.18863589]

gradient= [-2.45808566e-05 -6.04275045e-06 3.06236070e-05] w = [-0.0766323 0.88799641 2.18863589] w\_new= [-0.07663255 0.88799635 2.18863619]

gradient= [-2.45464744e-05 -6.03487334e-06 3.05813477e-05] w = [-0.07663255 0.88799635 2.18863619] w\_new= [-0.07663279 0.88799629 2.1886365 ]

gradient= [-2.45121403e-05 -6.02700638e-06 3.05391467e-05] w = [-0.07663279 0.88799629 2.1886365 ] w\_new= [-0.07663304 0.88799623 2.18863681]

gradient= [-2.44778543e-05 -6.01914957e-06 3.04970039e-05] w = [-0.07663304 0.88799623 2.18863681] w\_new= [-0.07663328 0.88799617 2.18863711]

gradient= [-2.44436164e-05 -6.01130289e-06 3.04549192e-05] w = [-0.07663328 0.88799617 2.18863711] w\_new= [-0.07663353 0.88799611 2.18863741]

gradient= [-2.44094263e-05 -6.00346634e-06 3.04128927e-05] w = [-0.07663353 0.88799611 2.18863741] w\_new= [-0.07663377 0.88799605 2.18863772]

gradient= [-2.43752842e-05 -5.99563990e-06 3.03709241e-05] w = [-0.07663377 0.88799605 2.18863772] w\_new= [-0.07663401 0.88799599 2.18863802]

gradient= [-2.43411898e-05 -5.98782355e-06 3.03290134e-05] w = [-0.07663401 0.88799599 2.18863802] w\_new= [-0.07663426 0.88799593 2.18863833]

gradient= [-2.43071432e-05 -5.98001728e-06 3.02871605e-05] w = [-0.07663426 0.88799593 2.18863833] w\_new= [-0.0766345 0.88799587 2.18863863]

gradient= [-2.42731443e-05 -5.97222108e-06 3.02453654e-05] w = [-0.0766345 0.88799587 2.18863863] w\_new= [-0.07663474 0.88799581 2.18863893]

gradient= [-2.42391929e-05 -5.96443494e-06 3.02036279e-05] w = [-0.07663474 0.88799581 2.18863893] w\_new= [-0.07663499 0.88799575 2.18863923]

gradient= [-2.42052892e-05 -5.95665885e-06 3.01619480e-05] w = [-0.07663499 0.88799575 2.18863923] w\_new= [-0.07663523 0.88799569 2.18863953]

gradient= [-2.41714328e-05 -5.94889278e-06 3.01203256e-05] w = [-0.07663523 0.88799569 2.18863953] w\_new= [-0.07663547 0.88799563 2.18863984]

gradient= [-2.41376239e-05 -5.94113674e-06 3.00787607e-05] w = [-0.07663547 0.88799563 2.18863984] w\_new= [-0.07663571 0.88799557 2.18864014]

gradient= [-2.41038624e-05 -5.93339070e-06 3.00372531e-05] w = [-0.07663571 0.88799557 2.18864014] w\_new= [-0.07663595 0.88799551 2.18864044]

gradient= [-2.40701481e-05 -5.92565466e-06 2.99958028e-05] w = [-0.07663595 0.88799551 2.18864044] w\_new= [-0.07663619 0.88799546 2.18864074]

gradient= [-2.40364810e-05 -5.91792859e-06 2.99544096e-05] w = [-0.07663619 0.88799546 2.18864074] w\_new= [-0.07663643 0.8879954 2.18864104]

gradient= [-2.40028611e-05 -5.91021249e-06 2.99130736e-05] w = [-0.07663643 0.8879954 2.18864104] w\_new= [-0.07663667 0.88799534 2.18864134]

gradient= [-2.39692882e-05 -5.90250635e-06 2.98717946e-05] w = [-0.07663667 0.88799534 2.18864134] w\_new= [-0.07663691 0.88799528 2.18864163]

gradient= [-2.39357624e-05 -5.89481015e-06 2.98305725e-05] w = [-0.07663691 0.88799528 2.18864163] w\_new= [-0.07663715 0.88799522 2.18864193]

gradient= [-2.39022835e-05 -5.88712388e-06 2.97894074e-05] w = [-0.07663715 0.88799522 2.18864193] w\_new= [-0.07663739 0.88799516 2.18864223]

gradient= [-2.38688515e-05 -5.87944753e-06 2.97482990e-05] w = [-0.07663739 0.88799516 2.18864223] w\_new= [-0.07663763 0.8879951 2.18864253]

gradient= [-2.38354662e-05 -5.87178108e-06 2.97072473e-05] w = [-0.07663763 0.8879951 2.18864253] w\_new= [-0.07663787 0.88799504 2.18864283]

gradient= [-2.38021278e-05 -5.86412453e-06 2.96662523e-05] w = [-0.07663787 0.88799504 2.18864283] w\_new= [-0.07663811 0.88799498 2.18864312]

gradient= [-2.37688360e-05 -5.85647785e-06 2.96253138e-05] w = [-0.07663811 0.88799498 2.18864312] w\_new= [-0.07663834 0.88799493 2.18864342]

gradient= [-2.37355908e-05 -5.84884104e-06 2.95844319e-05] w = [-0.07663834 0.88799493 2.18864342] w\_new= [-0.07663858 0.88799487 2.18864371]

gradient= [-2.37023922e-05 -5.84121409e-06 2.95436063e-05] w = [-0.07663858 0.88799487 2.18864371] w\_new= [-0.07663882 0.88799481 2.18864401]

gradient= [-2.36692401e-05 -5.83359697e-06 2.95028370e-05] w = [-0.07663882 0.88799481 2.18864401] w\_new= [-0.07663905 0.88799475 2.1886443 ]

gradient= [-2.36361344e-05 -5.82598969e-06 2.94621241e-05] w = [-0.07663905 0.88799475 2.1886443 ] w\_new= [-0.07663929 0.88799469 2.1886446 ]

gradient= [-2.36030750e-05 -5.81839222e-06 2.94214672e-05] w = [-0.07663929 0.88799469 2.1886446 ] w\_new= [-0.07663953 0.88799463 2.18864489]

gradient= [-2.35700619e-05 -5.81080456e-06 2.93808665e-05] w = [-0.07663953 0.88799463 2.18864489] w\_new= [-0.07663976 0.88799458 2.18864519]

gradient= [-2.35370951e-05 -5.80322668e-06 2.93403218e-05] w = [-0.07663976 0.88799458 2.18864519] w\_new= [-0.07664 0.88799452 2.18864548]

gradient= [-2.35041744e-05 -5.79565859e-06 2.92998330e-05] w = [-0.07664 0.88799452 2.18864548] w\_new= [-0.07664023 0.88799446 2.18864577]

gradient= [-2.34712998e-05 -5.78810026e-06 2.92594001e-05] w = [-0.07664023 0.88799446 2.18864577] w\_new= [-0.07664047 0.8879944 2.18864607]

gradient= [-2.34384713e-05 -5.78055169e-06 2.92190230e-05] w = [-0.07664047 0.8879944 2.18864607] w\_new= [-0.0766407 0.88799434 2.18864636]

gradient= [-2.34056887e-05 -5.77301286e-06 2.91787016e-05] w = [-0.0766407 0.88799434 2.18864636] w\_new= [-0.07664094 0.88799429 2.18864665]

gradient= [-2.33729520e-05 -5.76548376e-06 2.91384358e-05] w = [-0.07664094 0.88799429 2.18864665] w\_new= [-0.07664117 0.88799423 2.18864694]

gradient= [-2.33402612e-05 -5.75796438e-06 2.90982256e-05] w = [-0.07664117 0.88799423 2.18864694] w\_new= [-0.0766414 0.88799417 2.18864723]

gradient= [-2.33076161e-05 -5.75045470e-06 2.90580708e-05] w = [-0.0766414 0.88799417 2.18864723] w\_new= [-0.07664164 0.88799411 2.18864752]

gradient= [-2.32750168e-05 -5.74295471e-06 2.90179715e-05] w = [-0.07664164 0.88799411 2.18864752] w\_new= [-0.07664187 0.88799406 2.18864781]

gradient= [-2.32424630e-05 -5.73546441e-06 2.89779275e-05] w = [-0.07664187 0.88799406 2.18864781] w\_new= [-0.0766421 0.887994 2.1886481]

gradient= [-2.32099549e-05 -5.72798377e-06 2.89379387e-05] w = [-0.0766421 0.887994 2.1886481] w\_new= [-0.07664233 0.88799394 2.18864839]

gradient= [-2.31774923e-05 -5.72051278e-06 2.88980051e-05] w = [-0.07664233 0.88799394 2.18864839] w\_new= [-0.07664257 0.88799388 2.18864868]

gradient= [-2.31450751e-05 -5.71305144e-06 2.88581266e-05] w = [-0.07664257 0.88799388 2.18864868] w\_new= [-0.0766428 0.88799383 2.18864897]

gradient= [-2.31127034e-05 -5.70559973e-06 2.88183031e-05] w = [-0.0766428 0.88799383 2.18864897] w\_new= [-0.07664303 0.88799377 2.18864926]

gradient= [-2.30803769e-05 -5.69815764e-06 2.87785346e-05] w = [-0.07664303 0.88799377 2.18864926] w\_new= [-0.07664326 0.88799371 2.18864955]

gradient= [-2.30480957e-05 -5.69072516e-06 2.87388209e-05] w = [-0.07664326 0.88799371 2.18864955] w\_new= [-0.07664349 0.88799366 2.18864983]

gradient= [-2.30158598e-05 -5.68330227e-06 2.86991620e-05] w = [-0.07664349 0.88799366 2.18864983] w\_new= [-0.07664372 0.8879936 2.18865012]

gradient= [-2.29836689e-05 -5.67588896e-06 2.86595579e-05] w = [-0.07664372 0.8879936 2.18865012] w\_new= [-0.07664395 0.88799354 2.18865041]

gradient= [-2.29515231e-05 -5.66848522e-06 2.86200084e-05] w = [-0.07664395 0.88799354 2.18865041] w\_new= [-0.07664418 0.88799349 2.18865069]

gradient= [-2.29194224e-05 -5.66109103e-06 2.85805134e-05] w = [-0.07664418 0.88799349 2.18865069] w\_new= [-0.07664441 0.88799343 2.18865098]

gradient= [-2.28873666e-05 -5.65370640e-06 2.85410729e-05] w = [-0.07664441 0.88799343 2.18865098] w\_new= [-0.07664464 0.88799337 2.18865126]

gradient= [-2.28553556e-05 -5.64633129e-06 2.85016869e-05] w = [-0.07664464 0.88799337 2.18865126] w\_new= [-0.07664487 0.88799332 2.18865155]

gradient= [-2.28233895e-05 -5.63896571e-06 2.84623552e-05] w = [-0.07664487 0.88799332 2.18865155] w\_new= [-0.07664509 0.88799326 2.18865183]

gradient= [-2.27914681e-05 -5.63160963e-06 2.84230778e-05] w = [-0.07664509 0.88799326 2.18865183] w\_new= [-0.07664532 0.8879932 2.18865212]

gradient= [-2.27595915e-05 -5.62426306e-06 2.83838545e-05] w = [-0.07664532 0.8879932 2.18865212] w\_new= [-0.07664555 0.88799315 2.1886524 ]

gradient= [-2.27277595e-05 -5.61692596e-06 2.83446854e-05] w = [-0.07664555 0.88799315 2.1886524 ] w\_new= [-0.07664578 0.88799309 2.18865269]

gradient= [-2.26959720e-05 -5.60959834e-06 2.83055703e-05] w = [-0.07664578 0.88799309 2.18865269] w\_new= [-0.076646 0.88799304 2.18865297]

gradient= [-2.26642290e-05 -5.60228018e-06 2.82665092e-05] w = [-0.076646 0.88799304 2.18865297] w\_new= [-0.07664623 0.88799298 2.18865325]

gradient= [-2.26325305e-05 -5.59497147e-06 2.82275020e-05] w = [-0.07664623 0.88799298 2.18865325] w\_new= [-0.07664646 0.88799292 2.18865353]

gradient= [-2.26008764e-05 -5.58767219e-06 2.81885486e-05] w = [-0.07664646 0.88799292 2.18865353] w\_new= [-0.07664668 0.88799287 2.18865382]

gradient= [-2.25692666e-05 -5.58038234e-06 2.81496490e-05] w = [-0.07664668 0.88799287 2.18865382] w\_new= [-0.07664691 0.88799281 2.1886541 ]

gradient= [-2.25377011e-05 -5.57310190e-06 2.81108030e-05] w = [-0.07664691 0.88799281 2.1886541 ] w\_new= [-0.07664713 0.88799276 2.18865438]

gradient= [-2.25061797e-05 -5.56583086e-06 2.80720106e-05] w = [-0.07664713 0.88799276 2.18865438] w\_new= [-0.07664736 0.8879927 2.18865466]

gradient= [-2.24747025e-05 -5.55856921e-06 2.80332717e-05] w = [-0.07664736 0.8879927 2.18865466] w\_new= [-0.07664758 0.88799264 2.18865494]

gradient= [-2.24432694e-05 -5.55131693e-06 2.79945863e-05] w = [-0.07664758 0.88799264 2.18865494] w\_new= [-0.07664781 0.88799259 2.18865522]

gradient= [-2.24118802e-05 -5.54407402e-06 2.79559543e-05] w = [-0.07664781 0.88799259 2.18865522] w\_new= [-0.07664803 0.88799253 2.1886555 ]

gradient= [-2.23805350e-05 -5.53684047e-06 2.79173755e-05] w = [-0.07664803 0.88799253 2.1886555 ] w\_new= [-0.07664826 0.88799248 2.18865578]

gradient= [-2.23492337e-05 -5.52961625e-06 2.78788500e-05] w = [-0.07664826 0.88799248 2.18865578] w\_new= [-0.07664848 0.88799242 2.18865606]

gradient= [-2.23179763e-05 -5.52240136e-06 2.78403776e-05] w = [-0.07664848 0.88799242 2.18865606] w\_new= [-0.0766487 0.88799237 2.18865633]

gradient= [-2.22867626e-05 -5.51519579e-06 2.78019584e-05] w = [-0.0766487 0.88799237 2.18865633] w\_new= [-0.07664893 0.88799231 2.18865661]

gradient= [-2.22555926e-05 -5.50799952e-06 2.77635921e-05] w = [-0.07664893 0.88799231 2.18865661] w\_new= [-0.07664915 0.88799226 2.18865689]

gradient= [-2.22244662e-05 -5.50081254e-06 2.77252787e-05] w = [-0.07664915 0.88799226 2.18865689] w\_new= [-0.07664937 0.8879922 2.18865717]

gradient= [-2.21933834e-05 -5.49363485e-06 2.76870183e-05] w = [-0.07664937 0.8879922 2.18865717] w\_new= [-0.07664959 0.88799215 2.18865744]

gradient= [-2.21623442e-05 -5.48646643e-06 2.76488106e-05] w = [-0.07664959 0.88799215 2.18865744] w\_new= [-0.07664981 0.88799209 2.18865772]

gradient= [-2.21313484e-05 -5.47930726e-06 2.76106556e-05] w = [-0.07664981 0.88799209 2.18865772] w\_new= [-0.07665004 0.88799204 2.188658 ]

gradient= [-2.21003960e-05 -5.47215734e-06 2.75725533e-05] w = [-0.07665004 0.88799204 2.188658 ] w\_new= [-0.07665026 0.88799198 2.18865827]

gradient= [-2.20694869e-05 -5.46501665e-06 2.75345035e-05] w = [-0.07665026 0.88799198 2.18865827] w\_new= [-0.07665048 0.88799193 2.18865855]

gradient= [-2.20386211e-05 -5.45788519e-06 2.74965063e-05] w = [-0.07665048 0.88799193 2.18865855] w\_new= [-0.0766507 0.88799187 2.18865882]

gradient= [-2.20077985e-05 -5.45076293e-06 2.74585614e-05] w = [-0.0766507 0.88799187 2.18865882] w\_new= [-0.07665092 0.88799182 2.1886591 ]

gradient= [-2.19770191e-05 -5.44364988e-06 2.74206690e-05] w = [-0.07665092 0.88799182 2.1886591 ] w\_new= [-0.07665114 0.88799177 2.18865937]

gradient= [-2.19462828e-05 -5.43654601e-06 2.73828288e-05] w = [-0.07665114 0.88799177 2.18865937] w\_new= [-0.07665136 0.88799171 2.18865965]

gradient= [-2.19155895e-05 -5.42945131e-06 2.73450408e-05] w = [-0.07665136 0.88799171 2.18865965] w\_new= [-0.07665158 0.88799166 2.18865992]

gradient= [-2.18849391e-05 -5.42236578e-06 2.73073049e-05] w = [-0.07665158 0.88799166 2.18865992] w\_new= [-0.07665179 0.8879916 2.18866019]

gradient= [-2.18543317e-05 -5.41528941e-06 2.72696211e-05] w = [-0.07665179 0.8879916 2.18866019] w\_new= [-0.07665201 0.88799155 2.18866047]

gradient= [-2.18237672e-05 -5.40822217e-06 2.72319893e-05] w = [-0.07665201 0.88799155 2.18866047] w\_new= [-0.07665223 0.88799149 2.18866074]

gradient= [-2.17932454e-05 -5.40116406e-06 2.71944095e-05] w = [-0.07665223 0.88799149 2.18866074] w\_new= [-0.07665245 0.88799144 2.18866101]

gradient= [-2.17627664e-05 -5.39411506e-06 2.71568814e-05] w = [-0.07665245 0.88799144 2.18866101] w\_new= [-0.07665267 0.88799139 2.18866128]

gradient= [-2.17323300e-05 -5.38707518e-06 2.71194052e-05] w = [-0.07665267 0.88799139 2.18866128] w\_new= [-0.07665288 0.88799133 2.18866155]

gradient= [-2.17019363e-05 -5.38004438e-06 2.70819807e-05] w = [-0.07665288 0.88799133 2.18866155] w\_new= [-0.0766531 0.88799128 2.18866182]

gradient= [-2.16715851e-05 -5.37302267e-06 2.70446078e-05] w = [-0.0766531 0.88799128 2.18866182] w\_new= [-0.07665332 0.88799122 2.18866209]

gradient= [-2.16412764e-05 -5.36601003e-06 2.70072864e-05] w = [-0.07665332 0.88799122 2.18866209] w\_new= [-0.07665353 0.88799117 2.18866236]

gradient= [-2.16110101e-05 -5.35900644e-06 2.69700166e-05] w = [-0.07665353 0.88799117 2.18866236] w\_new= [-0.07665375 0.88799112 2.18866263]

gradient= [-2.15807862e-05 -5.35201191e-06 2.69327981e-05] w = [-0.07665375 0.88799112 2.18866263] w\_new= [-0.07665397 0.88799106 2.1886629 ]

gradient= [-2.15506047e-05 -5.34502641e-06 2.68956311e-05] w = [-0.07665397 0.88799106 2.1886629 ] w\_new= [-0.07665418 0.88799101 2.18866317]

gradient= [-2.15204653e-05 -5.33804993e-06 2.68585153e-05] w = [-0.07665418 0.88799101 2.18866317] w\_new= [-0.0766544 0.88799096 2.18866344]

gradient= [-2.14903682e-05 -5.33108247e-06 2.68214507e-05] w = [-0.0766544 0.88799096 2.18866344] w\_new= [-0.07665461 0.8879909 2.18866371]

gradient= [-2.14603132e-05 -5.32412401e-06 2.67844372e-05] w = [-0.07665461 0.8879909 2.18866371] w\_new= [-0.07665483 0.88799085 2.18866398]

gradient= [-2.14303003e-05 -5.31717453e-06 2.67474749e-05] w = [-0.07665483 0.88799085 2.18866398] w\_new= [-0.07665504 0.8879908 2.18866424]

gradient= [-2.14003295e-05 -5.31023404e-06 2.67105635e-05] w = [-0.07665504 0.8879908 2.18866424] w\_new= [-0.07665525 0.88799074 2.18866451]

gradient= [-2.13704005e-05 -5.30330251e-06 2.66737030e-05] w = [-0.07665525 0.88799074 2.18866451] w\_new= [-0.07665547 0.88799069 2.18866478]

gradient= [-2.13405135e-05 -5.29637994e-06 2.66368934e-05] w = [-0.07665547 0.88799069 2.18866478] w\_new= [-0.07665568 0.88799064 2.18866504]

gradient= [-2.13106683e-05 -5.28946632e-06 2.66001346e-05] w = [-0.07665568 0.88799064 2.18866504] w\_new= [-0.0766559 0.88799059 2.18866531]

gradient= [-2.12808649e-05 -5.28256162e-06 2.65634266e-05] w = [-0.0766559 0.88799059 2.18866531] w\_new= [-0.07665611 0.88799053 2.18866558]

gradient= [-2.12511033e-05 -5.27566585e-06 2.65267691e-05] w = [-0.07665611 0.88799053 2.18866558] w\_new= [-0.07665632 0.88799048 2.18866584]

gradient= [-2.12213833e-05 -5.26877898e-06 2.64901622e-05] w = [-0.07665632 0.88799048 2.18866584] w\_new= [-0.07665653 0.88799043 2.18866611]

gradient= [-2.11917049e-05 -5.26190102e-06 2.64536059e-05] w = [-0.07665653 0.88799043 2.18866611] w\_new= [-0.07665674 0.88799037 2.18866637]

gradient= [-2.11620680e-05 -5.25503194e-06 2.64171000e-05] w = [-0.07665674 0.88799037 2.18866637] w\_new= [-0.07665696 0.88799032 2.18866663]

gradient= [-2.11324727e-05 -5.24817174e-06 2.63806444e-05] w = [-0.07665696 0.88799032 2.18866663] w\_new= [-0.07665717 0.88799027 2.1886669 ]

gradient= [-2.11029188e-05 -5.24132040e-06 2.63442392e-05] w = [-0.07665717 0.88799027 2.1886669 ] w\_new= [-0.07665738 0.88799022 2.18866716]

gradient= [-2.10734062e-05 -5.23447791e-06 2.63078841e-05] w = [-0.07665738 0.88799022 2.18866716] w\_new= [-0.07665759 0.88799016 2.18866742]

gradient= [-2.10439350e-05 -5.22764427e-06 2.62715793e-05] w = [-0.07665759 0.88799016 2.18866742] w\_new= [-0.0766578 0.88799011 2.18866769]

gradient= [-2.10145050e-05 -5.22081946e-06 2.62353245e-05] w = [-0.0766578 0.88799011 2.18866769] w\_new= [-0.07665801 0.88799006 2.18866795]

gradient= [-2.09851163e-05 -5.21400346e-06 2.61991198e-05] w = [-0.07665801 0.88799006 2.18866795] w\_new= [-0.07665822 0.88799001 2.18866821]

gradient= [-2.09557687e-05 -5.20719628e-06 2.61629650e-05] w = [-0.07665822 0.88799001 2.18866821] w\_new= [-0.07665843 0.88798996 2.18866847]

gradient= [-2.09264622e-05 -5.20039789e-06 2.61268600e-05] w = [-0.07665843 0.88798996 2.18866847] w\_new= [-0.07665864 0.8879899 2.18866873]

gradient= [-2.08971967e-05 -5.19360829e-06 2.60908049e-05] w = [-0.07665864 0.8879899 2.18866873] w\_new= [-0.07665885 0.88798985 2.188669 ]

gradient= [-2.08679721e-05 -5.18682746e-06 2.60547996e-05] w = [-0.07665885 0.88798985 2.188669 ] w\_new= [-0.07665906 0.8879898 2.18866926]

gradient= [-2.08387885e-05 -5.18005539e-06 2.60188439e-05] w = [-0.07665906 0.8879898 2.18866926] w\_new= [-0.07665926 0.88798975 2.18866952]

gradient= [-2.08096458e-05 -5.17329208e-06 2.59829378e-05] w = [-0.07665926 0.88798975 2.18866952] w\_new= [-0.07665947 0.8879897 2.18866978]

gradient= [-2.07805438e-05 -5.16653751e-06 2.59470813e-05] w = [-0.07665947 0.8879897 2.18866978] w\_new= [-0.07665968 0.88798965 2.18867004]

gradient= [-2.07514826e-05 -5.15979166e-06 2.59112743e-05] w = [-0.07665968 0.88798965 2.18867004] w\_new= [-0.07665989 0.88798959 2.18867029]

gradient= [-2.07224621e-05 -5.15305454e-06 2.58755166e-05] w = [-0.07665989 0.88798959 2.18867029] w\_new= [-0.0766601 0.88798954 2.18867055]

gradient= [-2.06934822e-05 -5.14632612e-06 2.58398083e-05] w = [-0.0766601 0.88798954 2.18867055] w\_new= [-0.0766603 0.88798949 2.18867081]

gradient= [-2.06645429e-05 -5.13960640e-06 2.58041493e-05] w = [-0.0766603 0.88798949 2.18867081] w\_new= [-0.07666051 0.88798944 2.18867107]

gradient= [-2.06356440e-05 -5.13289537e-06 2.57685394e-05] w = [-0.07666051 0.88798944 2.18867107] w\_new= [-0.07666072 0.88798939 2.18867133]

gradient= [-2.06067857e-05 -5.12619300e-06 2.57329787e-05] w = [-0.07666072 0.88798939 2.18867133] w\_new= [-0.07666092 0.88798934 2.18867158]

gradient= [-2.05779677e-05 -5.11949931e-06 2.56974670e-05] w = [-0.07666092 0.88798934 2.18867158] w\_new= [-0.07666113 0.88798929 2.18867184]

gradient= [-2.05491901e-05 -5.11281426e-06 2.56620044e-05] w = [-0.07666113 0.88798929 2.18867184] w\_new= [-0.07666133 0.88798923 2.1886721 ]

gradient= [-2.05204528e-05 -5.10613785e-06 2.56265907e-05] w = [-0.07666133 0.88798923 2.1886721 ] w\_new= [-0.07666154 0.88798918 2.18867235]

gradient= [-2.04917557e-05 -5.09947008e-06 2.55912258e-05] w = [-0.07666154 0.88798918 2.18867235] w\_new= [-0.07666174 0.88798913 2.18867261]

gradient= [-2.04630988e-05 -5.09281092e-06 2.55559097e-05] w = [-0.07666174 0.88798913 2.18867261] w\_new= [-0.07666195 0.88798908 2.18867287]

gradient= [-2.04344820e-05 -5.08616037e-06 2.55206424e-05] w = [-0.07666195 0.88798908 2.18867287] w\_new= [-0.07666215 0.88798903 2.18867312]

gradient= [-2.04059053e-05 -5.07951842e-06 2.54854237e-05] w = [-0.07666215 0.88798903 2.18867312] w\_new= [-0.07666236 0.88798898 2.18867338]

gradient= [-2.03773686e-05 -5.07288506e-06 2.54502536e-05] w = [-0.07666236 0.88798898 2.18867338] w\_new= [-0.07666256 0.88798893 2.18867363]

gradient= [-2.03488718e-05 -5.06626027e-06 2.54151321e-05] w = [-0.07666256 0.88798893 2.18867363] w\_new= [-0.07666276 0.88798888 2.18867388]

gradient= [-2.03204149e-05 -5.05964404e-06 2.53800590e-05] w = [-0.07666276 0.88798888 2.18867388] w\_new= [-0.07666297 0.88798883 2.18867414]

gradient= [-2.02919979e-05 -5.05303637e-06 2.53450342e-05] w = [-0.07666297 0.88798883 2.18867414] w\_new= [-0.07666317 0.88798878 2.18867439]

gradient= [-2.02636206e-05 -5.04643723e-06 2.53100578e-05] w = [-0.07666317 0.88798878 2.18867439] w\_new= [-0.07666337 0.88798873 2.18867465]

gradient= [-2.02352831e-05 -5.03984663e-06 2.52751297e-05] w = [-0.07666337 0.88798873 2.18867465] w\_new= [-0.07666357 0.88798868 2.1886749 ]

gradient= [-2.02069852e-05 -5.03326455e-06 2.52402498e-05] w = [-0.07666357 0.88798868 2.1886749 ] w\_new= [-0.07666378 0.88798863 2.18867515]

gradient= [-2.01787270e-05 -5.02669098e-06 2.52054180e-05] w = [-0.07666378 0.88798863 2.18867515] w\_new= [-0.07666398 0.88798858 2.1886754 ]

gradient= [-2.01505083e-05 -5.02012591e-06 2.51706342e-05] w = [-0.07666398 0.88798858 2.1886754 ] w\_new= [-0.07666418 0.88798853 2.18867565]

gradient= [-2.01223291e-05 -5.01356933e-06 2.51358984e-05] w = [-0.07666418 0.88798853 2.18867565] w\_new= [-0.07666438 0.88798848 2.18867591]

gradient= [-2.00941894e-05 -5.00702122e-06 2.51012106e-05] w = [-0.07666438 0.88798848 2.18867591] w\_new= [-0.07666458 0.88798843 2.18867616]

gradient= [-2.00660890e-05 -5.00048158e-06 2.50665706e-05] w = [-0.07666458 0.88798843 2.18867616] w\_new= [-0.07666478 0.88798838 2.18867641]

gradient= [-2.00380280e-05 -4.99395040e-06 2.50319784e-05] w = [-0.07666478 0.88798838 2.18867641] w\_new= [-0.07666498 0.88798833 2.18867666]

gradient= [-2.00100063e-05 -4.98742766e-06 2.49974340e-05] w = [-0.07666498 0.88798833 2.18867666] w\_new= [-0.07666518 0.88798828 2.18867691]

gradient= [-1.99820238e-05 -4.98091335e-06 2.49629372e-05] w = [-0.07666518 0.88798828 2.18867691] w\_new= [-0.07666538 0.88798823 2.18867716]

gradient= [-1.99540805e-05 -4.97440746e-06 2.49284880e-05] w = [-0.07666538 0.88798823 2.18867716] w\_new= [-0.07666558 0.88798818 2.18867741]

gradient= [-1.99261763e-05 -4.96790999e-06 2.48940863e-05] w = [-0.07666558 0.88798818 2.18867741] w\_new= [-0.07666578 0.88798813 2.18867766]

gradient= [-1.98983112e-05 -4.96142092e-06 2.48597321e-05] w = [-0.07666578 0.88798813 2.18867766] w\_new= [-0.07666598 0.88798808 2.1886779 ]

gradient= [-1.98704851e-05 -4.95494024e-06 2.48254253e-05] w = [-0.07666598 0.88798808 2.1886779 ] w\_new= [-0.07666618 0.88798803 2.18867815]

gradient= [-1.98426979e-05 -4.94846794e-06 2.47911659e-05] w = [-0.07666618 0.88798803 2.18867815] w\_new= [-0.07666638 0.88798798 2.1886784 ]

gradient= [-1.98149496e-05 -4.94200402e-06 2.47569537e-05] w = [-0.07666638 0.88798798 2.1886784 ] w\_new= [-0.07666658 0.88798793 2.18867865]

gradient= [-1.97872402e-05 -4.93554844e-06 2.47227887e-05] w = [-0.07666658 0.88798793 2.18867865] w\_new= [-0.07666677 0.88798788 2.18867889]

gradient= [-1.97595696e-05 -4.92910122e-06 2.46886708e-05] w = [-0.07666677 0.88798788 2.18867889] w\_new= [-0.07666697 0.88798783 2.18867914]

gradient= [-1.97319377e-05 -4.92266234e-06 2.46546000e-05] w = [-0.07666697 0.88798783 2.18867914] w\_new= [-0.07666717 0.88798778 2.18867939]

gradient= [-1.97043445e-05 -4.91623178e-06 2.46205763e-05] w = [-0.07666717 0.88798778 2.18867939] w\_new= [-0.07666737 0.88798773 2.18867963]

gradient= [-1.96767899e-05 -4.90980953e-06 2.45865994e-05] w = [-0.07666737 0.88798773 2.18867963] w\_new= [-0.07666756 0.88798768 2.18867988]

gradient= [-1.96492739e-05 -4.90339560e-06 2.45526695e-05] w = [-0.07666756 0.88798768 2.18867988] w\_new= [-0.07666776 0.88798763 2.18868013]

gradient= [-1.96217964e-05 -4.89698995e-06 2.45187863e-05] w = [-0.07666776 0.88798763 2.18868013] w\_new= [-0.07666795 0.88798758 2.18868037]

gradient= [-1.95943574e-05 -4.89059260e-06 2.44849500e-05] w = [-0.07666795 0.88798758 2.18868037] w\_new= [-0.07666815 0.88798753 2.18868062]

gradient= [-1.95669568e-05 -4.88420351e-06 2.44511603e-05] w = [-0.07666815 0.88798753 2.18868062] w\_new= [-0.07666835 0.88798749 2.18868086]

gradient= [-1.95395945e-05 -4.87782269e-06 2.44174172e-05] w = [-0.07666835 0.88798749 2.18868086] w\_new= [-0.07666854 0.88798744 2.1886811 ]

gradient= [-1.95122705e-05 -4.87145012e-06 2.43837207e-05] w = [-0.07666854 0.88798744 2.1886811 ] w\_new= [-0.07666874 0.88798739 2.18868135]

gradient= [-1.94849848e-05 -4.86508579e-06 2.43500706e-05] w = [-0.07666874 0.88798739 2.18868135] w\_new= [-0.07666893 0.88798734 2.18868159]

gradient= [-1.94577373e-05 -4.85872970e-06 2.43164670e-05] w = [-0.07666893 0.88798734 2.18868159] w\_new= [-0.07666913 0.88798729 2.18868184]

gradient= [-1.94305280e-05 -4.85238182e-06 2.42829098e-05] w = [-0.07666913 0.88798729 2.18868184] w\_new= [-0.07666932 0.88798724 2.18868208]

gradient= [-1.94033567e-05 -4.84604216e-06 2.42493989e-05] w = [-0.07666932 0.88798724 2.18868208] w\_new= [-0.07666951 0.88798719 2.18868232]

gradient= [-1.93762235e-05 -4.83971070e-06 2.42159342e-05] w = [-0.07666951 0.88798719 2.18868232] w\_new= [-0.07666971 0.88798715 2.18868256]

gradient= [-1.93491282e-05 -4.83338742e-06 2.41825156e-05] w = [-0.07666971 0.88798715 2.18868256] w\_new= [-0.0766699 0.8879871 2.1886828]

gradient= [-1.93220709e-05 -4.82707233e-06 2.41491432e-05] w = [-0.0766699 0.8879871 2.1886828] w\_new= [-0.0766701 0.88798705 2.18868305]

gradient= [-1.92950514e-05 -4.82076540e-06 2.41158168e-05] w = [-0.0766701 0.88798705 2.18868305] w\_new= [-0.07667029 0.887987 2.18868329]

gradient= [-1.92680698e-05 -4.81446663e-06 2.40825365e-05] w = [-0.07667029 0.887987 2.18868329] w\_new= [-0.07667048 0.88798695 2.18868353]

gradient= [-1.92411260e-05 -4.80817601e-06 2.40493020e-05] w = [-0.07667048 0.88798695 2.18868353] w\_new= [-0.07667067 0.88798691 2.18868377]

gradient= [-1.92142198e-05 -4.80189353e-06 2.40161134e-05] w = [-0.07667067 0.88798691 2.18868377] w\_new= [-0.07667087 0.88798686 2.18868401]

gradient= [-1.91873514e-05 -4.79561917e-06 2.39829705e-05] w = [-0.07667087 0.88798686 2.18868401] w\_new= [-0.07667106 0.88798681 2.18868425]

gradient= [-1.91605205e-05 -4.78935293e-06 2.39498734e-05] w = [-0.07667106 0.88798681 2.18868425] w\_new= [-0.07667125 0.88798676 2.18868449]

gradient= [-1.91337272e-05 -4.78309480e-06 2.39168220e-05] w = [-0.07667125 0.88798676 2.18868449] w\_new= [-0.07667144 0.88798671 2.18868473]

gradient= [-1.91069714e-05 -4.77684476e-06 2.38838162e-05] w = [-0.07667144 0.88798671 2.18868473] w\_new= [-0.07667163 0.88798667 2.18868497]

gradient= [-1.90802531e-05 -4.77060281e-06 2.38508559e-05] w = [-0.07667163 0.88798667 2.18868497] w\_new= [-0.07667182 0.88798662 2.1886852 ]

gradient= [-1.90535721e-05 -4.76436893e-06 2.38179411e-05] w = [-0.07667182 0.88798662 2.1886852 ] w\_new= [-0.07667201 0.88798657 2.18868544]

gradient= [-1.90269286e-05 -4.75814312e-06 2.37850717e-05] w = [-0.07667201 0.88798657 2.18868544] w\_new= [-0.0766722 0.88798652 2.18868568]

gradient= [-1.90003223e-05 -4.75192536e-06 2.37522476e-05] w = [-0.0766722 0.88798652 2.18868568] w\_new= [-0.07667239 0.88798648 2.18868592]

gradient= [-1.89737532e-05 -4.74571565e-06 2.37194689e-05] w = [-0.07667239 0.88798648 2.18868592] w\_new= [-0.07667258 0.88798643 2.18868616]

gradient= [-1.89472214e-05 -4.73951397e-06 2.36867353e-05] w = [-0.07667258 0.88798643 2.18868616] w\_new= [-0.07667277 0.88798638 2.18868639]

gradient= [-1.89207267e-05 -4.73332031e-06 2.36540470e-05] w = [-0.07667277 0.88798638 2.18868639] w\_new= [-0.07667296 0.88798633 2.18868663]

gradient= [-1.88942690e-05 -4.72713467e-06 2.36214037e-05] w = [-0.07667296 0.88798633 2.18868663] w\_new= [-0.07667315 0.88798629 2.18868686]

gradient= [-1.88678485e-05 -4.72095703e-06 2.35888055e-05] w = [-0.07667315 0.88798629 2.18868686] w\_new= [-0.07667334 0.88798624 2.1886871 ]

gradient= [-1.88414649e-05 -4.71478738e-06 2.35562522e-05] w = [-0.07667334 0.88798624 2.1886871 ] w\_new= [-0.07667353 0.88798619 2.18868734]

gradient= [-1.88151182e-05 -4.70862572e-06 2.35237439e-05] w = [-0.07667353 0.88798619 2.18868734] w\_new= [-0.07667372 0.88798614 2.18868757]

gradient= [-1.87888084e-05 -4.70247203e-06 2.34912804e-05] w = [-0.07667372 0.88798614 2.18868757] w\_new= [-0.0766739 0.8879861 2.18868781]

gradient= [-1.87625354e-05 -4.69632630e-06 2.34588617e-05] w = [-0.0766739 0.8879861 2.18868781] w\_new= [-0.07667409 0.88798605 2.18868804]

gradient= [-1.87362992e-05 -4.69018853e-06 2.34264878e-05] w = [-0.07667409 0.88798605 2.18868804] w\_new= [-0.07667428 0.887986 2.18868828]

gradient= [-1.87100998e-05 -4.68405869e-06 2.33941585e-05] w = [-0.07667428 0.887986 2.18868828] w\_new= [-0.07667447 0.88798596 2.18868851]

gradient= [-1.86839370e-05 -4.67793679e-06 2.33618738e-05] w = [-0.07667447 0.88798596 2.18868851] w\_new= [-0.07667465 0.88798591 2.18868874]

gradient= [-1.86578108e-05 -4.67182281e-06 2.33296337e-05] w = [-0.07667465 0.88798591 2.18868874] w\_new= [-0.07667484 0.88798586 2.18868898]

gradient= [-1.86317213e-05 -4.66571674e-06 2.32974380e-05] w = [-0.07667484 0.88798586 2.18868898] w\_new= [-0.07667503 0.88798582 2.18868921]

gradient= [-1.86056682e-05 -4.65961857e-06 2.32652868e-05] w = [-0.07667503 0.88798582 2.18868921] w\_new= [-0.07667521 0.88798577 2.18868944]

gradient= [-1.85796516e-05 -4.65352830e-06 2.32331799e-05] w = [-0.07667521 0.88798577 2.18868944] w\_new= [-0.0766754 0.88798572 2.18868967]

gradient= [-1.85536714e-05 -4.64744590e-06 2.32011173e-05] w = [-0.0766754 0.88798572 2.18868967] w\_new= [-0.07667558 0.88798568 2.18868991]

gradient= [-1.85277276e-05 -4.64137138e-06 2.31690990e-05] w = [-0.07667558 0.88798568 2.18868991] w\_new= [-0.07667577 0.88798563 2.18869014]

gradient= [-1.85018201e-05 -4.63530472e-06 2.31371248e-05] w = [-0.07667577 0.88798563 2.18869014] w\_new= [-0.07667595 0.88798558 2.18869037]

gradient= [-1.84759489e-05 -4.62924591e-06 2.31051948e-05] w = [-0.07667595 0.88798558 2.18869037] w\_new= [-0.07667614 0.88798554 2.1886906 ]

gradient= [-1.84501139e-05 -4.62319494e-06 2.30733088e-05] w = [-0.07667614 0.88798554 2.1886906 ] w\_new= [-0.07667632 0.88798549 2.18869083]

gradient= [-1.84243150e-05 -4.61715180e-06 2.30414668e-05] w = [-0.07667632 0.88798549 2.18869083] w\_new= [-0.07667651 0.88798545 2.18869106]

gradient= [-1.83985523e-05 -4.61111649e-06 2.30096687e-05] w = [-0.07667651 0.88798545 2.18869106] w\_new= [-0.07667669 0.8879854 2.18869129]

gradient= [-1.83728256e-05 -4.60508898e-06 2.29779146e-05] w = [-0.07667669 0.8879854 2.18869129] w\_new= [-0.07667687 0.88798535 2.18869152]

gradient= [-1.83471349e-05 -4.59906928e-06 2.29462042e-05] w = [-0.07667687 0.88798535 2.18869152] w\_new= [-0.07667706 0.88798531 2.18869175]

gradient= [-1.83214802e-05 -4.59305736e-06 2.29145376e-05] w = [-0.07667706 0.88798531 2.18869175] w\_new= [-0.07667724 0.88798526 2.18869198]

gradient= [-1.82958614e-05 -4.58705323e-06 2.28829146e-05] w = [-0.07667724 0.88798526 2.18869198] w\_new= [-0.07667742 0.88798522 2.18869221]

gradient= [-1.82702785e-05 -4.58105687e-06 2.28513354e-05] w = [-0.07667742 0.88798522 2.18869221] w\_new= [-0.07667761 0.88798517 2.18869244]

gradient= [-1.82447314e-05 -4.57506827e-06 2.28197996e-05] w = [-0.07667761 0.88798517 2.18869244] w\_new= [-0.07667779 0.88798512 2.18869267]

gradient= [-1.82192200e-05 -4.56908742e-06 2.27883074e-05] w = [-0.07667779 0.88798512 2.18869267] w\_new= [-0.07667797 0.88798508 2.18869289]

gradient= [-1.81937443e-05 -4.56311431e-06 2.27568587e-05] w = [-0.07667797 0.88798508 2.18869289] w\_new= [-0.07667815 0.88798503 2.18869312]

gradient= [-1.81683043e-05 -4.55714894e-06 2.27254533e-05] w = [-0.07667815 0.88798503 2.18869312] w\_new= [-0.07667833 0.88798499 2.18869335]

gradient= [-1.81429000e-05 -4.55119129e-06 2.26940913e-05] w = [-0.07667833 0.88798499 2.18869335] w\_new= [-0.07667852 0.88798494 2.18869357]

gradient= [-1.81175311e-05 -4.54524134e-06 2.26627725e-05] w = [-0.07667852 0.88798494 2.18869357] w\_new= [-0.0766787 0.8879849 2.1886938]

gradient= [-1.80921978e-05 -4.53929910e-06 2.26314969e-05] w = [-0.0766787 0.8879849 2.1886938] w\_new= [-0.07667888 0.88798485 2.18869403]

gradient= [-1.80669000e-05 -4.53336456e-06 2.26002645e-05] w = [-0.07667888 0.88798485 2.18869403] w\_new= [-0.07667906 0.88798481 2.18869425]

gradient= [-1.80416375e-05 -4.52743769e-06 2.25690752e-05] w = [-0.07667906 0.88798481 2.18869425] w\_new= [-0.07667924 0.88798476 2.18869448]

gradient= [-1.80164105e-05 -4.52151850e-06 2.25379290e-05] w = [-0.07667924 0.88798476 2.18869448] w\_new= [-0.07667942 0.88798471 2.1886947 ]

gradient= [-1.79912187e-05 -4.51560697e-06 2.25068257e-05] w = [-0.07667942 0.88798471 2.1886947 ] w\_new= [-0.0766796 0.88798467 2.18869493]

gradient= [-1.79660622e-05 -4.50970309e-06 2.24757653e-05] w = [-0.0766796 0.88798467 2.18869493] w\_new= [-0.07667978 0.88798462 2.18869515]

gradient= [-1.79409409e-05 -4.50380686e-06 2.24447477e-05] w = [-0.07667978 0.88798462 2.18869515] w\_new= [-0.07667996 0.88798458 2.18869538]

gradient= [-1.79158548e-05 -4.49791826e-06 2.24137730e-05] w = [-0.07667996 0.88798458 2.18869538] w\_new= [-0.07668014 0.88798453 2.1886956 ]

gradient= [-1.78908037e-05 -4.49203728e-06 2.23828410e-05] w = [-0.07668014 0.88798453 2.1886956 ] w\_new= [-0.07668032 0.88798449 2.18869583]

gradient= [-1.78657878e-05 -4.48616392e-06 2.23519517e-05] w = [-0.07668032 0.88798449 2.18869583] w\_new= [-0.0766805 0.88798444 2.18869605]

gradient= [-1.78408069e-05 -4.48029816e-06 2.23211050e-05] w = [-0.0766805 0.88798444 2.18869605] w\_new= [-0.07668067 0.8879844 2.18869627]

gradient= [-1.78158609e-05 -4.47443999e-06 2.22903009e-05] w = [-0.07668067 0.8879844 2.18869627] w\_new= [-0.07668085 0.88798436 2.1886965 ]

gradient= [-1.77909498e-05 -4.46858941e-06 2.22595392e-05] w = [-0.07668085 0.88798436 2.1886965 ] w\_new= [-0.07668103 0.88798431 2.18869672]

gradient= [-1.77660737e-05 -4.46274641e-06 2.22288201e-05] w = [-0.07668103 0.88798431 2.18869672] w\_new= [-0.07668121 0.88798427 2.18869694]

gradient= [-1.77412323e-05 -4.45691097e-06 2.21981433e-05] w = [-0.07668121 0.88798427 2.18869694] w\_new= [-0.07668138 0.88798422 2.18869716]

gradient= [-1.77164257e-05 -4.45108308e-06 2.21675088e-05] w = [-0.07668138 0.88798422 2.18869716] w\_new= [-0.07668156 0.88798418 2.18869739]

gradient= [-1.76916538e-05 -4.44526274e-06 2.21369166e-05] w = [-0.07668156 0.88798418 2.18869739] w\_new= [-0.07668174 0.88798413 2.18869761]

gradient= [-1.76669166e-05 -4.43944994e-06 2.21063666e-05] w = [-0.07668174 0.88798413 2.18869761] w\_new= [-0.07668192 0.88798409 2.18869783]

gradient= [-1.76422141e-05 -4.43364466e-06 2.20758587e-05] w = [-0.07668192 0.88798409 2.18869783] w\_new= [-0.07668209 0.88798404 2.18869805]

gradient= [-1.76175461e-05 -4.42784691e-06 2.20453930e-05] w = [-0.07668209 0.88798404 2.18869805] w\_new= [-0.07668227 0.887984 2.18869827]

gradient= [-1.75929126e-05 -4.42205665e-06 2.20149693e-05] w = [-0.07668227 0.887984 2.18869827] w\_new= [-0.07668244 0.88798395 2.18869849]

gradient= [-1.75683136e-05 -4.41627390e-06 2.19845875e-05] w = [-0.07668244 0.88798395 2.18869849] w\_new= [-0.07668262 0.88798391 2.18869871]

gradient= [-1.75437491e-05 -4.41049864e-06 2.19542477e-05] w = [-0.07668262 0.88798391 2.18869871] w\_new= [-0.0766828 0.88798387 2.18869893]

gradient= [-1.75192189e-05 -4.40473085e-06 2.19239497e-05] w = [-0.0766828 0.88798387 2.18869893] w\_new= [-0.07668297 0.88798382 2.18869915]

gradient= [-1.74947231e-05 -4.39897053e-06 2.18936936e-05] w = [-0.07668297 0.88798382 2.18869915] w\_new= [-0.07668315 0.88798378 2.18869937]

gradient= [-1.74702615e-05 -4.39321767e-06 2.18634792e-05] w = [-0.07668315 0.88798378 2.18869937] w\_new= [-0.07668332 0.88798373 2.18869959]

gradient= [-1.74458342e-05 -4.38747226e-06 2.18333065e-05] w = [-0.07668332 0.88798373 2.18869959] w\_new= [-0.07668349 0.88798369 2.1886998 ]

gradient= [-1.74214411e-05 -4.38173430e-06 2.18031754e-05] w = [-0.07668349 0.88798369 2.1886998 ] w\_new= [-0.07668367 0.88798365 2.18870002]

gradient= [-1.73970821e-05 -4.37600376e-06 2.17730859e-05] w = [-0.07668367 0.88798365 2.18870002] w\_new= [-0.07668384 0.8879836 2.18870024]

gradient= [-1.73727572e-05 -4.37028064e-06 2.17430379e-05] w = [-0.07668384 0.8879836 2.18870024] w\_new= [-0.07668402 0.88798356 2.18870046]

gradient= [-1.73484664e-05 -4.36456494e-06 2.17130313e-05] w = [-0.07668402 0.88798356 2.18870046] w\_new= [-0.07668419 0.88798352 2.18870067]

gradient= [-1.73242096e-05 -4.35885664e-06 2.16830662e-05] w = [-0.07668419 0.88798352 2.18870067] w\_new= [-0.07668436 0.88798347 2.18870089]

gradient= [-1.72999867e-05 -4.35315573e-06 2.16531424e-05] w = [-0.07668436 0.88798347 2.18870089] w\_new= [-0.07668454 0.88798343 2.18870111]

gradient= [-1.72757977e-05 -4.34746220e-06 2.16232599e-05] w = [-0.07668454 0.88798343 2.18870111] w\_new= [-0.07668471 0.88798339 2.18870132]

gradient= [-1.72516426e-05 -4.34177605e-06 2.15934186e-05] w = [-0.07668471 0.88798339 2.18870132] w\_new= [-0.07668488 0.88798334 2.18870154]

gradient= [-1.72275213e-05 -4.33609727e-06 2.15636185e-05] w = [-0.07668488 0.88798334 2.18870154] w\_new= [-0.07668505 0.8879833 2.18870176]

gradient= [-1.72034337e-05 -4.33042584e-06 2.15338595e-05] w = [-0.07668505 0.8879833 2.18870176] w\_new= [-0.07668523 0.88798326 2.18870197]

gradient= [-1.71793799e-05 -4.32476175e-06 2.15041416e-05] w = [-0.07668523 0.88798326 2.18870197] w\_new= [-0.0766854 0.88798321 2.18870219]

gradient= [-1.71553597e-05 -4.31910500e-06 2.14744647e-05] w = [-0.0766854 0.88798321 2.18870219] w\_new= [-0.07668557 0.88798317 2.1887024 ]

gradient= [-1.71313732e-05 -4.31345558e-06 2.14448287e-05] w = [-0.07668557 0.88798317 2.1887024 ] w\_new= [-0.07668574 0.88798313 2.18870261]

gradient= [-1.71074202e-05 -4.30781348e-06 2.14152337e-05] w = [-0.07668574 0.88798313 2.18870261] w\_new= [-0.07668591 0.88798308 2.18870283]

gradient= [-1.70835007e-05 -4.30217868e-06 2.13856794e-05] w = [-0.07668591 0.88798308 2.18870283] w\_new= [-0.07668608 0.88798304 2.18870304]

gradient= [-1.70596148e-05 -4.29655118e-06 2.13561659e-05] w = [-0.07668608 0.88798304 2.18870304] w\_new= [-0.07668625 0.887983 2.18870326]

gradient= [-1.70357622e-05 -4.29093098e-06 2.13266932e-05] w = [-0.07668625 0.887983 2.18870326] w\_new= [-0.07668642 0.88798295 2.18870347]

gradient= [-1.70119431e-05 -4.28531805e-06 2.12972611e-05] w = [-0.07668642 0.88798295 2.18870347] w\_new= [-0.07668659 0.88798291 2.18870368]

gradient= [-1.69881573e-05 -4.27971239e-06 2.12678697e-05] w = [-0.07668659 0.88798291 2.18870368] w\_new= [-0.07668676 0.88798287 2.1887039 ]

gradient= [-1.69644047e-05 -4.27411400e-06 2.12385187e-05] w = [-0.07668676 0.88798287 2.1887039 ] w\_new= [-0.07668693 0.88798283 2.18870411]

gradient= [-1.69406855e-05 -4.26852285e-06 2.12092083e-05] w = [-0.07668693 0.88798283 2.18870411] w\_new= [-0.0766871 0.88798278 2.18870432]

gradient= [-1.69169994e-05 -4.26293895e-06 2.11799383e-05] w = [-0.0766871 0.88798278 2.18870432] w\_new= [-0.07668727 0.88798274 2.18870453]

gradient= [-1.68933465e-05 -4.25736229e-06 2.11507088e-05] w = [-0.07668727 0.88798274 2.18870453] w\_new= [-0.07668744 0.8879827 2.18870474]

gradient= [-1.68697266e-05 -4.25179285e-06 2.11215195e-05] w = [-0.07668744 0.8879827 2.18870474] w\_new= [-0.07668761 0.88798265 2.18870495]

gradient= [-1.68461399e-05 -4.24623062e-06 2.10923705e-05] w = [-0.07668761 0.88798265 2.18870495] w\_new= [-0.07668778 0.88798261 2.18870517]

gradient= [-1.68225861e-05 -4.24067560e-06 2.10632617e-05] w = [-0.07668778 0.88798261 2.18870517] w\_new= [-0.07668795 0.88798257 2.18870538]

gradient= [-1.67990654e-05 -4.23512778e-06 2.10341931e-05] w = [-0.07668795 0.88798257 2.18870538] w\_new= [-0.07668811 0.88798253 2.18870559]

gradient= [-1.67755775e-05 -4.22958714e-06 2.10051646e-05] w = [-0.07668811 0.88798253 2.18870559] w\_new= [-0.07668828 0.88798249 2.1887058 ]

gradient= [-1.67521225e-05 -4.22405369e-06 2.09761762e-05] w = [-0.07668828 0.88798249 2.1887058 ] w\_new= [-0.07668845 0.88798244 2.18870601]

gradient= [-1.67287004e-05 -4.21852740e-06 2.09472278e-05] w = [-0.07668845 0.88798244 2.18870601] w\_new= [-0.07668862 0.8879824 2.18870622]

gradient= [-1.67053110e-05 -4.21300827e-06 2.09183192e-05] w = [-0.07668862 0.8879824 2.18870622] w\_new= [-0.07668878 0.88798236 2.18870642]

gradient= [-1.66819543e-05 -4.20749629e-06 2.08894506e-05] w = [-0.07668878 0.88798236 2.18870642] w\_new= [-0.07668895 0.88798232 2.18870663]

gradient= [-1.66586304e-05 -4.20199146e-06 2.08606218e-05] w = [-0.07668895 0.88798232 2.18870663] w\_new= [-0.07668912 0.88798227 2.18870684]

gradient= [-1.66353391e-05 -4.19649376e-06 2.08318328e-05] w = [-0.07668912 0.88798227 2.18870684] w\_new= [-0.07668928 0.88798223 2.18870705]

gradient= [-1.66120804e-05 -4.19100318e-06 2.08030836e-05] w = [-0.07668928 0.88798223 2.18870705] w\_new= [-0.07668945 0.88798219 2.18870726]

gradient= [-1.65888542e-05 -4.18551971e-06 2.07743739e-05] w = [-0.07668945 0.88798219 2.18870726] w\_new= [-0.07668962 0.88798215 2.18870747]

gradient= [-1.65656606e-05 -4.18004335e-06 2.07457039e-05] w = [-0.07668962 0.88798215 2.18870747] w\_new= [-0.07668978 0.88798211 2.18870767]

gradient= [-1.65424994e-05 -4.17457409e-06 2.07170735e-05] w = [-0.07668978 0.88798211 2.18870767] w\_new= [-0.07668995 0.88798207 2.18870788]

gradient= [-1.65193706e-05 -4.16911191e-06 2.06884826e-05] w = [-0.07668995 0.88798207 2.18870788] w\_new= [-0.07669011 0.88798202 2.18870809]

gradient= [-1.64962742e-05 -4.16365681e-06 2.06599311e-05] w = [-0.07669011 0.88798202 2.18870809] w\_new= [-0.07669028 0.88798198 2.18870829]

gradient= [-1.64732102e-05 -4.15820878e-06 2.06314190e-05] w = [-0.07669028 0.88798198 2.18870829] w\_new= [-0.07669044 0.88798194 2.1887085 ]

gradient= [-1.64501784e-05 -4.15276781e-06 2.06029462e-05] w = [-0.07669044 0.88798194 2.1887085 ] w\_new= [-0.07669061 0.8879819 2.18870871]

gradient= [-1.64271788e-05 -4.14733389e-06 2.05745127e-05] w = [-0.07669061 0.8879819 2.18870871] w\_new= [-0.07669077 0.88798186 2.18870891]

gradient= [-1.64042115e-05 -4.14190702e-06 2.05461185e-05] w = [-0.07669077 0.88798186 2.18870891] w\_new= [-0.07669093 0.88798182 2.18870912]

gradient= [-1.63812763e-05 -4.13648717e-06 2.05177634e-05] w = [-0.07669093 0.88798182 2.18870912] w\_new= [-0.0766911 0.88798177 2.18870932]

gradient= [-1.63583731e-05 -4.13107435e-06 2.04894475e-05] w = [-0.0766911 0.88798177 2.18870932] w\_new= [-0.07669126 0.88798173 2.18870953]

gradient= [-1.63355021e-05 -4.12566855e-06 2.04611706e-05] w = [-0.07669126 0.88798173 2.18870953] w\_new= [-0.07669142 0.88798169 2.18870973]

gradient= [-1.63126630e-05 -4.12026975e-06 2.04329328e-05] w = [-0.07669142 0.88798169 2.18870973] w\_new= [-0.07669159 0.88798165 2.18870994]

gradient= [-1.62898559e-05 -4.11487794e-06 2.04047339e-05] w = [-0.07669159 0.88798165 2.18870994] w\_new= [-0.07669175 0.88798161 2.18871014]

gradient= [-1.62670808e-05 -4.10949313e-06 2.03765739e-05] w = [-0.07669175 0.88798161 2.18871014] w\_new= [-0.07669191 0.88798157 2.18871034]

gradient= [-1.62443375e-05 -4.10411529e-06 2.03484528e-05] w = [-0.07669191 0.88798157 2.18871034] w\_new= [-0.07669208 0.88798153 2.18871055]

gradient= [-1.62216260e-05 -4.09874443e-06 2.03203704e-05] w = [-0.07669208 0.88798153 2.18871055] w\_new= [-0.07669224 0.88798149 2.18871075]

gradient= [-1.61989463e-05 -4.09338052e-06 2.02923269e-05] w = [-0.07669224 0.88798149 2.18871075] w\_new= [-0.0766924 0.88798145 2.18871095]

gradient= [-1.61762984e-05 -4.08802357e-06 2.02643220e-05] w = [-0.0766924 0.88798145 2.18871095] w\_new= [-0.07669256 0.8879814 2.18871116]

gradient= [-1.61536822e-05 -4.08267356e-06 2.02363557e-05] w = [-0.07669256 0.8879814 2.18871116] w\_new= [-0.07669272 0.88798136 2.18871136]

gradient= [-1.61310976e-05 -4.07733048e-06 2.02084281e-05] w = [-0.07669272 0.88798136 2.18871136] w\_new= [-0.07669288 0.88798132 2.18871156]

gradient= [-1.61085446e-05 -4.07199433e-06 2.01805390e-05] w = [-0.07669288 0.88798132 2.18871156] w\_new= [-0.07669305 0.88798128 2.18871176]

gradient= [-1.60860232e-05 -4.06666510e-06 2.01526883e-05] w = [-0.07669305 0.88798128 2.18871176] w\_new= [-0.07669321 0.88798124 2.18871196]

gradient= [-1.60635333e-05 -4.06134277e-06 2.01248761e-05] w = [-0.07669321 0.88798124 2.18871196] w\_new= [-0.07669337 0.8879812 2.18871217]

gradient= [-1.60410749e-05 -4.05602734e-06 2.00971023e-05] w = [-0.07669337 0.8879812 2.18871217] w\_new= [-0.07669353 0.88798116 2.18871237]

gradient= [-1.60186479e-05 -4.05071881e-06 2.00693667e-05] w = [-0.07669353 0.88798116 2.18871237] w\_new= [-0.07669369 0.88798112 2.18871257]

gradient= [-1.59962523e-05 -4.04541715e-06 2.00416695e-05] w = [-0.07669369 0.88798112 2.18871257] w\_new= [-0.07669385 0.88798108 2.18871277]

gradient= [-1.59738881e-05 -4.04012237e-06 2.00140105e-05] w = [-0.07669385 0.88798108 2.18871277] w\_new= [-0.07669401 0.88798104 2.18871297]

gradient= [-1.59515551e-05 -4.03483445e-06 1.99863896e-05] w = [-0.07669401 0.88798104 2.18871297] w\_new= [-0.07669417 0.887981 2.18871317]

gradient= [-1.59292534e-05 -4.02955338e-06 1.99588068e-05] w = [-0.07669417 0.887981 2.18871317] w\_new= [-0.07669433 0.88798096 2.18871337]

gradient= [-1.59069830e-05 -4.02427917e-06 1.99312621e-05] w = [-0.07669433 0.88798096 2.18871337] w\_new= [-0.07669449 0.88798092 2.18871357]

gradient= [-1.58847437e-05 -4.01901178e-06 1.99037554e-05] w = [-0.07669449 0.88798092 2.18871357] w\_new= [-0.07669464 0.88798088 2.18871377]

gradient= [-1.58625355e-05 -4.01375123e-06 1.98762867e-05] w = [-0.07669464 0.88798088 2.18871377] w\_new= [-0.0766948 0.88798084 2.18871396]

gradient= [-1.58403584e-05 -4.00849750e-06 1.98488559e-05] w = [-0.0766948 0.88798084 2.18871396] w\_new= [-0.07669496 0.8879808 2.18871416]

gradient= [-1.58182123e-05 -4.00325058e-06 1.98214629e-05] w = [-0.07669496 0.8879808 2.18871416] w\_new= [-0.07669512 0.88798076 2.18871436]

gradient= [-1.57960972e-05 -3.99801046e-06 1.97941077e-05] w = [-0.07669512 0.88798076 2.18871436] w\_new= [-0.07669528 0.88798072 2.18871456]

gradient= [-1.57740131e-05 -3.99277713e-06 1.97667902e-05] w = [-0.07669528 0.88798072 2.18871456] w\_new= [-0.07669544 0.88798068 2.18871476]

gradient= [-1.57519599e-05 -3.98755059e-06 1.97395105e-05] w = [-0.07669544 0.88798068 2.18871476] w\_new= [-0.07669559 0.88798064 2.18871495]

gradient= [-1.57299375e-05 -3.98233082e-06 1.97122683e-05] w = [-0.07669559 0.88798064 2.18871495] w\_new= [-0.07669575 0.8879806 2.18871515]

gradient= [-1.57079460e-05 -3.97711783e-06 1.96850638e-05] w = [-0.07669575 0.8879806 2.18871515] w\_new= [-0.07669591 0.88798056 2.18871535]

gradient= [-1.56859852e-05 -3.97191159e-06 1.96578968e-05] w = [-0.07669591 0.88798056 2.18871535] w\_new= [-0.07669606 0.88798052 2.18871555]

gradient= [-1.56640552e-05 -3.96671210e-06 1.96307673e-05] w = [-0.07669606 0.88798052 2.18871555] w\_new= [-0.07669622 0.88798048 2.18871574]

gradient= [-1.56421559e-05 -3.96151935e-06 1.96036752e-05] w = [-0.07669622 0.88798048 2.18871574] w\_new= [-0.07669638 0.88798044 2.18871594]

gradient= [-1.56202872e-05 -3.95633334e-06 1.95766205e-05] w = [-0.07669638 0.88798044 2.18871594] w\_new= [-0.07669653 0.8879804 2.18871613]

gradient= [-1.55984491e-05 -3.95115405e-06 1.95496032e-05] w = [-0.07669653 0.8879804 2.18871613] w\_new= [-0.07669669 0.88798036 2.18871633]

gradient= [-1.55766416e-05 -3.94598147e-06 1.95226231e-05] w = [-0.07669669 0.88798036 2.18871633] w\_new= [-0.07669685 0.88798032 2.18871652]

gradient= [-1.55548646e-05 -3.94081561e-06 1.94956802e-05] w = [-0.07669685 0.88798032 2.18871652] w\_new= [-0.076697 0.88798028 2.18871672]

gradient= [-1.55331181e-05 -3.93565644e-06 1.94687746e-05] w = [-0.076697 0.88798028 2.18871672] w\_new= [-0.07669716 0.88798024 2.18871691]

gradient= [-1.55114020e-05 -3.93050396e-06 1.94419060e-05] w = [-0.07669716 0.88798024 2.18871691] w\_new= [-0.07669731 0.8879802 2.18871711]

gradient= [-1.54897163e-05 -3.92535816e-06 1.94150745e-05] w = [-0.07669731 0.8879802 2.18871711] w\_new= [-0.07669747 0.88798016 2.1887173 ]

gradient= [-1.54680610e-05 -3.92021904e-06 1.93882800e-05] w = [-0.07669747 0.88798016 2.1887173 ] w\_new= [-0.07669762 0.88798012 2.1887175 ]

gradient= [-1.54464360e-05 -3.91508658e-06 1.93615225e-05] w = [-0.07669762 0.88798012 2.1887175 ] w\_new= [-0.07669778 0.88798009 2.18871769]

gradient= [-1.54248412e-05 -3.90996077e-06 1.93348020e-05] w = [-0.07669778 0.88798009 2.18871769] w\_new= [-0.07669793 0.88798005 2.18871788]

gradient= [-1.54032767e-05 -3.90484162e-06 1.93081183e-05] w = [-0.07669793 0.88798005 2.18871788] w\_new= [-0.07669808 0.88798001 2.18871808]

gradient= [-1.53817423e-05 -3.89972910e-06 1.92814714e-05] w = [-0.07669808 0.88798001 2.18871808] w\_new= [-0.07669824 0.88797997 2.18871827]

gradient= [-1.53602381e-05 -3.89462321e-06 1.92548613e-05] w = [-0.07669824 0.88797997 2.18871827] w\_new= [-0.07669839 0.88797993 2.18871846]

gradient= [-1.53387639e-05 -3.88952394e-06 1.92282879e-05] w = [-0.07669839 0.88797993 2.18871846] w\_new= [-0.07669854 0.88797989 2.18871865]

gradient= [-1.53173198e-05 -3.88443129e-06 1.92017511e-05] w = [-0.07669854 0.88797989 2.18871865] w\_new= [-0.0766987 0.88797985 2.18871885]

gradient= [-1.52959058e-05 -3.87934524e-06 1.91752510e-05] w = [-0.0766987 0.88797985 2.18871885] w\_new= [-0.07669885 0.88797981 2.18871904]

gradient= [-1.52745217e-05 -3.87426579e-06 1.91487874e-05] w = [-0.07669885 0.88797981 2.18871904] w\_new= [-0.076699 0.88797977 2.18871923]

gradient= [-1.52531675e-05 -3.86919292e-06 1.91223604e-05] w = [-0.076699 0.88797977 2.18871923] w\_new= [-0.07669916 0.88797974 2.18871942]

gradient= [-1.52318432e-05 -3.86412663e-06 1.90959698e-05] w = [-0.07669916 0.88797974 2.18871942] w\_new= [-0.07669931 0.8879797 2.18871961]

gradient= [-1.52105487e-05 -3.85906692e-06 1.90696157e-05] w = [-0.07669931 0.8879797 2.18871961] w\_new= [-0.07669946 0.88797966 2.1887198 ]

gradient= [-1.51892841e-05 -3.85401377e-06 1.90432979e-05] w = [-0.07669946 0.88797966 2.1887198 ] w\_new= [-0.07669961 0.88797962 2.18871999]

gradient= [-1.51680492e-05 -3.84896717e-06 1.90170164e-05] w = [-0.07669961 0.88797962 2.18871999] w\_new= [-0.07669976 0.88797958 2.18872018]

gradient= [-1.51468440e-05 -3.84392711e-06 1.89907711e-05] w = [-0.07669976 0.88797958 2.18872018] w\_new= [-0.07669992 0.88797954 2.18872037]

gradient= [-1.51256685e-05 -3.83889360e-06 1.89645621e-05] w = [-0.07669992 0.88797954 2.18872037] w\_new= [-0.07670007 0.8879795 2.18872056]

gradient= [-1.51045227e-05 -3.83386661e-06 1.89383893e-05] w = [-0.07670007 0.8879795 2.18872056] w\_new= [-0.07670022 0.88797947 2.18872075]

gradient= [-1.50834064e-05 -3.82884615e-06 1.89122525e-05] w = [-0.07670022 0.88797947 2.18872075] w\_new= [-0.07670037 0.88797943 2.18872094]

gradient= [-1.50623197e-05 -3.82383219e-06 1.88861519e-05] w = [-0.07670037 0.88797943 2.18872094] w\_new= [-0.07670052 0.88797939 2.18872113]

gradient= [-1.50412625e-05 -3.81882474e-06 1.88600872e-05] w = [-0.07670052 0.88797939 2.18872113] w\_new= [-0.07670067 0.88797935 2.18872132]

gradient= [-1.50202347e-05 -3.81382379e-06 1.88340585e-05] w = [-0.07670067 0.88797935 2.18872132] w\_new= [-0.07670082 0.88797931 2.18872151]

gradient= [-1.49992364e-05 -3.80882932e-06 1.88080657e-05] w = [-0.07670082 0.88797931 2.18872151] w\_new= [-0.07670097 0.88797928 2.18872169]

gradient= [-1.49782675e-05 -3.80384133e-06 1.87821088e-05] w = [-0.07670097 0.88797928 2.18872169] w\_new= [-0.07670112 0.88797924 2.18872188]

gradient= [-1.49573279e-05 -3.79885981e-06 1.87561877e-05] w = [-0.07670112 0.88797924 2.18872188] w\_new= [-0.07670127 0.8879792 2.18872207]

gradient= [-1.49364176e-05 -3.79388475e-06 1.87303024e-05] w = [-0.07670127 0.8879792 2.18872207] w\_new= [-0.07670142 0.88797916 2.18872226]

gradient= [-1.49155366e-05 -3.78891615e-06 1.87044528e-05] w = [-0.07670142 0.88797916 2.18872226] w\_new= [-0.07670157 0.88797912 2.18872244]

gradient= [-1.48946848e-05 -3.78395399e-06 1.86786388e-05] w = [-0.07670157 0.88797912 2.18872244] w\_new= [-0.07670172 0.88797909 2.18872263]

gradient= [-1.48738622e-05 -3.77899828e-06 1.86528605e-05] w = [-0.07670172 0.88797909 2.18872263] w\_new= [-0.07670186 0.88797905 2.18872282]

gradient= [-1.48530687e-05 -3.77404899e-06 1.86271177e-05] w = [-0.07670186 0.88797905 2.18872282] w\_new= [-0.07670201 0.88797901 2.188723 ]

gradient= [-1.48323044e-05 -3.76910612e-06 1.86014105e-05] w = [-0.07670201 0.88797901 2.188723 ] w\_new= [-0.07670216 0.88797897 2.18872319]

gradient= [-1.48115690e-05 -3.76416966e-06 1.85757387e-05] w = [-0.07670216 0.88797897 2.18872319] w\_new= [-0.07670231 0.88797893 2.18872338]

gradient= [-1.47908627e-05 -3.75923961e-06 1.85501023e-05] w = [-0.07670231 0.88797893 2.18872338] w\_new= [-0.07670246 0.8879789 2.18872356]

gradient= [-1.47701854e-05 -3.75431595e-06 1.85245014e-05] w = [-0.07670246 0.8879789 2.18872356] w\_new= [-0.07670261 0.88797886 2.18872375]

gradient= [-1.47495370e-05 -3.74939868e-06 1.84989357e-05] w = [-0.07670261 0.88797886 2.18872375] w\_new= [-0.07670275 0.88797882 2.18872393]

gradient= [-1.47289175e-05 -3.74448780e-06 1.84734053e-05] w = [-0.07670275 0.88797882 2.18872393] w\_new= [-0.0767029 0.88797878 2.18872412]

gradient= [-1.47083269e-05 -3.73958328e-06 1.84479102e-05] w = [-0.0767029 0.88797878 2.18872412] w\_new= [-0.07670305 0.88797875 2.1887243 ]

gradient= [-1.46877651e-05 -3.73468513e-06 1.84224502e-05] w = [-0.07670305 0.88797875 2.1887243 ] w\_new= [-0.07670319 0.88797871 2.18872448]

gradient= [-1.46672320e-05 -3.72979333e-06 1.83970254e-05] w = [-0.07670319 0.88797871 2.18872448] w\_new= [-0.07670334 0.88797867 2.18872467]

gradient= [-1.46467277e-05 -3.72490788e-06 1.83716356e-05] w = [-0.07670334 0.88797867 2.18872467] w\_new= [-0.07670349 0.88797864 2.18872485]

gradient= [-1.46262521e-05 -3.72002877e-06 1.83462809e-05] w = [-0.07670349 0.88797864 2.18872485] w\_new= [-0.07670363 0.8879786 2.18872504]

gradient= [-1.46058052e-05 -3.71515599e-06 1.83209611e-05] w = [-0.07670363 0.8879786 2.18872504] w\_new= [-0.07670378 0.88797856 2.18872522]

gradient= [-1.45853868e-05 -3.71028953e-06 1.82956763e-05] w = [-0.07670378 0.88797856 2.18872522] w\_new= [-0.07670393 0.88797852 2.1887254 ]

gradient= [-1.45649970e-05 -3.70542939e-06 1.82704264e-05] w = [-0.07670393 0.88797852 2.1887254 ] w\_new= [-0.07670407 0.88797849 2.18872558]

gradient= [-1.45446358e-05 -3.70057555e-06 1.82452113e-05] w = [-0.07670407 0.88797849 2.18872558] w\_new= [-0.07670422 0.88797845 2.18872577]

gradient= [-1.45243030e-05 -3.69572801e-06 1.82200310e-05] w = [-0.07670422 0.88797845 2.18872577] w\_new= [-0.07670436 0.88797841 2.18872595]

gradient= [-1.45039987e-05 -3.69088676e-06 1.81948855e-05] w = [-0.07670436 0.88797841 2.18872595] w\_new= [-0.07670451 0.88797838 2.18872613]

gradient= [-1.44837229e-05 -3.68605180e-06 1.81697747e-05] w = [-0.07670451 0.88797838 2.18872613] w\_new= [-0.07670465 0.88797834 2.18872631]

gradient= [-1.44634753e-05 -3.68122311e-06 1.81446985e-05] w = [-0.07670465 0.88797834 2.18872631] w\_new= [-0.0767048 0.8879783 2.18872649]

gradient= [-1.44432562e-05 -3.67640068e-06 1.81196569e-05] w = [-0.0767048 0.8879783 2.18872649] w\_new= [-0.07670494 0.88797827 2.18872668]

gradient= [-1.44230653e-05 -3.67158452e-06 1.80946498e-05] w = [-0.07670494 0.88797827 2.18872668] w\_new= [-0.07670509 0.88797823 2.18872686]

gradient= [-1.44029027e-05 -3.66677460e-06 1.80696773e-05] w = [-0.07670509 0.88797823 2.18872686] w\_new= [-0.07670523 0.88797819 2.18872704]

gradient= [-1.43827683e-05 -3.66197093e-06 1.80447392e-05] w = [-0.07670523 0.88797819 2.18872704] w\_new= [-0.07670537 0.88797816 2.18872722]

gradient= [-1.43626620e-05 -3.65717349e-06 1.80198355e-05] w = [-0.07670537 0.88797816 2.18872722] w\_new= [-0.07670552 0.88797812 2.1887274 ]

gradient= [-1.43425839e-05 -3.65238227e-06 1.79949662e-05] w = [-0.07670552 0.88797812 2.1887274 ] w\_new= [-0.07670566 0.88797808 2.18872758]

gradient= [-1.43225339e-05 -3.64759728e-06 1.79701312e-05] w = [-0.07670566 0.88797808 2.18872758] w\_new= [-0.0767058 0.88797805 2.18872776]

gradient= [-1.43025120e-05 -3.64281849e-06 1.79453305e-05] w = [-0.0767058 0.88797805 2.18872776] w\_new= [-0.07670595 0.88797801 2.18872794]

gradient= [-1.42825180e-05 -3.63804591e-06 1.79205640e-05] w = [-0.07670595 0.88797801 2.18872794] w\_new= [-0.07670609 0.88797797 2.18872812]

gradient= [-1.42625521e-05 -3.63327952e-06 1.78958316e-05] w = [-0.07670609 0.88797797 2.18872812] w\_new= [-0.07670623 0.88797794 2.1887283 ]

gradient= [-1.42426141e-05 -3.62851932e-06 1.78711334e-05] w = [-0.07670623 0.88797794 2.1887283 ] w\_new= [-0.07670637 0.8879779 2.18872847]

gradient= [-1.42227040e-05 -3.62376529e-06 1.78464693e-05] w = [-0.07670637 0.8879779 2.18872847] w\_new= [-0.07670652 0.88797786 2.18872865]

gradient= [-1.42028217e-05 -3.61901744e-06 1.78218392e-05] w = [-0.07670652 0.88797786 2.18872865] w\_new= [-0.07670666 0.88797783 2.18872883]

gradient= [-1.41829673e-05 -3.61427575e-06 1.77972431e-05] w = [-0.07670666 0.88797783 2.18872883] w\_new= [-0.0767068 0.88797779 2.18872901]

gradient= [-1.41631407e-05 -3.60954021e-06 1.77726809e-05] w = [-0.0767068 0.88797779 2.18872901] w\_new= [-0.07670694 0.88797776 2.18872919]

gradient= [-1.41433418e-05 -3.60481082e-06 1.77481526e-05] w = [-0.07670694 0.88797776 2.18872919] w\_new= [-0.07670708 0.88797772 2.18872936]

gradient= [-1.41235706e-05 -3.60008757e-06 1.77236582e-05] w = [-0.07670708 0.88797772 2.18872936] w\_new= [-0.07670722 0.88797768 2.18872954]

gradient= [-1.41038271e-05 -3.59537045e-06 1.76991975e-05] w = [-0.07670722 0.88797768 2.18872954] w\_new= [-0.07670737 0.88797765 2.18872972]

gradient= [-1.40841112e-05 -3.59065946e-06 1.76747706e-05] w = [-0.07670737 0.88797765 2.18872972] w\_new= [-0.07670751 0.88797761 2.18872989]

gradient= [-1.40644229e-05 -3.58595458e-06 1.76503774e-05] w = [-0.07670751 0.88797761 2.18872989] w\_new= [-0.07670765 0.88797758 2.18873007]

gradient= [-1.40447621e-05 -3.58125580e-06 1.76260179e-05] w = [-0.07670765 0.88797758 2.18873007] w\_new= [-0.07670779 0.88797754 2.18873025]

gradient= [-1.40251289e-05 -3.57656313e-06 1.76016920e-05] w = [-0.07670779 0.88797754 2.18873025] w\_new= [-0.07670793 0.8879775 2.18873042]

gradient= [-1.40055231e-05 -3.57187655e-06 1.75773996e-05] w = [-0.07670793 0.8879775 2.18873042] w\_new= [-0.07670807 0.88797747 2.1887306 ]

gradient= [-1.39859448e-05 -3.56719605e-06 1.75531408e-05] w = [-0.07670807 0.88797747 2.1887306 ] w\_new= [-0.07670821 0.88797743 2.18873077]

gradient= [-1.39663938e-05 -3.56252163e-06 1.75289154e-05] w = [-0.07670821 0.88797743 2.18873077] w\_new= [-0.07670835 0.8879774 2.18873095]

gradient= [-1.39468702e-05 -3.55785327e-06 1.75047235e-05] w = [-0.07670835 0.8879774 2.18873095] w\_new= [-0.07670849 0.88797736 2.18873113]

gradient= [-1.39273740e-05 -3.55319098e-06 1.74805650e-05] w = [-0.07670849 0.88797736 2.18873113] w\_new= [-0.07670863 0.88797733 2.1887313 ]

gradient= [-1.39079050e-05 -3.54853474e-06 1.74564397e-05] w = [-0.07670863 0.88797733 2.1887313 ] w\_new= [-0.07670877 0.88797729 2.18873147]

gradient= [-1.38884633e-05 -3.54388454e-06 1.74323478e-05] w = [-0.07670877 0.88797729 2.18873147] w\_new= [-0.0767089 0.88797726 2.18873165]

gradient= [-1.38690487e-05 -3.53924038e-06 1.74082891e-05] w = [-0.0767089 0.88797726 2.18873165] w\_new= [-0.07670904 0.88797722 2.18873182]

gradient= [-1.38496614e-05 -3.53460225e-06 1.73842636e-05] w = [-0.07670904 0.88797722 2.18873182] w\_new= [-0.07670918 0.88797718 2.188732 ]

gradient= [-1.38303011e-05 -3.52997015e-06 1.73602713e-05] w = [-0.07670918 0.88797718 2.188732 ] w\_new= [-0.07670932 0.88797715 2.18873217]

gradient= [-1.38109680e-05 -3.52534406e-06 1.73363121e-05] w = [-0.07670932 0.88797715 2.18873217] w\_new= [-0.07670946 0.88797711 2.18873234]

gradient= [-1.37916619e-05 -3.52072397e-06 1.73123859e-05] w = [-0.07670946 0.88797711 2.18873234] w\_new= [-0.0767096 0.88797708 2.18873252]

gradient= [-1.37723828e-05 -3.51610988e-06 1.72884927e-05] w = [-0.0767096 0.88797708 2.18873252] w\_new= [-0.07670973 0.88797704 2.18873269]

gradient= [-1.37531307e-05 -3.51150178e-06 1.72646325e-05] w = [-0.07670973 0.88797704 2.18873269] w\_new= [-0.07670987 0.88797701 2.18873286]

gradient= [-1.37339056e-05 -3.50689967e-06 1.72408052e-05] w = [-0.07670987 0.88797701 2.18873286] w\_new= [-0.07671001 0.88797697 2.18873303]

gradient= [-1.37147073e-05 -3.50230353e-06 1.72170109e-05] w = [-0.07671001 0.88797697 2.18873303] w\_new= [-0.07671015 0.88797694 2.18873321]

gradient= [-1.36955359e-05 -3.49771336e-06 1.71932493e-05] w = [-0.07671015 0.88797694 2.18873321] w\_new= [-0.07671028 0.8879769 2.18873338]

gradient= [-1.36763914e-05 -3.49312915e-06 1.71695205e-05] w = [-0.07671028 0.8879769 2.18873338] w\_new= [-0.07671042 0.88797687 2.18873355]

gradient= [-1.36572736e-05 -3.48855089e-06 1.71458245e-05] w = [-0.07671042 0.88797687 2.18873355] w\_new= [-0.07671056 0.88797683 2.18873372]

gradient= [-1.36381826e-05 -3.48397858e-06 1.71221611e-05] w = [-0.07671056 0.88797683 2.18873372] w\_new= [-0.07671069 0.8879768 2.18873389]

gradient= [-1.36191183e-05 -3.47941221e-06 1.70985305e-05] w = [-0.07671069 0.8879768 2.18873389] w\_new= [-0.07671083 0.88797676 2.18873406]

gradient= [-1.36000806e-05 -3.47485176e-06 1.70749324e-05] w = [-0.07671083 0.88797676 2.18873406] w\_new= [-0.07671096 0.88797673 2.18873423]

gradient= [-1.35810696e-05 -3.47029724e-06 1.70513669e-05] w = [-0.07671096 0.88797673 2.18873423] w\_new= [-0.0767111 0.88797669 2.18873441]

gradient= [-1.35620852e-05 -3.46574863e-06 1.70278339e-05] w = [-0.0767111 0.88797669 2.18873441] w\_new= [-0.07671124 0.88797666 2.18873458]

gradient= [-1.35431274e-05 -3.46120592e-06 1.70043333e-05] w = [-0.07671124 0.88797666 2.18873458] w\_new= [-0.07671137 0.88797663 2.18873475]

gradient= [-1.35241961e-05 -3.45666912e-06 1.69808652e-05] w = [-0.07671137 0.88797663 2.18873475] w\_new= [-0.07671151 0.88797659 2.18873492]

gradient= [-1.35052913e-05 -3.45213821e-06 1.69574295e-05] w = [-0.07671151 0.88797659 2.18873492] w\_new= [-0.07671164 0.88797656 2.18873509]

gradient= [-1.34864129e-05 -3.44761318e-06 1.69340261e-05] w = [-0.07671164 0.88797656 2.18873509] w\_new= [-0.07671178 0.88797652 2.18873525]

gradient= [-1.34675610e-05 -3.44309403e-06 1.69106550e-05] w = [-0.07671178 0.88797652 2.18873525] w\_new= [-0.07671191 0.88797649 2.18873542]

gradient= [-1.34487354e-05 -3.43858075e-06 1.68873162e-05] w = [-0.07671191 0.88797649 2.18873542] w\_new= [-0.07671205 0.88797645 2.18873559]

gradient= [-1.34299362e-05 -3.43407333e-06 1.68640095e-05] w = [-0.07671205 0.88797645 2.18873559] w\_new= [-0.07671218 0.88797642 2.18873576]

gradient= [-1.34111633e-05 -3.42957177e-06 1.68407351e-05] w = [-0.07671218 0.88797642 2.18873576] w\_new= [-0.07671231 0.88797638 2.18873593]

gradient= [-1.33924166e-05 -3.42507605e-06 1.68174927e-05] w = [-0.07671231 0.88797638 2.18873593] w\_new= [-0.07671245 0.88797635 2.1887361 ]

gradient= [-1.33736962e-05 -3.42058617e-06 1.67942824e-05] w = [-0.07671245 0.88797635 2.1887361 ] w\_new= [-0.07671258 0.88797632 2.18873627]

gradient= [-1.33550020e-05 -3.41610212e-06 1.67711041e-05] w = [-0.07671258 0.88797632 2.18873627] w\_new= [-0.07671271 0.88797628 2.18873643]

gradient= [-1.33363339e-05 -3.41162389e-06 1.67479578e-05] w = [-0.07671271 0.88797628 2.18873643] w\_new= [-0.07671285 0.88797625 2.1887366 ]

gradient= [-1.33176920e-05 -3.40715148e-06 1.67248435e-05] w = [-0.07671285 0.88797625 2.1887366 ] w\_new= [-0.07671298 0.88797621 2.18873677]

gradient= [-1.32990761e-05 -3.40268489e-06 1.67017610e-05] w = [-0.07671298 0.88797621 2.18873677] w\_new= [-0.07671311 0.88797618 2.18873694]

gradient= [-1.32804863e-05 -3.39822409e-06 1.66787104e-05] w = [-0.07671311 0.88797618 2.18873694] w\_new= [-0.07671325 0.88797615 2.1887371 ]

gradient= [-1.32619225e-05 -3.39376908e-06 1.66556916e-05] w = [-0.07671325 0.88797615 2.1887371 ] w\_new= [-0.07671338 0.88797611 2.18873727]

gradient= [-1.32433847e-05 -3.38931987e-06 1.66327046e-05] w = [-0.07671338 0.88797611 2.18873727] w\_new= [-0.07671351 0.88797608 2.18873743]

gradient= [-1.32248728e-05 -3.38487643e-06 1.66097493e-05] w = [-0.07671351 0.88797608 2.18873743] w\_new= [-0.07671364 0.88797604 2.1887376 ]

gradient= [-1.32063868e-05 -3.38043876e-06 1.65868256e-05] w = [-0.07671364 0.88797604 2.1887376 ] w\_new= [-0.07671378 0.88797601 2.18873777]

gradient= [-1.31879267e-05 -3.37600686e-06 1.65639336e-05] w = [-0.07671378 0.88797601 2.18873777] w\_new= [-0.07671391 0.88797598 2.18873793]

gradient= [-1.31694924e-05 -3.37158072e-06 1.65410732e-05] w = [-0.07671391 0.88797598 2.18873793] w\_new= [-0.07671404 0.88797594 2.1887381 ]

gradient= [-1.31510840e-05 -3.36716032e-06 1.65182443e-05] w = [-0.07671404 0.88797594 2.1887381 ] w\_new= [-0.07671417 0.88797591 2.18873826]

gradient= [-1.31327012e-05 -3.36274567e-06 1.64954469e-05] w = [-0.07671417 0.88797591 2.18873826] w\_new= [-0.0767143 0.88797588 2.18873843]

gradient= [-1.31143442e-05 -3.35833675e-06 1.64726810e-05] w = [-0.0767143 0.88797588 2.18873843] w\_new= [-0.07671443 0.88797584 2.18873859]

gradient= [-1.30960129e-05 -3.35393356e-06 1.64499464e-05] w = [-0.07671443 0.88797584 2.18873859] w\_new= [-0.07671457 0.88797581 2.18873876]

gradient= [-1.30777072e-05 -3.34953609e-06 1.64272433e-05] w = [-0.07671457 0.88797581 2.18873876] w\_new= [-0.0767147 0.88797577 2.18873892]

gradient= [-1.30594271e-05 -3.34514434e-06 1.64045715e-05] w = [-0.0767147 0.88797577 2.18873892] w\_new= [-0.07671483 0.88797574 2.18873909]

gradient= [-1.30411727e-05 -3.34075829e-06 1.63819309e-05] w = [-0.07671483 0.88797574 2.18873909] w\_new= [-0.07671496 0.88797571 2.18873925]

gradient= [-1.30229437e-05 -3.33637793e-06 1.63593217e-05] w = [-0.07671496 0.88797571 2.18873925] w\_new= [-0.07671509 0.88797567 2.18873941]

gradient= [-1.30047403e-05 -3.33200327e-06 1.63367436e-05] w = [-0.07671509 0.88797567 2.18873941] w\_new= [-0.07671522 0.88797564 2.18873958]

gradient= [-1.29865623e-05 -3.32763429e-06 1.63141966e-05] w = [-0.07671522 0.88797564 2.18873958] w\_new= [-0.07671535 0.88797561 2.18873974]

gradient= [-1.29684098e-05 -3.32327099e-06 1.62916808e-05] w = [-0.07671535 0.88797561 2.18873974] w\_new= [-0.07671548 0.88797557 2.1887399 ]

gradient= [-1.29502827e-05 -3.31891336e-06 1.62691960e-05] w = [-0.07671548 0.88797557 2.1887399 ] w\_new= [-0.07671561 0.88797554 2.18874007]

gradient= [-1.29321809e-05 -3.31456138e-06 1.62467423e-05] w = [-0.07671561 0.88797554 2.18874007] w\_new= [-0.07671574 0.88797551 2.18874023]

gradient= [-1.29141044e-05 -3.31021507e-06 1.62243195e-05] w = [-0.07671574 0.88797551 2.18874023] w\_new= [-0.07671586 0.88797548 2.18874039]

gradient= [-1.28960533e-05 -3.30587440e-06 1.62019277e-05] w = [-0.07671586 0.88797548 2.18874039] w\_new= [-0.07671599 0.88797544 2.18874055]

gradient= [-1.28780274e-05 -3.30153937e-06 1.61795668e-05] w = [-0.07671599 0.88797544 2.18874055] w\_new= [-0.07671612 0.88797541 2.18874071]

gradient= [-1.28600267e-05 -3.29720997e-06 1.61572367e-05] w = [-0.07671612 0.88797541 2.18874071] w\_new= [-0.07671625 0.88797538 2.18874088]

gradient= [-1.28420513e-05 -3.29288619e-06 1.61349375e-05] w = [-0.07671625 0.88797538 2.18874088] w\_new= [-0.07671638 0.88797534 2.18874104]

gradient= [-1.28241009e-05 -3.28856804e-06 1.61126690e-05] w = [-0.07671638 0.88797534 2.18874104] w\_new= [-0.07671651 0.88797531 2.1887412 ]

gradient= [-1.28061757e-05 -3.28425550e-06 1.60904312e-05] w = [-0.07671651 0.88797531 2.1887412 ] w\_new= [-0.07671664 0.88797528 2.18874136]

gradient= [-1.27882756e-05 -3.27994856e-06 1.60682241e-05] w = [-0.07671664 0.88797528 2.18874136] w\_new= [-0.07671676 0.88797524 2.18874152]

gradient= [-1.27704005e-05 -3.27564721e-06 1.60460477e-05] w = [-0.07671676 0.88797524 2.18874152] w\_new= [-0.07671689 0.88797521 2.18874168]

gradient= [-1.27525504e-05 -3.27135146e-06 1.60239019e-05] w = [-0.07671689 0.88797521 2.18874168] w\_new= [-0.07671702 0.88797518 2.18874184]

gradient= [-1.27347253e-05 -3.26706129e-06 1.60017866e-05] w = [-0.07671702 0.88797518 2.18874184] w\_new= [-0.07671715 0.88797515 2.188742 ]

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gradient= [-1.26991499e-05 -3.25849766e-06 1.59576476e-05] w = [-0.07671727 0.88797511 2.18874216] w\_new= [-0.0767174 0.88797508 2.18874232]

gradient= [-1.26813995e-05 -3.25422419e-06 1.59356237e-05] w = [-0.0767174 0.88797508 2.18874232] w\_new= [-0.07671753 0.88797505 2.18874248]

gradient= [-1.26636740e-05 -3.24995628e-06 1.59136302e-05] w = [-0.07671753 0.88797505 2.18874248] w\_new= [-0.07671765 0.88797502 2.18874264]

gradient= [-1.26459732e-05 -3.24569391e-06 1.58916671e-05] w = [-0.07671765 0.88797502 2.18874264] w\_new= [-0.07671778 0.88797498 2.1887428 ]

gradient= [-1.26282972e-05 -3.24143708e-06 1.58697343e-05] w = [-0.07671778 0.88797498 2.1887428 ] w\_new= [-0.07671791 0.88797495 2.18874296]

gradient= [-1.26106460e-05 -3.23718579e-06 1.58478318e-05] w = [-0.07671791 0.88797495 2.18874296] w\_new= [-0.07671803 0.88797492 2.18874311]

gradient= [-1.25930194e-05 -3.23294001e-06 1.58259594e-05] w = [-0.07671803 0.88797492 2.18874311] w\_new= [-0.07671816 0.88797489 2.18874327]

gradient= [-1.25754175e-05 -3.22869976e-06 1.58041173e-05] w = [-0.07671816 0.88797489 2.18874327] w\_new= [-0.07671828 0.88797485 2.18874343]

gradient= [-1.25578403e-05 -3.22446502e-06 1.57823053e-05] w = [-0.07671828 0.88797485 2.18874343] w\_new= [-0.07671841 0.88797482 2.18874359]

gradient= [-1.25402876e-05 -3.22023578e-06 1.57605234e-05] w = [-0.07671841 0.88797482 2.18874359] w\_new= [-0.07671854 0.88797479 2.18874375]

gradient= [-1.25227595e-05 -3.21601204e-06 1.57387715e-05] w = [-0.07671854 0.88797479 2.18874375] w\_new= [-0.07671866 0.88797476 2.1887439 ]

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gradient= [-1.24877768e-05 -3.20758101e-06 1.56953578e-05] w = [-0.07671879 0.88797473 2.18874406] w\_new= [-0.07671891 0.88797469 2.18874422]

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gradient= [-1.24528920e-05 -3.19917189e-06 1.56520639e-05] w = [-0.07671904 0.88797466 2.18874437] w\_new= [-0.07671916 0.88797463 2.18874453]

gradient= [-1.24354861e-05 -3.19497553e-06 1.56304617e-05] w = [-0.07671916 0.88797463 2.18874453] w\_new= [-0.07671928 0.8879746 2.18874469]

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gradient= [-1.24007475e-05 -3.18659915e-06 1.55873466e-05] w = [-0.07671941 0.88797457 2.18874484] w\_new= [-0.07671953 0.88797453 2.188745 ]

gradient= [-1.23834146e-05 -3.18241913e-06 1.55658338e-05] w = [-0.07671953 0.88797453 2.188745 ] w\_new= [-0.07671966 0.8879745 2.18874515]

gradient= [-1.23661060e-05 -3.17824454e-06 1.55443505e-05] w = [-0.07671966 0.8879745 2.18874515] w\_new= [-0.07671978 0.88797447 2.18874531]

gradient= [-1.23488216e-05 -3.17407538e-06 1.55228970e-05] w = [-0.07671978 0.88797447 2.18874531] w\_new= [-0.0767199 0.88797444 2.18874546]

gradient= [-1.23315614e-05 -3.16991164e-06 1.55014730e-05] w = [-0.0767199 0.88797444 2.18874546] w\_new= [-0.07672003 0.88797441 2.18874562]

gradient= [-1.23143253e-05 -3.16575331e-06 1.54800786e-05] w = [-0.07672003 0.88797441 2.18874562] w\_new= [-0.07672015 0.88797438 2.18874577]

gradient= [-1.22971133e-05 -3.16160038e-06 1.54587137e-05] w = [-0.07672015 0.88797438 2.18874577] w\_new= [-0.07672027 0.88797434 2.18874593]

gradient= [-1.22799255e-05 -3.15745286e-06 1.54373783e-05] w = [-0.07672027 0.88797434 2.18874593] w\_new= [-0.0767204 0.88797431 2.18874608]

gradient= [-1.22627616e-05 -3.15331072e-06 1.54160724e-05] w = [-0.0767204 0.88797431 2.18874608] w\_new= [-0.07672052 0.88797428 2.18874624]

gradient= [-1.22456218e-05 -3.14917397e-06 1.53947958e-05] w = [-0.07672052 0.88797428 2.18874624] w\_new= [-0.07672064 0.88797425 2.18874639]

gradient= [-1.22285060e-05 -3.14504260e-06 1.53735486e-05] w = [-0.07672064 0.88797425 2.18874639] w\_new= [-0.07672076 0.88797422 2.18874655]

gradient= [-1.22114141e-05 -3.14091660e-06 1.53523307e-05] w = [-0.07672076 0.88797422 2.18874655] w\_new= [-0.07672089 0.88797419 2.1887467 ]

gradient= [-1.21943461e-05 -3.13679596e-06 1.53311421e-05] w = [-0.07672089 0.88797419 2.1887467 ] w\_new= [-0.07672101 0.88797415 2.18874685]

gradient= [-1.21773020e-05 -3.13268068e-06 1.53099827e-05] w = [-0.07672101 0.88797415 2.18874685] w\_new= [-0.07672113 0.88797412 2.18874701]

gradient= [-1.21602818e-05 -3.12857076e-06 1.52888526e-05] w = [-0.07672113 0.88797412 2.18874701] w\_new= [-0.07672125 0.88797409 2.18874716]

gradient= [-1.21432854e-05 -3.12446617e-06 1.52677515e-05] w = [-0.07672125 0.88797409 2.18874716] w\_new= [-0.07672137 0.88797406 2.18874731]

gradient= [-1.21263127e-05 -3.12036692e-06 1.52466796e-05] w = [-0.07672137 0.88797406 2.18874731] w\_new= [-0.07672149 0.88797403 2.18874746]

gradient= [-1.21093638e-05 -3.11627300e-06 1.52256368e-05] w = [-0.07672149 0.88797403 2.18874746] w\_new= [-0.07672161 0.887974 2.18874762]

gradient= [-1.20924386e-05 -3.11218440e-06 1.52046230e-05] w = [-0.07672161 0.887974 2.18874762] w\_new= [-0.07672174 0.88797397 2.18874777]

gradient= [-1.20755371e-05 -3.10810112e-06 1.51836382e-05] w = [-0.07672174 0.88797397 2.18874777] w\_new= [-0.07672186 0.88797394 2.18874792]

gradient= [-1.20586592e-05 -3.10402315e-06 1.51626824e-05] w = [-0.07672186 0.88797394 2.18874792] w\_new= [-0.07672198 0.88797391 2.18874807]

gradient= [-1.20418050e-05 -3.09995048e-06 1.51417555e-05] w = [-0.07672198 0.88797391 2.18874807] w\_new= [-0.0767221 0.88797387 2.18874822]

gradient= [-1.20249743e-05 -3.09588311e-06 1.51208574e-05] w = [-0.0767221 0.88797387 2.18874822] w\_new= [-0.07672222 0.88797384 2.18874837]

gradient= [-1.20081672e-05 -3.09182102e-06 1.50999882e-05] w = [-0.07672222 0.88797384 2.18874837] w\_new= [-0.07672234 0.88797381 2.18874852]

gradient= [-1.19913836e-05 -3.08776422e-06 1.50791478e-05] w = [-0.07672234 0.88797381 2.18874852] w\_new= [-0.07672246 0.88797378 2.18874868]

gradient= [-1.19746235e-05 -3.08371269e-06 1.50583361e-05] w = [-0.07672246 0.88797378 2.18874868] w\_new= [-0.07672258 0.88797375 2.18874883]

gradient= [-1.19578868e-05 -3.07966643e-06 1.50375532e-05] w = [-0.07672258 0.88797375 2.18874883] w\_new= [-0.0767227 0.88797372 2.18874898]

gradient= [-1.19411735e-05 -3.07562543e-06 1.50167989e-05] w = [-0.0767227 0.88797372 2.18874898] w\_new= [-0.07672282 0.88797369 2.18874913]

gradient= [-1.19244836e-05 -3.07158968e-06 1.49960733e-05] w = [-0.07672282 0.88797369 2.18874913] w\_new= [-0.07672294 0.88797366 2.18874928]

gradient= [-1.19078171e-05 -3.06755919e-06 1.49753763e-05] w = [-0.07672294 0.88797366 2.18874928] w\_new= [-0.07672305 0.88797363 2.18874943]

gradient= [-1.18911739e-05 -3.06353393e-06 1.49547078e-05] w = [-0.07672305 0.88797363 2.18874943] w\_new= [-0.07672317 0.8879736 2.18874958]

gradient= [-1.18745540e-05 -3.05951391e-06 1.49340679e-05] w = [-0.07672317 0.8879736 2.18874958] w\_new= [-0.07672329 0.88797357 2.18874973]

gradient= [-1.18579573e-05 -3.05549912e-06 1.49134564e-05] w = [-0.07672329 0.88797357 2.18874973] w\_new= [-0.07672341 0.88797354 2.18874987]

gradient= [-1.18413838e-05 -3.05148955e-06 1.48928734e-05] w = [-0.07672341 0.88797354 2.18874987] w\_new= [-0.07672353 0.88797351 2.18875002]

gradient= [-1.18248336e-05 -3.04748519e-06 1.48723188e-05] w = [-0.07672353 0.88797351 2.18875002] w\_new= [-0.07672365 0.88797347 2.18875017]

gradient= [-1.18083065e-05 -3.04348604e-06 1.48517925e-05] w = [-0.07672365 0.88797347 2.18875017] w\_new= [-0.07672377 0.88797344 2.18875032]

gradient= [-1.17918025e-05 -3.03949209e-06 1.48312946e-05] w = [-0.07672377 0.88797344 2.18875032] w\_new= [-0.07672388 0.88797341 2.18875047]

gradient= [-1.17753216e-05 -3.03550334e-06 1.48108249e-05] w = [-0.07672388 0.88797341 2.18875047] w\_new= [-0.076724 0.88797338 2.18875062]

gradient= [-1.17588637e-05 -3.03151977e-06 1.47903835e-05] w = [-0.076724 0.88797338 2.18875062] w\_new= [-0.07672412 0.88797335 2.18875077]

gradient= [-1.17424289e-05 -3.02754138e-06 1.47699703e-05] w = [-0.07672412 0.88797335 2.18875077] w\_new= [-0.07672424 0.88797332 2.18875091]

gradient= [-1.17260171e-05 -3.02356817e-06 1.47495853e-05] w = [-0.07672424 0.88797332 2.18875091] w\_new= [-0.07672435 0.88797329 2.18875106]

gradient= [-1.17096282e-05 -3.01960013e-06 1.47292284e-05] w = [-0.07672435 0.88797329 2.18875106] w\_new= [-0.07672447 0.88797326 2.18875121]

gradient= [-1.16932623e-05 -3.01563724e-06 1.47088995e-05] w = [-0.07672447 0.88797326 2.18875121] w\_new= [-0.07672459 0.88797323 2.18875135]

gradient= [-1.16769193e-05 -3.01167952e-06 1.46885988e-05] w = [-0.07672459 0.88797323 2.18875135] w\_new= [-0.0767247 0.8879732 2.1887515]

gradient= [-1.16605991e-05 -3.00772693e-06 1.46683260e-05] w = [-0.0767247 0.8879732 2.1887515] w\_new= [-0.07672482 0.88797317 2.18875165]

gradient= [-1.16443017e-05 -3.00377949e-06 1.46480812e-05] w = [-0.07672482 0.88797317 2.18875165] w\_new= [-0.07672494 0.88797314 2.18875179]

gradient= [-1.16280272e-05 -2.99983719e-06 1.46278644e-05] w = [-0.07672494 0.88797314 2.18875179] w\_new= [-0.07672505 0.88797311 2.18875194]

gradient= [-1.16117754e-05 -2.99590001e-06 1.46076755e-05] w = [-0.07672505 0.88797311 2.18875194] w\_new= [-0.07672517 0.88797308 2.18875209]

gradient= [-1.15955464e-05 -2.99196795e-06 1.45875144e-05] w = [-0.07672517 0.88797308 2.18875209] w\_new= [-0.07672529 0.88797305 2.18875223]

gradient= [-1.15793401e-05 -2.98804101e-06 1.45673811e-05] w = [-0.07672529 0.88797305 2.18875223] w\_new= [-0.0767254 0.88797302 2.18875238]

gradient= [-1.15631564e-05 -2.98411918e-06 1.45472756e-05] w = [-0.0767254 0.88797302 2.18875238] w\_new= [-0.07672552 0.88797299 2.18875252]

gradient= [-1.15469954e-05 -2.98020244e-06 1.45271979e-05] w = [-0.07672552 0.88797299 2.18875252] w\_new= [-0.07672563 0.88797296 2.18875267]

gradient= [-1.15308570e-05 -2.97629081e-06 1.45071478e-05] w = [-0.07672563 0.88797296 2.18875267] w\_new= [-0.07672575 0.88797293 2.18875281]

gradient= [-1.15147412e-05 -2.97238426e-06 1.44871254e-05] w = [-0.07672575 0.88797293 2.18875281] w\_new= [-0.07672586 0.8879729 2.18875296]

gradient= [-1.14986479e-05 -2.96848279e-06 1.44671307e-05] w = [-0.07672586 0.8879729 2.18875296] w\_new= [-0.07672598 0.88797287 2.1887531 ]

gradient= [-1.14825771e-05 -2.96458640e-06 1.44471635e-05] w = [-0.07672598 0.88797287 2.1887531 ] w\_new= [-0.07672609 0.88797284 2.18875325]

gradient= [-1.14665289e-05 -2.96069507e-06 1.44272239e-05] w = [-0.07672609 0.88797284 2.18875325] w\_new= [-0.07672621 0.88797281 2.18875339]

gradient= [-1.14505030e-05 -2.95680881e-06 1.44073118e-05] w = [-0.07672621 0.88797281 2.18875339] w\_new= [-0.07672632 0.88797278 2.18875354]

gradient= [-1.14344996e-05 -2.95292761e-06 1.43874272e-05] w = [-0.07672632 0.88797278 2.18875354] w\_new= [-0.07672644 0.88797276 2.18875368]

gradient= [-1.14185186e-05 -2.94905145e-06 1.43675700e-05] w = [-0.07672644 0.88797276 2.18875368] w\_new= [-0.07672655 0.88797273 2.18875382]

gradient= [-1.14025599e-05 -2.94518034e-06 1.43477403e-05] w = [-0.07672655 0.88797273 2.18875382] w\_new= [-0.07672666 0.8879727 2.18875397]

gradient= [-1.13866236e-05 -2.94131426e-06 1.43279379e-05] w = [-0.07672666 0.8879727 2.18875397] w\_new= [-0.07672678 0.88797267 2.18875411]

gradient= [-1.13707096e-05 -2.93745321e-06 1.43081628e-05] w = [-0.07672678 0.88797267 2.18875411] w\_new= [-0.07672689 0.88797264 2.18875425]

gradient= [-1.13548178e-05 -2.93359719e-06 1.42884150e-05] w = [-0.07672689 0.88797264 2.18875425] w\_new= [-0.07672701 0.88797261 2.1887544 ]

gradient= [-1.13389482e-05 -2.92974618e-06 1.42686944e-05] w = [-0.07672701 0.88797261 2.1887544 ] w\_new= [-0.07672712 0.88797258 2.18875454]

gradient= [-1.13231009e-05 -2.92590018e-06 1.42490011e-05] w = [-0.07672712 0.88797258 2.18875454] w\_new= [-0.07672723 0.88797255 2.18875468]

gradient= [-1.13072757e-05 -2.92205919e-06 1.42293349e-05] w = [-0.07672723 0.88797255 2.18875468] w\_new= [-0.07672734 0.88797252 2.18875482]

gradient= [-1.12914727e-05 -2.91822319e-06 1.42096959e-05] w = [-0.07672734 0.88797252 2.18875482] w\_new= [-0.07672746 0.88797249 2.18875497]

gradient= [-1.12756918e-05 -2.91439219e-06 1.41900839e-05] w = [-0.07672746 0.88797249 2.18875497] w\_new= [-0.07672757 0.88797246 2.18875511]

gradient= [-1.12599329e-05 -2.91056617e-06 1.41704991e-05] w = [-0.07672757 0.88797246 2.18875511] w\_new= [-0.07672768 0.88797243 2.18875525]

gradient= [-1.12441961e-05 -2.90674513e-06 1.41509412e-05] w = [-0.07672768 0.88797243 2.18875525] w\_new= [-0.0767278 0.8879724 2.18875539]

gradient= [-1.12284813e-05 -2.90292906e-06 1.41314104e-05] w = [-0.0767278 0.8879724 2.18875539] w\_new= [-0.07672791 0.88797237 2.18875553]

gradient= [-1.12127885e-05 -2.89911795e-06 1.41119065e-05] w = [-0.07672791 0.88797237 2.18875553] w\_new= [-0.07672802 0.88797235 2.18875567]

gradient= [-1.11971177e-05 -2.89531181e-06 1.40924295e-05] w = [-0.07672802 0.88797235 2.18875567] w\_new= [-0.07672813 0.88797232 2.18875582]

gradient= [-1.11814687e-05 -2.89151062e-06 1.40729794e-05] w = [-0.07672813 0.88797232 2.18875582] w\_new= [-0.07672824 0.88797229 2.18875596]

gradient= [-1.11658417e-05 -2.88771437e-06 1.40535561e-05] w = [-0.07672824 0.88797229 2.18875596] w\_new= [-0.07672836 0.88797226 2.1887561 ]

gradient= [-1.11502365e-05 -2.88392306e-06 1.40341596e-05] w = [-0.07672836 0.88797226 2.1887561 ] w\_new= [-0.07672847 0.88797223 2.18875624]

gradient= [-1.11346532e-05 -2.88013669e-06 1.40147899e-05] w = [-0.07672847 0.88797223 2.18875624] w\_new= [-0.07672858 0.8879722 2.18875638]

gradient= [-1.11190917e-05 -2.87635524e-06 1.39954469e-05] w = [-0.07672858 0.8879722 2.18875638] w\_new= [-0.07672869 0.88797217 2.18875652]

gradient= [-1.11035519e-05 -2.87257872e-06 1.39761306e-05] w = [-0.07672869 0.88797217 2.18875652] w\_new= [-0.0767288 0.88797214 2.18875666]

gradient= [-1.10880339e-05 -2.86880711e-06 1.39568410e-05] w = [-0.0767288 0.88797214 2.18875666] w\_new= [-0.07672891 0.88797212 2.1887568 ]

gradient= [-1.10725375e-05 -2.86504040e-06 1.39375780e-05] w = [-0.07672891 0.88797212 2.1887568 ] w\_new= [-0.07672902 0.88797209 2.18875694]

gradient= [-1.10570629e-05 -2.86127860e-06 1.39183415e-05] w = [-0.07672902 0.88797209 2.18875694] w\_new= [-0.07672913 0.88797206 2.18875707]

gradient= [-1.10416099e-05 -2.85752170e-06 1.38991316e-05] w = [-0.07672913 0.88797206 2.18875707] w\_new= [-0.07672924 0.88797203 2.18875721]

gradient= [-1.10261785e-05 -2.85376968e-06 1.38799482e-05] w = [-0.07672924 0.88797203 2.18875721] w\_new= [-0.07672935 0.887972 2.18875735]

gradient= [-1.10107688e-05 -2.85002255e-06 1.38607913e-05] w = [-0.07672935 0.887972 2.18875735] w\_new= [-0.07672946 0.88797197 2.18875749]

gradient= [-1.09953805e-05 -2.84628030e-06 1.38416608e-05] w = [-0.07672946 0.88797197 2.18875749] w\_new= [-0.07672957 0.88797194 2.18875763]

gradient= [-1.09800138e-05 -2.84254291e-06 1.38225567e-05] w = [-0.07672957 0.88797194 2.18875763] w\_new= [-0.07672968 0.88797192 2.18875777]

gradient= [-1.09646686e-05 -2.83881039e-06 1.38034790e-05] w = [-0.07672968 0.88797192 2.18875777] w\_new= [-0.07672979 0.88797189 2.18875791]

gradient= [-1.09493449e-05 -2.83508272e-06 1.37844276e-05] w = [-0.07672979 0.88797189 2.18875791] w\_new= [-0.0767299 0.88797186 2.18875804]

gradient= [-1.09340426e-05 -2.83135991e-06 1.37654025e-05] w = [-0.0767299 0.88797186 2.18875804] w\_new= [-0.07673001 0.88797183 2.18875818]

gradient= [-1.09187617e-05 -2.82764195e-06 1.37464036e-05] w = [-0.07673001 0.88797183 2.18875818] w\_new= [-0.07673012 0.8879718 2.18875832]

gradient= [-1.09035022e-05 -2.82392882e-06 1.37274310e-05] w = [-0.07673012 0.8879718 2.18875832] w\_new= [-0.07673023 0.88797177 2.18875846]

gradient= [-1.08882640e-05 -2.82022052e-06 1.37084845e-05] w = [-0.07673023 0.88797177 2.18875846] w\_new= [-0.07673034 0.88797175 2.18875859]

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gradient= [-1.08578516e-05 -2.81281841e-06 1.36706700e-05] w = [-0.07673045 0.88797172 2.18875873] w\_new= [-0.07673056 0.88797169 2.18875887]

gradient= [-1.08426773e-05 -2.80912458e-06 1.36518019e-05] w = [-0.07673056 0.88797169 2.18875887] w\_new= [-0.07673066 0.88797166 2.188759 ]

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gradient= [-1.07972816e-05 -2.79807190e-06 1.35953535e-05] w = [-0.07673088 0.88797161 2.18875928] w\_new= [-0.07673099 0.88797158 2.18875941]

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gradient= [-1.07520762e-05 -2.78706233e-06 1.35391385e-05] w = [-0.0767312 0.88797152 2.18875968] w\_new= [-0.07673131 0.88797149 2.18875982]

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gradient= [-1.06920968e-05 -2.77244967e-06 1.34645465e-05] w = [-0.07673163 0.88797141 2.18876022] w\_new= [-0.07673174 0.88797138 2.18876036]

gradient= [-1.06771544e-05 -2.76880839e-06 1.34459628e-05] w = [-0.07673174 0.88797138 2.18876036] w\_new= [-0.07673185 0.88797135 2.18876049]

gradient= [-1.06622329e-05 -2.76517185e-06 1.34274047e-05] w = [-0.07673185 0.88797135 2.18876049] w\_new= [-0.07673195 0.88797133 2.18876063]

gradient= [-1.06473322e-05 -2.76154004e-06 1.34088723e-05] w = [-0.07673195 0.88797133 2.18876063] w\_new= [-0.07673206 0.8879713 2.18876076]

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gradient= [-1.06175934e-05 -2.75429060e-06 1.33718840e-05] w = [-0.07673217 0.88797127 2.18876089] w\_new= [-0.07673227 0.88797124 2.18876103]

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gradient= [-1.05731410e-05 -2.74345180e-06 1.33165928e-05] w = [-0.07673248 0.88797119 2.1887613 ] w\_new= [-0.07673259 0.88797116 2.18876143]

gradient= [-1.05583650e-05 -2.73984827e-06 1.32982133e-05] w = [-0.07673259 0.88797116 2.18876143] w\_new= [-0.0767327 0.88797113 2.18876156]

gradient= [-1.05436097e-05 -2.73624943e-06 1.32798591e-05] w = [-0.0767327 0.88797113 2.18876156] w\_new= [-0.0767328 0.88797111 2.18876169]

gradient= [-1.05288750e-05 -2.73265528e-06 1.32615302e-05] w = [-0.0767328 0.88797111 2.18876169] w\_new= [-0.07673291 0.88797108 2.18876183]

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gradient= [-1.04847944e-05 -2.72190087e-06 1.32066953e-05] w = [-0.07673312 0.88797103 2.18876209] w\_new= [-0.07673322 0.887971 2.18876222]

gradient= [-1.04701419e-05 -2.71832540e-06 1.31884673e-05] w = [-0.07673322 0.887971 2.18876222] w\_new= [-0.07673333 0.88797097 2.18876236]

gradient= [-1.04555100e-05 -2.71475459e-06 1.31702646e-05] w = [-0.07673333 0.88797097 2.18876236] w\_new= [-0.07673343 0.88797094 2.18876249]

gradient= [-1.04408985e-05 -2.71118842e-06 1.31520870e-05] w = [-0.07673343 0.88797094 2.18876249] w\_new= [-0.07673354 0.88797092 2.18876262]

gradient= [-1.04263075e-05 -2.70762690e-06 1.31339344e-05] w = [-0.07673354 0.88797092 2.18876262] w\_new= [-0.07673364 0.88797089 2.18876275]

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gradient= [-1.03681472e-05 -2.69342713e-06 1.30615743e-05] w = [-0.07673395 0.88797081 2.18876314] w\_new= [-0.07673406 0.88797078 2.18876327]

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gradient= [-1.03247402e-05 -2.68282578e-06 1.30075660e-05] w = [-0.07673426 0.88797073 2.18876353] w\_new= [-0.07673437 0.8879707 2.18876366]

gradient= [-1.03103116e-05 -2.67930119e-06 1.29896128e-05] w = [-0.07673437 0.8879707 2.18876366] w\_new= [-0.07673447 0.88797067 2.18876379]

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gradient= [-1.02815151e-05 -2.67226578e-06 1.29537809e-05] w = [-0.07673457 0.88797065 2.18876392] w\_new= [-0.07673467 0.88797062 2.18876405]

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gradient= [-1.02527990e-05 -2.66524869e-06 1.29180477e-05] w = [-0.07673478 0.88797059 2.18876418] w\_new= [-0.07673488 0.88797057 2.18876431]

gradient= [-1.02384711e-05 -2.66174699e-06 1.29002181e-05] w = [-0.07673488 0.88797057 2.18876431] w\_new= [-0.07673498 0.88797054 2.18876444]

gradient= [-1.02241632e-05 -2.65824986e-06 1.28824131e-05] w = [-0.07673498 0.88797054 2.18876444] w\_new= [-0.07673508 0.88797051 2.18876457]

gradient= [-1.02098754e-05 -2.65475728e-06 1.28646327e-05] w = [-0.07673508 0.88797051 2.18876457] w\_new= [-0.07673519 0.88797049 2.1887647 ]

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gradient= [-1.01671316e-05 -2.64430681e-06 1.28114385e-05] w = [-0.07673539 0.88797043 2.18876496] w\_new= [-0.07673549 0.88797041 2.18876508]

gradient= [-1.01529236e-05 -2.64083239e-06 1.27937560e-05] w = [-0.07673549 0.88797041 2.18876508] w\_new= [-0.07673559 0.88797038 2.18876521]

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gradient= [-1.01245670e-05 -2.63389712e-06 1.27584641e-05] w = [-0.07673569 0.88797036 2.18876534] w\_new= [-0.0767358 0.88797033 2.18876547]

gradient= [-1.01104185e-05 -2.63043626e-06 1.27408547e-05] w = [-0.0767358 0.88797033 2.18876547] w\_new= [-0.0767359 0.8879703 2.18876559]

gradient= [-1.00962897e-05 -2.62697991e-06 1.27232697e-05] w = [-0.0767359 0.8879703 2.18876559] w\_new= [-0.076736 0.88797028 2.18876572]

gradient= [-1.00821808e-05 -2.62352806e-06 1.27057088e-05] w = [-0.076736 0.88797028 2.18876572] w\_new= [-0.0767361 0.88797025 2.18876585]

gradient= [-1.00680915e-05 -2.62008071e-06 1.26881722e-05] w = [-0.0767361 0.88797025 2.18876585] w\_new= [-0.0767362 0.88797022 2.18876598]

gradient= [-1.00540220e-05 -2.61663785e-06 1.26706598e-05] w = [-0.0767362 0.88797022 2.18876598] w\_new= [-0.0767363 0.8879702 2.1887661]

gradient= [-1.00399721e-05 -2.61319947e-06 1.26531716e-05] w = [-0.0767363 0.8879702 2.1887661] w\_new= [-0.0767364 0.88797017 2.18876623]

gradient= [-1.00259419e-05 -2.60976557e-06 1.26357075e-05] w = [-0.0767364 0.88797017 2.18876623] w\_new= [-0.0767365 0.88797015 2.18876635]

gradient= [-1.00119314e-05 -2.60633614e-06 1.26182675e-05] w = [-0.0767365 0.88797015 2.18876635] w\_new= [-0.0767366 0.88797012 2.18876648]

gradient= [-9.99794038e-06 -2.60291119e-06 1.26008516e-05] w = [-0.0767366 0.88797012 2.18876648] w\_new= [-0.0767367 0.88797009 2.18876661]

gradient= [-9.98396897e-06 -2.59949069e-06 1.25834597e-05] w = [-0.0767367 0.88797009 2.18876661] w\_new= [-0.0767368 0.88797007 2.18876673]

gradient= [-9.97001711e-06 -2.59607465e-06 1.25660918e-05] w = [-0.0767368 0.88797007 2.18876673] w\_new= [-0.0767369 0.88797004 2.18876686]

gradient= [-9.95608476e-06 -2.59266306e-06 1.25487478e-05] w = [-0.0767369 0.88797004 2.18876686] w\_new= [-0.076737 0.88797002 2.18876698]

gradient= [-9.94217190e-06 -2.58925591e-06 1.25314278e-05] w = [-0.076737 0.88797002 2.18876698] w\_new= [-0.0767371 0.88796999 2.18876711]

gradient= [-9.92827850e-06 -2.58585321e-06 1.25141317e-05] w = [-0.0767371 0.88796999 2.18876711] w\_new= [-0.0767372 0.88796996 2.18876723]

gradient= [-9.91440454e-06 -2.58245493e-06 1.24968595e-05] w = [-0.0767372 0.88796996 2.18876723] w\_new= [-0.0767373 0.88796994 2.18876736]

gradient= [-9.90054998e-06 -2.57906109e-06 1.24796111e-05] w = [-0.0767373 0.88796994 2.18876736] w\_new= [-0.0767374 0.88796991 2.18876748]

gradient= [-9.88671480e-06 -2.57567166e-06 1.24623865e-05] w = [-0.0767374 0.88796991 2.18876748] w\_new= [-0.0767375 0.88796989 2.18876761]

gradient= [-9.87289898e-06 -2.57228665e-06 1.24451856e-05] w = [-0.0767375 0.88796989 2.18876761] w\_new= [-0.07673759 0.88796986 2.18876773]

gradient= [-9.85910248e-06 -2.56890606e-06 1.24280085e-05] w = [-0.07673759 0.88796986 2.18876773] w\_new= [-0.07673769 0.88796984 2.18876786]

gradient= [-9.84532528e-06 -2.56552986e-06 1.24108551e-05] w = [-0.07673769 0.88796984 2.18876786] w\_new= [-0.07673779 0.88796981 2.18876798]

gradient= [-9.83156735e-06 -2.56215807e-06 1.23937254e-05] w = [-0.07673779 0.88796981 2.18876798] w\_new= [-0.07673789 0.88796978 2.18876811]

gradient= [-9.81782866e-06 -2.55879067e-06 1.23766193e-05] w = [-0.07673789 0.88796978 2.18876811] w\_new= [-0.07673799 0.88796976 2.18876823]

gradient= [-9.80410919e-06 -2.55542765e-06 1.23595368e-05] w = [-0.07673799 0.88796976 2.18876823] w\_new= [-0.07673809 0.88796973 2.18876835]

gradient= [-9.79040891e-06 -2.55206902e-06 1.23424779e-05] w = [-0.07673809 0.88796973 2.18876835] w\_new= [-0.07673818 0.88796971 2.18876848]

gradient= [-9.77672780e-06 -2.54871476e-06 1.23254426e-05] w = [-0.07673818 0.88796971 2.18876848] w\_new= [-0.07673828 0.88796968 2.1887686 ]

gradient= [-9.76306582e-06 -2.54536488e-06 1.23084307e-05] w = [-0.07673828 0.88796968 2.1887686 ] w\_new= [-0.07673838 0.88796966 2.18876872]

gradient= [-9.74942295e-06 -2.54201936e-06 1.22914423e-05] w = [-0.07673838 0.88796966 2.18876872] w\_new= [-0.07673848 0.88796963 2.18876885]

gradient= [-9.73579916e-06 -2.53867820e-06 1.22744774e-05] w = [-0.07673848 0.88796963 2.18876885] w\_new= [-0.07673857 0.88796961 2.18876897]

gradient= [-9.72219444e-06 -2.53534139e-06 1.22575358e-05] w = [-0.07673857 0.88796961 2.18876897] w\_new= [-0.07673867 0.88796958 2.18876909]

gradient= [-9.70860874e-06 -2.53200893e-06 1.22406177e-05] w = [-0.07673867 0.88796958 2.18876909] w\_new= [-0.07673877 0.88796955 2.18876921]

gradient= [-9.69504204e-06 -2.52868081e-06 1.22237229e-05] w = [-0.07673877 0.88796955 2.18876921] w\_new= [-0.07673887 0.88796953 2.18876934]

gradient= [-9.68149432e-06 -2.52535703e-06 1.22068514e-05] w = [-0.07673887 0.88796953 2.18876934] w\_new= [-0.07673896 0.8879695 2.18876946]

gradient= [-9.66796555e-06 -2.52203759e-06 1.21900031e-05] w = [-0.07673896 0.8879695 2.18876946] w\_new= [-0.07673906 0.88796948 2.18876958]

gradient= [-9.65445571e-06 -2.51872246e-06 1.21731782e-05] w = [-0.07673906 0.88796948 2.18876958] w\_new= [-0.07673916 0.88796945 2.1887697 ]

gradient= [-9.64096476e-06 -2.51541166e-06 1.21563764e-05] w = [-0.07673916 0.88796945 2.1887697 ] w\_new= [-0.07673925 0.88796943 2.18876982]

gradient= [-9.62749268e-06 -2.51210517e-06 1.21395979e-05] w = [-0.07673925 0.88796943 2.18876982] w\_new= [-0.07673935 0.8879694 2.18876994]

gradient= [-9.61403944e-06 -2.50880299e-06 1.21228424e-05] w = [-0.07673935 0.8879694 2.18876994] w\_new= [-0.07673944 0.88796938 2.18877007]

gradient= [-9.60060503e-06 -2.50550512e-06 1.21061101e-05] w = [-0.07673944 0.88796938 2.18877007] w\_new= [-0.07673954 0.88796935 2.18877019]

gradient= [-9.58718940e-06 -2.50221154e-06 1.20894009e-05] w = [-0.07673954 0.88796935 2.18877019] w\_new= [-0.07673964 0.88796933 2.18877031]

gradient= [-9.57379254e-06 -2.49892226e-06 1.20727148e-05] w = [-0.07673964 0.88796933 2.18877031] w\_new= [-0.07673973 0.8879693 2.18877043]

gradient= [-9.56041442e-06 -2.49563726e-06 1.20560517e-05] w = [-0.07673973 0.8879693 2.18877043] w\_new= [-0.07673983 0.88796928 2.18877055]

gradient= [-9.54705501e-06 -2.49235654e-06 1.20394115e-05] w = [-0.07673983 0.88796928 2.18877055] w\_new= [-0.07673992 0.88796925 2.18877067]

gradient= [-9.53371428e-06 -2.48908010e-06 1.20227944e-05] w = [-0.07673992 0.88796925 2.18877067] w\_new= [-0.07674002 0.88796923 2.18877079]

gradient= [-9.52039222e-06 -2.48580793e-06 1.20062002e-05] w = [-0.07674002 0.88796923 2.18877079] w\_new= [-0.07674011 0.8879692 2.18877091]

gradient= [-9.50708879e-06 -2.48254002e-06 1.19896288e-05] w = [-0.07674011 0.8879692 2.18877091] w\_new= [-0.07674021 0.88796918 2.18877103]

gradient= [-9.49380397e-06 -2.47927638e-06 1.19730803e-05] w = [-0.07674021 0.88796918 2.18877103] w\_new= [-0.0767403 0.88796915 2.18877115]

gradient= [-9.48053773e-06 -2.47601699e-06 1.19565547e-05] w = [-0.0767403 0.88796915 2.18877115] w\_new= [-0.0767404 0.88796913 2.18877127]

gradient= [-9.46729004e-06 -2.47276184e-06 1.19400519e-05] w = [-0.0767404 0.88796913 2.18877127] w\_new= [-0.07674049 0.8879691 2.18877139]

gradient= [-9.45406089e-06 -2.46951094e-06 1.19235718e-05] w = [-0.07674049 0.8879691 2.18877139] w\_new= [-0.07674059 0.88796908 2.18877151]

gradient= [-9.44085024e-06 -2.46626428e-06 1.19071145e-05] w = [-0.07674059 0.88796908 2.18877151] w\_new= [-0.07674068 0.88796906 2.18877163]

gradient= [-9.42765807e-06 -2.46302184e-06 1.18906799e-05] w = [-0.07674068 0.88796906 2.18877163] w\_new= [-0.07674078 0.88796903 2.18877175]

gradient= [-9.41448434e-06 -2.45978364e-06 1.18742680e-05] w = [-0.07674078 0.88796903 2.18877175] w\_new= [-0.07674087 0.88796901 2.18877186]

gradient= [-9.40132905e-06 -2.45654965e-06 1.18578787e-05] w = [-0.07674087 0.88796901 2.18877186] w\_new= [-0.07674096 0.88796898 2.18877198]

gradient= [-9.38819216e-06 -2.45331988e-06 1.18415120e-05] w = [-0.07674096 0.88796898 2.18877198] w\_new= [-0.07674106 0.88796896 2.1887721 ]

gradient= [-9.37507364e-06 -2.45009432e-06 1.18251680e-05] w = [-0.07674106 0.88796896 2.1887721 ] w\_new= [-0.07674115 0.88796893 2.18877222]

gradient= [-9.36197347e-06 -2.44687297e-06 1.18088464e-05] w = [-0.07674115 0.88796893 2.18877222] w\_new= [-0.07674125 0.88796891 2.18877234]

gradient= [-9.34889162e-06 -2.44365581e-06 1.17925474e-05] w = [-0.07674125 0.88796891 2.18877234] w\_new= [-0.07674134 0.88796888 2.18877246]

gradient= [-9.33582807e-06 -2.44044285e-06 1.17762709e-05] w = [-0.07674134 0.88796888 2.18877246] w\_new= [-0.07674143 0.88796886 2.18877257]

gradient= [-9.32278279e-06 -2.43723408e-06 1.17600169e-05] w = [-0.07674143 0.88796886 2.18877257] w\_new= [-0.07674153 0.88796883 2.18877269]

gradient= [-9.30975576e-06 -2.43402949e-06 1.17437852e-05] w = [-0.07674153 0.88796883 2.18877269] w\_new= [-0.07674162 0.88796881 2.18877281]

gradient= [-9.29674695e-06 -2.43082908e-06 1.17275760e-05] w = [-0.07674162 0.88796881 2.18877281] w\_new= [-0.07674171 0.88796879 2.18877293]

gradient= [-9.28375633e-06 -2.42763284e-06 1.17113892e-05] w = [-0.07674171 0.88796879 2.18877293] w\_new= [-0.0767418 0.88796876 2.18877304]

gradient= [-9.27078389e-06 -2.42444076e-06 1.16952247e-05] w = [-0.0767418 0.88796876 2.18877304] w\_new= [-0.0767419 0.88796874 2.18877316]

gradient= [-9.25782959e-06 -2.42125285e-06 1.16790824e-05] w = [-0.0767419 0.88796874 2.18877316] w\_new= [-0.07674199 0.88796871 2.18877328]

gradient= [-9.24489341e-06 -2.41806910e-06 1.16629625e-05] w = [-0.07674199 0.88796871 2.18877328] w\_new= [-0.07674208 0.88796869 2.18877339]

gradient= [-9.23197532e-06 -2.41488949e-06 1.16468648e-05] w = [-0.07674208 0.88796869 2.18877339] w\_new= [-0.07674217 0.88796867 2.18877351]

gradient= [-9.21907530e-06 -2.41171403e-06 1.16307893e-05] w = [-0.07674217 0.88796867 2.18877351] w\_new= [-0.07674227 0.88796864 2.18877363]

gradient= [-9.20619332e-06 -2.40854271e-06 1.16147360e-05] w = [-0.07674227 0.88796864 2.18877363] w\_new= [-0.07674236 0.88796862 2.18877374]

gradient= [-9.19332936e-06 -2.40537553e-06 1.15987049e-05] w = [-0.07674236 0.88796862 2.18877374] w\_new= [-0.07674245 0.88796859 2.18877386]

gradient= [-9.18048339e-06 -2.40221247e-06 1.15826959e-05] w = [-0.07674245 0.88796859 2.18877386] w\_new= [-0.07674254 0.88796857 2.18877397]

gradient= [-9.16765539e-06 -2.39905354e-06 1.15667089e-05] w = [-0.07674254 0.88796857 2.18877397] w\_new= [-0.07674263 0.88796854 2.18877409]

gradient= [-9.15484534e-06 -2.39589873e-06 1.15507441e-05] w = [-0.07674263 0.88796854 2.18877409] w\_new= [-0.07674273 0.88796852 2.1887742 ]

gradient= [-9.14205320e-06 -2.39274803e-06 1.15348012e-05] w = [-0.07674273 0.88796852 2.1887742 ] w\_new= [-0.07674282 0.8879685 2.18877432]

gradient= [-9.12927895e-06 -2.38960144e-06 1.15188804e-05] w = [-0.07674282 0.8879685 2.18877432] w\_new= [-0.07674291 0.88796847 2.18877444]

gradient= [-9.11652257e-06 -2.38645895e-06 1.15029815e-05] w = [-0.07674291 0.88796847 2.18877444] w\_new= [-0.076743 0.88796845 2.18877455]

gradient= [-9.10378403e-06 -2.38332056e-06 1.14871046e-05] w = [-0.076743 0.88796845 2.18877455] w\_new= [-0.07674309 0.88796843 2.18877467]

gradient= [-9.09106330e-06 -2.38018626e-06 1.14712496e-05] w = [-0.07674309 0.88796843 2.18877467] w\_new= [-0.07674318 0.8879684 2.18877478]

gradient= [-9.07836037e-06 -2.37705605e-06 1.14554164e-05] w = [-0.07674318 0.8879684 2.18877478] w\_new= [-0.07674327 0.88796838 2.18877489]

gradient= [-9.06567521e-06 -2.37392992e-06 1.14396051e-05] w = [-0.07674327 0.88796838 2.18877489] w\_new= [-0.07674336 0.88796835 2.18877501]

gradient= [-9.05300779e-06 -2.37080787e-06 1.14238157e-05] w = [-0.07674336 0.88796835 2.18877501] w\_new= [-0.07674345 0.88796833 2.18877512]

gradient= [-9.04035808e-06 -2.36768988e-06 1.14080480e-05] w = [-0.07674345 0.88796833 2.18877512] w\_new= [-0.07674354 0.88796831 2.18877524]

gradient= [-9.02772607e-06 -2.36457597e-06 1.13923020e-05] w = [-0.07674354 0.88796831 2.18877524] w\_new= [-0.07674363 0.88796828 2.18877535]

gradient= [-9.01511172e-06 -2.36146611e-06 1.13765778e-05] w = [-0.07674363 0.88796828 2.18877535] w\_new= [-0.07674372 0.88796826 2.18877546]

gradient= [-9.00251502e-06 -2.35836031e-06 1.13608753e-05] w = [-0.07674372 0.88796826 2.18877546] w\_new= [-0.07674381 0.88796824 2.18877558]

gradient= [-8.98993594e-06 -2.35525856e-06 1.13451945e-05] w = [-0.07674381 0.88796824 2.18877558] w\_new= [-0.0767439 0.88796821 2.18877569]

gradient= [-8.97737445e-06 -2.35216086e-06 1.13295353e-05] w = [-0.0767439 0.88796821 2.18877569] w\_new= [-0.07674399 0.88796819 2.18877581]

gradient= [-8.96483053e-06 -2.34906719e-06 1.13138977e-05] w = [-0.07674399 0.88796819 2.18877581] w\_new= [-0.07674408 0.88796817 2.18877592]

gradient= [-8.95230415e-06 -2.34597756e-06 1.12982817e-05] w = [-0.07674408 0.88796817 2.18877592] w\_new= [-0.07674417 0.88796814 2.18877603]

gradient= [-8.93979530e-06 -2.34289196e-06 1.12826873e-05] w = [-0.07674417 0.88796814 2.18877603] w\_new= [-0.07674426 0.88796812 2.18877614]

gradient= [-8.92730394e-06 -2.33981038e-06 1.12671143e-05] w = [-0.07674426 0.88796812 2.18877614] w\_new= [-0.07674435 0.8879681 2.18877626]

gradient= [-8.91483005e-06 -2.33673282e-06 1.12515629e-05] w = [-0.07674435 0.8879681 2.18877626] w\_new= [-0.07674444 0.88796807 2.18877637]

gradient= [-8.90237360e-06 -2.33365928e-06 1.12360329e-05] w = [-0.07674444 0.88796807 2.18877637] w\_new= [-0.07674453 0.88796805 2.18877648]

gradient= [-8.88993458e-06 -2.33058974e-06 1.12205243e-05] w = [-0.07674453 0.88796805 2.18877648] w\_new= [-0.07674462 0.88796803 2.18877659]

gradient= [-8.87751296e-06 -2.32752421e-06 1.12050372e-05] w = [-0.07674462 0.88796803 2.18877659] w\_new= [-0.07674471 0.887968 2.18877671]

gradient= [-8.86510870e-06 -2.32446267e-06 1.11895714e-05] w = [-0.07674471 0.887968 2.18877671] w\_new= [-0.0767448 0.88796798 2.18877682]

gradient= [-8.85272180e-06 -2.32140513e-06 1.11741269e-05] w = [-0.0767448 0.88796798 2.18877682] w\_new= [-0.07674489 0.88796796 2.18877693]

gradient= [-8.84035222e-06 -2.31835158e-06 1.11587038e-05] w = [-0.07674489 0.88796796 2.18877693] w\_new= [-0.07674497 0.88796793 2.18877704]

gradient= [-8.82799995e-06 -2.31530201e-06 1.11433020e-05] w = [-0.07674497 0.88796793 2.18877704] w\_new= [-0.07674506 0.88796791 2.18877715]

gradient= [-8.81566494e-06 -2.31225641e-06 1.11279214e-05] w = [-0.07674506 0.88796791 2.18877715] w\_new= [-0.07674515 0.88796789 2.18877726]

gradient= [-8.80334719e-06 -2.30921479e-06 1.11125620e-05] w = [-0.07674515 0.88796789 2.18877726] w\_new= [-0.07674524 0.88796786 2.18877738]

gradient= [-8.79104667e-06 -2.30617714e-06 1.10972238e-05] w = [-0.07674524 0.88796786 2.18877738] w\_new= [-0.07674533 0.88796784 2.18877749]

gradient= [-8.77876335e-06 -2.30314345e-06 1.10819068e-05] w = [-0.07674533 0.88796784 2.18877749] w\_new= [-0.07674541 0.88796782 2.1887776 ]

gradient= [-8.76649721e-06 -2.30011371e-06 1.10666109e-05] w = [-0.07674541 0.88796782 2.1887776 ] w\_new= [-0.0767455 0.88796779 2.18877771]

gradient= [-8.75424823e-06 -2.29708793e-06 1.10513362e-05] w = [-0.0767455 0.88796779 2.18877771] w\_new= [-0.07674559 0.88796777 2.18877782]

gradient= [-8.74201638e-06 -2.29406610e-06 1.10360825e-05] w = [-0.07674559 0.88796777 2.18877782] w\_new= [-0.07674568 0.88796775 2.18877793]

gradient= [-8.72980163e-06 -2.29104820e-06 1.10208498e-05] w = [-0.07674568 0.88796775 2.18877793] w\_new= [-0.07674576 0.88796772 2.18877804]

gradient= [-8.71760397e-06 -2.28803425e-06 1.10056382e-05] w = [-0.07674576 0.88796772 2.18877804] w\_new= [-0.07674585 0.8879677 2.18877815]

gradient= [-8.70542337e-06 -2.28502422e-06 1.09904476e-05] w = [-0.07674585 0.8879677 2.18877815] w\_new= [-0.07674594 0.88796768 2.18877826]

gradient= [-8.69325980e-06 -2.28201812e-06 1.09752779e-05] w = [-0.07674594 0.88796768 2.18877826] w\_new= [-0.07674602 0.88796766 2.18877837]

gradient= [-8.68111325e-06 -2.27901595e-06 1.09601292e-05] w = [-0.07674602 0.88796766 2.18877837] w\_new= [-0.07674611 0.88796763 2.18877848]

gradient= [-8.66898368e-06 -2.27601769e-06 1.09450014e-05] w = [-0.07674611 0.88796763 2.18877848] w\_new= [-0.0767462 0.88796761 2.18877859]

gradient= [-8.65687108e-06 -2.27302334e-06 1.09298944e-05] w = [-0.0767462 0.88796761 2.18877859] w\_new= [-0.07674628 0.88796759 2.1887787 ]

gradient= [-8.64477542e-06 -2.27003289e-06 1.09148083e-05] w = [-0.07674628 0.88796759 2.1887787 ] w\_new= [-0.07674637 0.88796757 2.18877881]

gradient= [-8.63269668e-06 -2.26704635e-06 1.08997430e-05] w = [-0.07674637 0.88796757 2.18877881] w\_new= [-0.07674646 0.88796754 2.18877891]

gradient= [-8.62063482e-06 -2.26406371e-06 1.08846985e-05] w = [-0.07674646 0.88796754 2.18877891] w\_new= [-0.07674654 0.88796752 2.18877902]

gradient= [-8.60858984e-06 -2.26108495e-06 1.08696748e-05] w = [-0.07674654 0.88796752 2.18877902] w\_new= [-0.07674663 0.8879675 2.18877913]

gradient= [-8.59656170e-06 -2.25811009e-06 1.08546718e-05] w = [-0.07674663 0.8879675 2.18877913] w\_new= [-0.07674672 0.88796747 2.18877924]

gradient= [-8.58455039e-06 -2.25513910e-06 1.08396895e-05] w = [-0.07674672 0.88796747 2.18877924] w\_new= [-0.0767468 0.88796745 2.18877935]

gradient= [-8.57255588e-06 -2.25217199e-06 1.08247279e-05] w = [-0.0767468 0.88796745 2.18877935] w\_new= [-0.07674689 0.88796743 2.18877946]

gradient= [-8.56057813e-06 -2.24920875e-06 1.08097869e-05] w = [-0.07674689 0.88796743 2.18877946] w\_new= [-0.07674697 0.88796741 2.18877957]

gradient= [-8.54861715e-06 -2.24624938e-06 1.07948665e-05] w = [-0.07674697 0.88796741 2.18877957] w\_new= [-0.07674706 0.88796738 2.18877967]

gradient= [-8.53667289e-06 -2.24329386e-06 1.07799667e-05] w = [-0.07674706 0.88796738 2.18877967] w\_new= [-0.07674714 0.88796736 2.18877978]

gradient= [-8.52474533e-06 -2.24034221e-06 1.07650875e-05] w = [-0.07674714 0.88796736 2.18877978] w\_new= [-0.07674723 0.88796734 2.18877989]

gradient= [-8.51283446e-06 -2.23739440e-06 1.07502289e-05] w = [-0.07674723 0.88796734 2.18877989] w\_new= [-0.07674731 0.88796732 2.18878 ]

gradient= [-8.50094024e-06 -2.23445044e-06 1.07353907e-05] w = [-0.07674731 0.88796732 2.18878 ] w\_new= [-0.0767474 0.8879673 2.1887801]

gradient= [-8.48906266e-06 -2.23151033e-06 1.07205730e-05] w = [-0.0767474 0.8879673 2.1887801] w\_new= [-0.07674748 0.88796727 2.18878021]

gradient= [-8.47720169e-06 -2.22857405e-06 1.07057757e-05] w = [-0.07674748 0.88796727 2.18878021] w\_new= [-0.07674757 0.88796725 2.18878032]

gradient= [-8.46535731e-06 -2.22564160e-06 1.06909989e-05] w = [-0.07674757 0.88796725 2.18878032] w\_new= [-0.07674765 0.88796723 2.18878043]

gradient= [-8.45352949e-06 -2.22271297e-06 1.06762425e-05] w = [-0.07674765 0.88796723 2.18878043] w\_new= [-0.07674774 0.88796721 2.18878053]

gradient= [-8.44171821e-06 -2.21978817e-06 1.06615064e-05] w = [-0.07674774 0.88796721 2.18878053] w\_new= [-0.07674782 0.88796718 2.18878064]

gradient= [-8.42992346e-06 -2.21686719e-06 1.06467906e-05] w = [-0.07674782 0.88796718 2.18878064] w\_new= [-0.07674791 0.88796716 2.18878075]

gradient= [-8.41814520e-06 -2.21395001e-06 1.06320952e-05] w = [-0.07674791 0.88796716 2.18878075] w\_new= [-0.07674799 0.88796714 2.18878085]

gradient= [-8.40638341e-06 -2.21103665e-06 1.06174201e-05] w = [-0.07674799 0.88796714 2.18878085] w\_new= [-0.07674808 0.88796712 2.18878096]

gradient= [-8.39463807e-06 -2.20812708e-06 1.06027651e-05] w = [-0.07674808 0.88796712 2.18878096] w\_new= [-0.07674816 0.8879671 2.18878106]

gradient= [-8.38290915e-06 -2.20522131e-06 1.05881305e-05] w = [-0.07674816 0.8879671 2.18878106] w\_new= [-0.07674824 0.88796707 2.18878117]

gradient= [-8.37119664e-06 -2.20231934e-06 1.05735160e-05] w = [-0.07674824 0.88796707 2.18878117] w\_new= [-0.07674833 0.88796705 2.18878128]

gradient= [-8.35950051e-06 -2.19942115e-06 1.05589217e-05] w = [-0.07674833 0.88796705 2.18878128] w\_new= [-0.07674841 0.88796703 2.18878138]

gradient= [-8.34782074e-06 -2.19652674e-06 1.05443475e-05] w = [-0.07674841 0.88796703 2.18878138] w\_new= [-0.07674849 0.88796701 2.18878149]

gradient= [-8.33615730e-06 -2.19363611e-06 1.05297934e-05] w = [-0.07674849 0.88796701 2.18878149] w\_new= [-0.07674858 0.88796699 2.18878159]

gradient= [-8.32451018e-06 -2.19074925e-06 1.05152594e-05] w = [-0.07674858 0.88796699 2.18878159] w\_new= [-0.07674866 0.88796696 2.1887817 ]

gradient= [-8.31287934e-06 -2.18786616e-06 1.05007455e-05] w = [-0.07674866 0.88796696 2.1887817 ] w\_new= [-0.07674874 0.88796694 2.1887818 ]

gradient= [-8.30126477e-06 -2.18498684e-06 1.04862516e-05] w = [-0.07674874 0.88796694 2.1887818 ] w\_new= [-0.07674883 0.88796692 2.18878191]

gradient= [-8.28966644e-06 -2.18211127e-06 1.04717777e-05] w = [-0.07674883 0.88796692 2.18878191] w\_new= [-0.07674891 0.8879669 2.18878201]

gradient= [-8.27808433e-06 -2.17923945e-06 1.04573238e-05] w = [-0.07674891 0.8879669 2.18878201] w\_new= [-0.07674899 0.88796688 2.18878212]

gradient= [-8.26651842e-06 -2.17637138e-06 1.04428898e-05] w = [-0.07674899 0.88796688 2.18878212] w\_new= [-0.07674907 0.88796685 2.18878222]

gradient= [-8.25496869e-06 -2.17350706e-06 1.04284757e-05] w = [-0.07674907 0.88796685 2.18878222] w\_new= [-0.07674916 0.88796683 2.18878232]

gradient= [-8.24343511e-06 -2.17064647e-06 1.04140816e-05] w = [-0.07674916 0.88796683 2.18878232] w\_new= [-0.07674924 0.88796681 2.18878243]

gradient= [-8.23191766e-06 -2.16778962e-06 1.03997073e-05] w = [-0.07674924 0.88796681 2.18878243] w\_new= [-0.07674932 0.88796679 2.18878253]

gradient= [-8.22041631e-06 -2.16493649e-06 1.03853528e-05] w = [-0.07674932 0.88796679 2.18878253] w\_new= [-0.0767494 0.88796677 2.18878264]

gradient= [-8.20893105e-06 -2.16208709e-06 1.03710181e-05] w = [-0.0767494 0.88796677 2.18878264] w\_new= [-0.07674949 0.88796675 2.18878274]

gradient= [-8.19746185e-06 -2.15924141e-06 1.03567033e-05] w = [-0.07674949 0.88796675 2.18878274] w\_new= [-0.07674957 0.88796672 2.18878284]

gradient= [-8.18600869e-06 -2.15639945e-06 1.03424081e-05] w = [-0.07674957 0.88796672 2.18878284] w\_new= [-0.07674965 0.8879667 2.18878295]

gradient= [-8.17457155e-06 -2.15356119e-06 1.03281327e-05] w = [-0.07674965 0.8879667 2.18878295] w\_new= [-0.07674973 0.88796668 2.18878305]

gradient= [-8.16315040e-06 -2.15072664e-06 1.03138770e-05] w = [-0.07674973 0.88796668 2.18878305] w\_new= [-0.07674981 0.88796666 2.18878315]

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gradient= [-8.12898271e-06 -2.14224516e-06 1.02712279e-05] w = [-0.07674998 0.88796662 2.18878336] w\_new= [-0.07675006 0.8879666 2.18878346]

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gradient= [-8.10628381e-06 -2.13660928e-06 1.02428931e-05] w = [-0.07675014 0.88796657 2.18878356] w\_new= [-0.07675022 0.88796655 2.18878367]

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gradient= [-8.08364836e-06 -2.13098810e-06 1.02146365e-05] w = [-0.0767503 0.88796653 2.18878377] w\_new= [-0.07675038 0.88796651 2.18878387]

gradient= [-8.07235436e-06 -2.12818301e-06 1.02005374e-05] w = [-0.07675038 0.88796651 2.18878387] w\_new= [-0.07675046 0.88796649 2.18878397]

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gradient= [-8.02733612e-06 -2.11699924e-06 1.01443354e-05] w = [-0.0767507 0.88796643 2.18878428] w\_new= [-0.07675078 0.8879664 2.18878438]

gradient= [-8.01612088e-06 -2.11421242e-06 1.01303333e-05] w = [-0.07675078 0.8879664 2.18878438] w\_new= [-0.07675086 0.88796638 2.18878448]

gradient= [-8.00492132e-06 -2.11142923e-06 1.01163506e-05] w = [-0.07675086 0.88796638 2.18878448] w\_new= [-0.07675094 0.88796636 2.18878458]

gradient= [-7.99373743e-06 -2.10864968e-06 1.01023871e-05] w = [-0.07675094 0.88796636 2.18878458] w\_new= [-0.07675102 0.88796634 2.18878468]

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gradient= [-7.92696174e-06 -2.09204841e-06 1.00190102e-05] w = [-0.07675142 0.88796624 2.18878519] w\_new= [-0.0767515 0.88796621 2.18878529]

gradient= [-7.91588687e-06 -2.08929416e-06 1.00051810e-05] w = [-0.0767515 0.88796621 2.18878529] w\_new= [-0.07675158 0.88796619 2.18878539]

gradient= [-7.90482749e-06 -2.08654351e-06 9.99137100e-06] w = [-0.07675158 0.88796619 2.18878539] w\_new= [-0.07675166 0.88796617 2.18878549]

Initial sample = [[3, 2, 3]]

100%|██████████| 11000/11000 [00:00<00:00, 14464.12it/s]

**Streaming output truncated to the last 5000 lines.**

gradient= [-0.01408249 -0.00052996 0.01461246] w = [0.06193956 0.96878791 1.96927253] w\_new= [0.06179874 0.96878261 1.96941865]

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gradient= [-0.01399748 -0.00052716 0.01452464] w = [0.06137754 0.96876676 1.96985571] w\_new= [0.06123756 0.96876148 1.97000095]

gradient= [-0.01397631 -0.00052646 0.01450277] w = [0.06123756 0.96876148 1.97000095] w\_new= [0.0610978 0.96875622 1.97014598]

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gradient= [-0.01393407 -0.00052507 0.01445914] w = [0.06095825 0.96875096 1.97029079] w\_new= [0.06081891 0.96874571 1.97043538]

gradient= [-0.013913 -0.00052438 0.01443737] w = [0.06081891 0.96874571 1.97043538] w\_new= [0.06067978 0.96874047 1.97057975]

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gradient= [-0.01387095 -0.00052299 0.01439394] w = [0.06054086 0.96873523 1.97072391] w\_new= [0.06040215 0.96873 1.97086785]

gradient= [-0.01384998 -0.0005223 0.01437228] w = [0.06040215 0.96873 1.97086785] w\_new= [0.06026365 0.96872478 1.97101157]

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gradient= [-0.01380814 -0.00052091 0.01432905] w = [0.06012536 0.96871956 1.97115508] w\_new= [0.05998728 0.96871435 1.97129837]

gradient= [-0.01378726 -0.00052022 0.01430749] w = [0.05998728 0.96871435 1.97129837] w\_new= [0.0598494 0.96870915 1.97144144]

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gradient= [-0.01370409 -0.00051748 0.01422157] w = [0.05943704 0.96869359 1.97186938] w\_new= [0.0593 0.96868841 1.97201159]

gradient= [-0.01368338 -0.00051679 0.01420017] w = [0.0593 0.96868841 1.97201159] w\_new= [0.05916316 0.96868324 1.9721536 ]

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gradient= [-0.01364205 -0.00051543 0.01415748] w = [0.05902653 0.96867808 1.97229538] w\_new= [0.05889011 0.96867293 1.97243696]

gradient= [-0.01362143 -0.00051474 0.01413618] w = [0.05889011 0.96867293 1.97243696] w\_new= [0.0587539 0.96866778 1.97257832]

gradient= [-0.01360085 -0.00051406 0.01411491] w = [0.0587539 0.96866778 1.97257832] w\_new= [0.05861789 0.96866264 1.97271947]

gradient= [-0.0135803 -0.00051338 0.01409368] w = [0.05861789 0.96866264 1.97271947] w\_new= [0.05848209 0.96865751 1.97286041]

gradient= [-0.01355978 -0.0005127 0.01407249] w = [0.05848209 0.96865751 1.97286041] w\_new= [0.05834649 0.96865238 1.97300113]

gradient= [-0.01353929 -0.00051203 0.01405132] w = [0.05834649 0.96865238 1.97300113] w\_new= [0.0582111 0.96864726 1.97314164]

gradient= [-0.01351884 -0.00051135 0.01403019] w = [0.0582111 0.96864726 1.97314164] w\_new= [0.05807591 0.96864214 1.97328195]

gradient= [-0.01349842 -0.00051067 0.01400909] w = [0.05807591 0.96864214 1.97328195] w\_new= [0.05794092 0.96863704 1.97342204]

gradient= [-0.01347803 -0.00051 0.01398802] w = [0.05794092 0.96863704 1.97342204] w\_new= [0.05780614 0.96863194 1.97356192]

gradient= [-0.01345767 -0.00050933 0.01396699] w = [0.05780614 0.96863194 1.97356192] w\_new= [0.05767157 0.96862684 1.97370159]

gradient= [-0.01343734 -0.00050865 0.01394599] w = [0.05767157 0.96862684 1.97370159] w\_new= [0.05753719 0.96862176 1.97384105]

gradient= [-0.01341704 -0.00050798 0.01392502] w = [0.05753719 0.96862176 1.97384105] w\_new= [0.05740302 0.96861668 1.9739803 ]

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gradient= [-0.01337654 -0.00050664 0.01388318] w = [0.05726906 0.9686116 1.97411934] w\_new= [0.05713529 0.96860654 1.97425817]

gradient= [-0.01335634 -0.00050597 0.01386231] w = [0.05713529 0.96860654 1.97425817] w\_new= [0.05700173 0.96860148 1.97439679]

gradient= [-0.01333617 -0.0005053 0.01384147] w = [0.05700173 0.96860148 1.97439679] w\_new= [0.05686837 0.96859643 1.97453521]

gradient= [-0.01331604 -0.00050463 0.01382067] w = [0.05686837 0.96859643 1.97453521] w\_new= [0.05673521 0.96859138 1.97467342]

gradient= [-0.01329593 -0.00050397 0.0137999 ] w = [0.05673521 0.96859138 1.97467342] w\_new= [0.05660225 0.96858634 1.97481141]

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gradient= [-0.01325581 -0.00050264 0.01375845] w = [0.05646949 0.96858131 1.97494921] w\_new= [0.05633693 0.96857628 1.97508679]

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gradient= [-0.01313619 -0.00049867 0.01363486] w = [0.05567713 0.96855125 1.97577162] w\_new= [0.05554577 0.96854626 1.97590797]

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gradient= [-0.01305707 -0.00049604 0.01355311] w = [0.05515288 0.96853134 1.97631578] w\_new= [0.0550223 0.96852638 1.97645132]

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gradient= [-0.01295886 -0.00049278 0.01345164] w = [0.05450199 0.9685066 1.97699141] w\_new= [0.0543724 0.96850168 1.97712592]

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gradient= [-0.01288084 -0.00049019 0.01337102] w = [0.05398481 0.96848693 1.97752826] w\_new= [0.053856 0.96848203 1.97766197]

gradient= [-0.01286141 -0.00048954 0.01335095] w = [0.053856 0.96848203 1.97766197] w\_new= [0.05372738 0.96847713 1.97779548]

gradient= [-0.01284201 -0.00048889 0.0133309 ] w = [0.05372738 0.96847713 1.97779548] w\_new= [0.05359896 0.96847225 1.97792879]

gradient= [-0.01282264 -0.00048825 0.01331089] w = [0.05359896 0.96847225 1.97792879] w\_new= [0.05347074 0.96846736 1.9780619 ]

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gradient= [-0.01278399 -0.00048696 0.01327095] w = [0.0533427 0.96846249 1.97819481] w\_new= [0.05321487 0.96845762 1.97832752]

gradient= [-0.01276471 -0.00048632 0.01325103] w = [0.05321487 0.96845762 1.97832752] w\_new= [0.05308722 0.96845275 1.97846003]

gradient= [-0.01274546 -0.00048568 0.01323114] w = [0.05308722 0.96845275 1.97846003] w\_new= [0.05295976 0.9684479 1.97859234]

gradient= [-0.01272624 -0.00048504 0.01321128] w = [0.05295976 0.9684479 1.97859234] w\_new= [0.0528325 0.96844305 1.97872445]

gradient= [-0.01270705 -0.0004844 0.01319145] w = [0.0528325 0.96844305 1.97872445] w\_new= [0.05270543 0.9684382 1.97885637]

gradient= [-0.01268789 -0.00048376 0.01317166] w = [0.05270543 0.9684382 1.97885637] w\_new= [0.05257855 0.96843337 1.97898808]

gradient= [-0.01266876 -0.00048313 0.01315189] w = [0.05257855 0.96843337 1.97898808] w\_new= [0.05245186 0.96842853 1.9791196 ]

gradient= [-0.01264966 -0.00048249 0.01313215] w = [0.05245186 0.96842853 1.9791196 ] w\_new= [0.05232537 0.96842371 1.97925092]

gradient= [-0.01263059 -0.00048186 0.01311245] w = [0.05232537 0.96842371 1.97925092] w\_new= [0.05219906 0.96841889 1.97938205]

gradient= [-0.01261155 -0.00048122 0.01309277] w = [0.05219906 0.96841889 1.97938205] w\_new= [0.05207295 0.96841408 1.97951298]

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gradient= [-0.01249792 -0.00047743 0.01297536] w = [0.05144521 0.96839011 1.98016467] w\_new= [0.05132023 0.96838534 1.98029443]

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gradient= [-0.01246028 -0.00047618 0.01293646] w = [0.05119544 0.96838057 1.98042399] w\_new= [0.05107084 0.96837581 1.98055335]

gradient= [-0.01244151 -0.00047555 0.01291706] w = [0.05107084 0.96837581 1.98055335] w\_new= [0.05094643 0.96837105 1.98068252]

gradient= [-0.01242276 -0.00047492 0.01289768] w = [0.05094643 0.96837105 1.98068252] w\_new= [0.0508222 0.9683663 1.9808115]

gradient= [-0.01240404 -0.0004743 0.01287834] w = [0.0508222 0.9683663 1.9808115] w\_new= [0.05069816 0.96836156 1.98094028]

gradient= [-0.01238535 -0.00047367 0.01285903] w = [0.05069816 0.96836156 1.98094028] w\_new= [0.0505743 0.96835682 1.98106887]

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gradient= [-0.01232946 -0.00047181 0.01280127] w = [0.05032716 0.96834737 1.98132547] w\_new= [0.05020386 0.96834265 1.98145349]

gradient= [-0.01231088 -0.00047119 0.01278207] w = [0.05020386 0.96834265 1.98145349] w\_new= [0.05008075 0.96833794 1.98158131]

gradient= [-0.01229234 -0.00047057 0.01276291] w = [0.05008075 0.96833794 1.98158131] w\_new= [0.04995783 0.96833323 1.98170894]

gradient= [-0.01227382 -0.00046995 0.01274377] w = [0.04995783 0.96833323 1.98170894] w\_new= [0.04983509 0.96832853 1.98183637]

gradient= [-0.01225534 -0.00046933 0.01272467] w = [0.04983509 0.96832853 1.98183637] w\_new= [0.04971254 0.96832384 1.98196362]

gradient= [-0.01223688 -0.00046871 0.01270559] w = [0.04971254 0.96832384 1.98196362] w\_new= [0.04959017 0.96831915 1.98209068]

gradient= [-0.01221845 -0.0004681 0.01268655] w = [0.04959017 0.96831915 1.98209068] w\_new= [0.04946799 0.96831447 1.98221754]

gradient= [-0.01220005 -0.00046748 0.01266753] w = [0.04946799 0.96831447 1.98221754] w\_new= [0.04934599 0.9683098 1.98234422]

gradient= [-0.01218167 -0.00046687 0.01264854] w = [0.04934599 0.9683098 1.98234422] w\_new= [0.04922417 0.96830513 1.9824707 ]

gradient= [-0.01216333 -0.00046625 0.01262958] w = [0.04922417 0.96830513 1.9824707 ] w\_new= [0.04910254 0.96830047 1.982597 ]

gradient= [-0.01214501 -0.00046564 0.01261065] w = [0.04910254 0.96830047 1.982597 ] w\_new= [0.04898108 0.96829581 1.98272311]

gradient= [-0.01212673 -0.00046503 0.01259175] w = [0.04898108 0.96829581 1.98272311] w\_new= [0.04885982 0.96829116 1.98284902]

gradient= [-0.01210847 -0.00046442 0.01257288] w = [0.04885982 0.96829116 1.98284902] w\_new= [0.04873873 0.96828652 1.98297475]

gradient= [-0.01209024 -0.00046381 0.01255404] w = [0.04873873 0.96828652 1.98297475] w\_new= [0.04861783 0.96828188 1.98310029]

gradient= [-0.01207203 -0.0004632 0.01253523] w = [0.04861783 0.96828188 1.98310029] w\_new= [0.04849711 0.96827725 1.98322564]

gradient= [-0.01205386 -0.00046259 0.01251645] w = [0.04849711 0.96827725 1.98322564] w\_new= [0.04837657 0.96827262 1.98335081]

gradient= [-0.01203571 -0.00046198 0.01249769] w = [0.04837657 0.96827262 1.98335081] w\_new= [0.04825621 0.968268 1.98347579]

gradient= [-0.01201759 -0.00046137 0.01247897] w = [0.04825621 0.968268 1.98347579] w\_new= [0.04813604 0.96826339 1.98360058]

gradient= [-0.0119995 -0.00046077 0.01246027] w = [0.04813604 0.96826339 1.98360058] w\_new= [0.04801604 0.96825878 1.98372518]

gradient= [-0.01198144 -0.00046016 0.01244161] w = [0.04801604 0.96825878 1.98372518] w\_new= [0.04789623 0.96825418 1.98384959]

gradient= [-0.01196341 -0.00045956 0.01242297] w = [0.04789623 0.96825418 1.98384959] w\_new= [0.0477766 0.96824958 1.98397382]

gradient= [-0.0119454 -0.00045896 0.01240436] w = [0.0477766 0.96824958 1.98397382] w\_new= [0.04765714 0.96824499 1.98409787]

gradient= [-0.01192742 -0.00045835 0.01238578] w = [0.04765714 0.96824499 1.98409787] w\_new= [0.04753787 0.96824041 1.98422173]

gradient= [-0.01190947 -0.00045775 0.01236722] w = [0.04753787 0.96824041 1.98422173] w\_new= [0.04741877 0.96823583 1.9843454 ]

gradient= [-0.01189155 -0.00045715 0.0123487 ] w = [0.04741877 0.96823583 1.9843454 ] w\_new= [0.04729986 0.96823126 1.98446888]

gradient= [-0.01187366 -0.00045655 0.01233021] w = [0.04729986 0.96823126 1.98446888] w\_new= [0.04718112 0.96822669 1.98459219]

gradient= [-0.01185579 -0.00045595 0.01231174] w = [0.04718112 0.96822669 1.98459219] w\_new= [0.04706256 0.96822213 1.9847153 ]

gradient= [-0.01183795 -0.00045535 0.0122933 ] w = [0.04706256 0.96822213 1.9847153 ] w\_new= [0.04694418 0.96821758 1.98483824]

gradient= [-0.01182014 -0.00045475 0.01227489] w = [0.04694418 0.96821758 1.98483824] w\_new= [0.04682598 0.96821303 1.98496099]

gradient= [-0.01180235 -0.00045416 0.01225651] w = [0.04682598 0.96821303 1.98496099] w\_new= [0.04670796 0.96820849 1.98508355]

gradient= [-0.0117846 -0.00045356 0.01223816] w = [0.04670796 0.96820849 1.98508355] w\_new= [0.04659011 0.96820396 1.98520593]

gradient= [-0.01176687 -0.00045297 0.01221983] w = [0.04659011 0.96820396 1.98520593] w\_new= [0.04647244 0.96819943 1.98532813]

gradient= [-0.01174917 -0.00045237 0.01220154] w = [0.04647244 0.96819943 1.98532813] w\_new= [0.04635495 0.9681949 1.98545015]

gradient= [-0.01173149 -0.00045178 0.01218327] w = [0.04635495 0.9681949 1.98545015] w\_new= [0.04623764 0.96819038 1.98557198]

gradient= [-0.01171384 -0.00045118 0.01216503] w = [0.04623764 0.96819038 1.98557198] w\_new= [0.0461205 0.96818587 1.98569363]

gradient= [-0.01169622 -0.00045059 0.01214682] w = [0.0461205 0.96818587 1.98569363] w\_new= [0.04600354 0.96818137 1.9858151 ]

gradient= [-0.01167863 -0.00045 0.01212863] w = [0.04600354 0.96818137 1.9858151 ] w\_new= [0.04588675 0.96817687 1.98593638]

gradient= [-0.01166107 -0.00044941 0.01211048] w = [0.04588675 0.96817687 1.98593638] w\_new= [0.04577014 0.96817237 1.98605749]

gradient= [-0.01164353 -0.00044882 0.01209235] w = [0.04577014 0.96817237 1.98605749] w\_new= [0.0456537 0.96816788 1.98617841]

gradient= [-0.01162602 -0.00044823 0.01207425] w = [0.0456537 0.96816788 1.98617841] w\_new= [0.04553744 0.9681634 1.98629915]

gradient= [-0.01160853 -0.00044764 0.01205618] w = [0.04553744 0.9681634 1.98629915] w\_new= [0.04542136 0.96815893 1.98641972]

gradient= [-0.01159108 -0.00044706 0.01203813] w = [0.04542136 0.96815893 1.98641972] w\_new= [0.04530545 0.96815445 1.9865401 ]

gradient= [-0.01157365 -0.00044647 0.01202012] w = [0.04530545 0.96815445 1.9865401 ] w\_new= [0.04518971 0.96814999 1.9866603 ]

gradient= [-0.01155624 -0.00044589 0.01200213] w = [0.04518971 0.96814999 1.9866603 ] w\_new= [0.04507415 0.96814553 1.98678032]

gradient= [-0.01153887 -0.0004453 0.01198417] w = [0.04507415 0.96814553 1.98678032] w\_new= [0.04495876 0.96814108 1.98690016]

gradient= [-0.01152152 -0.00044472 0.01196624] w = [0.04495876 0.96814108 1.98690016] w\_new= [0.04484354 0.96813663 1.98701982]

gradient= [-0.0115042 -0.00044413 0.01194833] w = [0.04484354 0.96813663 1.98701982] w\_new= [0.0447285 0.96813219 1.98713931]

gradient= [-0.0114869 -0.00044355 0.01193045] w = [0.0447285 0.96813219 1.98713931] w\_new= [0.04461363 0.96812775 1.98725861]

gradient= [-0.01146963 -0.00044297 0.0119126 ] w = [0.04461363 0.96812775 1.98725861] w\_new= [0.04449894 0.96812332 1.98737774]

gradient= [-0.01145239 -0.00044239 0.01189478] w = [0.04449894 0.96812332 1.98737774] w\_new= [0.04438441 0.9681189 1.98749669]

gradient= [-0.01143517 -0.00044181 0.01187698] w = [0.04438441 0.9681189 1.98749669] w\_new= [0.04427006 0.96811448 1.98761546]

gradient= [-0.01141798 -0.00044123 0.01185922] w = [0.04427006 0.96811448 1.98761546] w\_new= [0.04415588 0.96811007 1.98773405]

gradient= [-0.01140082 -0.00044065 0.01184148] w = [0.04415588 0.96811007 1.98773405] w\_new= [0.04404187 0.96810566 1.98785246]

gradient= [-0.01138369 -0.00044008 0.01182376] w = [0.04404187 0.96810566 1.98785246] w\_new= [0.04392804 0.96810126 1.9879707 ]

gradient= [-0.01136658 -0.0004395 0.01180608] w = [0.04392804 0.96810126 1.9879707 ] w\_new= [0.04381437 0.96809687 1.98808876]

gradient= [-0.01134949 -0.00043892 0.01178842] w = [0.04381437 0.96809687 1.98808876] w\_new= [0.04370088 0.96809248 1.98820665]

gradient= [-0.01133244 -0.00043835 0.01177079] w = [0.04370088 0.96809248 1.98820665] w\_new= [0.04358755 0.9680881 1.98832435]

gradient= [-0.01131541 -0.00043777 0.01175318] w = [0.04358755 0.9680881 1.98832435] w\_new= [0.0434744 0.96808372 1.98844189]

gradient= [-0.0112984 -0.0004372 0.0117356] w = [0.0434744 0.96808372 1.98844189] w\_new= [0.04336141 0.96807935 1.98855924]

gradient= [-0.01128143 -0.00043663 0.01171805] w = [0.04336141 0.96807935 1.98855924] w\_new= [0.0432486 0.96807498 1.98867642]

gradient= [-0.01126447 -0.00043606 0.01170053] w = [0.0432486 0.96807498 1.98867642] w\_new= [0.04313595 0.96807062 1.98879343]

gradient= [-0.01124755 -0.00043548 0.01168303] w = [0.04313595 0.96807062 1.98879343] w\_new= [0.04302348 0.96806626 1.98891026]

gradient= [-0.01123065 -0.00043491 0.01166556] w = [0.04302348 0.96806626 1.98891026] w\_new= [0.04291117 0.96806191 1.98902691]

gradient= [-0.01121378 -0.00043434 0.01164812] w = [0.04291117 0.96806191 1.98902691] w\_new= [0.04279903 0.96805757 1.98914339]

gradient= [-0.01119693 -0.00043378 0.01163071] w = [0.04279903 0.96805757 1.98914339] w\_new= [0.04268707 0.96805323 1.9892597 ]

gradient= [-0.01118011 -0.00043321 0.01161332] w = [0.04268707 0.96805323 1.9892597 ] w\_new= [0.04257526 0.9680489 1.98937583]

gradient= [-0.01116331 -0.00043264 0.01159595] w = [0.04257526 0.9680489 1.98937583] w\_new= [0.04246363 0.96804457 1.98949179]

gradient= [-0.01114655 -0.00043207 0.01157862] w = [0.04246363 0.96804457 1.98949179] w\_new= [0.04235217 0.96804025 1.98960758]

gradient= [-0.0111298 -0.00043151 0.01156131] w = [0.04235217 0.96804025 1.98960758] w\_new= [0.04224087 0.96803594 1.98972319]

gradient= [-0.01111308 -0.00043094 0.01154403] w = [0.04224087 0.96803594 1.98972319] w\_new= [0.04212974 0.96803163 1.98983863]

gradient= [-0.01109639 -0.00043038 0.01152677] w = [0.04212974 0.96803163 1.98983863] w\_new= [0.04201877 0.96802733 1.9899539 ]

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gradient= [-0.01106309 -0.00042925 0.01149234] w = [0.04190798 0.96802303 1.990069 ] w\_new= [0.04179734 0.96801874 1.99018392]

gradient= [-0.01104647 -0.00042869 0.01147516] w = [0.04179734 0.96801874 1.99018392] w\_new= [0.04168688 0.96801445 1.99029867]

gradient= [-0.01102988 -0.00042813 0.01145801] w = [0.04168688 0.96801445 1.99029867] w\_new= [0.04157658 0.96801017 1.99041325]

gradient= [-0.01101332 -0.00042757 0.01144089] w = [0.04157658 0.96801017 1.99041325] w\_new= [0.04146645 0.96800589 1.99052766]

gradient= [-0.01099678 -0.00042701 0.01142379] w = [0.04146645 0.96800589 1.99052766] w\_new= [0.04135648 0.96800162 1.9906419 ]

gradient= [-0.01098027 -0.00042645 0.01140672] w = [0.04135648 0.96800162 1.9906419 ] w\_new= [0.04124668 0.96799736 1.99075597]

gradient= [-0.01096378 -0.00042589 0.01138968] w = [0.04124668 0.96799736 1.99075597] w\_new= [0.04113704 0.9679931 1.99086986]

gradient= [-0.01094732 -0.00042534 0.01137266] w = [0.04113704 0.9679931 1.99086986] w\_new= [0.04102757 0.96798884 1.99098359]

gradient= [-0.01093089 -0.00042478 0.01135567] w = [0.04102757 0.96798884 1.99098359] w\_new= [0.04091826 0.9679846 1.99109715]

gradient= [-0.01091448 -0.00042423 0.0113387 ] w = [0.04091826 0.9679846 1.99109715] w\_new= [0.04080911 0.96798035 1.99121053]

gradient= [-0.01089809 -0.00042367 0.01132176] w = [0.04080911 0.96798035 1.99121053] w\_new= [0.04070013 0.96797612 1.99132375]

gradient= [-0.01088173 -0.00042312 0.01130485] w = [0.04070013 0.96797612 1.99132375] w\_new= [0.04059131 0.96797189 1.9914368 ]

gradient= [-0.0108654 -0.00042256 0.01128796] w = [0.04059131 0.96797189 1.9914368 ] w\_new= [0.04048266 0.96796766 1.99154968]

gradient= [-0.01084909 -0.00042201 0.0112711 ] w = [0.04048266 0.96796766 1.99154968] w\_new= [0.04037417 0.96796344 1.99166239]

gradient= [-0.0108328 -0.00042146 0.01125426] w = [0.04037417 0.96796344 1.99166239] w\_new= [0.04026584 0.96795923 1.99177493]

gradient= [-0.01081654 -0.00042091 0.01123745] w = [0.04026584 0.96795923 1.99177493] w\_new= [0.04015768 0.96795502 1.99188731]

gradient= [-0.01080031 -0.00042036 0.01122067] w = [0.04015768 0.96795502 1.99188731] w\_new= [0.04004967 0.96795081 1.99199951]

gradient= [-0.0107841 -0.00041981 0.01120391] w = [0.04004967 0.96795081 1.99199951] w\_new= [0.03994183 0.96794662 1.99211155]

gradient= [-0.01076792 -0.00041926 0.01118717] w = [0.03994183 0.96794662 1.99211155] w\_new= [0.03983415 0.96794242 1.99222342]

gradient= [-0.01075176 -0.00041871 0.01117047] w = [0.03983415 0.96794242 1.99222342] w\_new= [0.03972664 0.96793824 1.99233513]

gradient= [-0.01073562 -0.00041816 0.01115379] w = [0.03972664 0.96793824 1.99233513] w\_new= [0.03961928 0.96793405 1.99244667]

gradient= [-0.01071951 -0.00041762 0.01113713] w = [0.03961928 0.96793405 1.99244667] w\_new= [0.03951208 0.96792988 1.99255804]

gradient= [-0.01070343 -0.00041707 0.0111205 ] w = [0.03951208 0.96792988 1.99255804] w\_new= [0.03940505 0.96792571 1.99266924]

gradient= [-0.01068737 -0.00041653 0.01110389] w = [0.03940505 0.96792571 1.99266924] w\_new= [0.03929818 0.96792154 1.99278028]

gradient= [-0.01067133 -0.00041598 0.01108731] w = [0.03929818 0.96792154 1.99278028] w\_new= [0.03919146 0.96791738 1.99289116]

gradient= [-0.01065532 -0.00041544 0.01107076] w = [0.03919146 0.96791738 1.99289116] w\_new= [0.03908491 0.96791323 1.99300186]

gradient= [-0.01063934 -0.0004149 0.01105423] w = [0.03908491 0.96791323 1.99300186] w\_new= [0.03897852 0.96790908 1.99311241]

gradient= [-0.01062337 -0.00041435 0.01103773] w = [0.03897852 0.96790908 1.99311241] w\_new= [0.03887228 0.96790494 1.99322278]

gradient= [-0.01060744 -0.00041381 0.01102125] w = [0.03887228 0.96790494 1.99322278] w\_new= [0.03876621 0.9679008 1.993333 ]

gradient= [-0.01059153 -0.00041327 0.0110048 ] w = [0.03876621 0.9679008 1.993333 ] w\_new= [0.03866029 0.96789666 1.99344304]

gradient= [-0.01057564 -0.00041273 0.01098837] w = [0.03866029 0.96789666 1.99344304] w\_new= [0.03855454 0.96789254 1.99355293]

gradient= [-0.01055977 -0.00041219 0.01097197] w = [0.03855454 0.96789254 1.99355293] w\_new= [0.03844894 0.96788841 1.99366265]

gradient= [-0.01054394 -0.00041165 0.01095559] w = [0.03844894 0.96788841 1.99366265] w\_new= [0.0383435 0.9678843 1.9937722]

gradient= [-0.01052812 -0.00041112 0.01093924] w = [0.0383435 0.9678843 1.9937722] w\_new= [0.03823822 0.96788019 1.99388159]

gradient= [-0.01051233 -0.00041058 0.01092291] w = [0.03823822 0.96788019 1.99388159] w\_new= [0.03813309 0.96787608 1.99399082]

gradient= [-0.01049657 -0.00041004 0.01090661] w = [0.03813309 0.96787608 1.99399082] w\_new= [0.03802813 0.96787198 1.99409989]

gradient= [-0.01048082 -0.00040951 0.01089033] w = [0.03802813 0.96787198 1.99409989] w\_new= [0.03792332 0.96786789 1.99420879]

gradient= [-0.01046511 -0.00040897 0.01087408] w = [0.03792332 0.96786789 1.99420879] w\_new= [0.03781867 0.9678638 1.99431753]

gradient= [-0.01044941 -0.00040844 0.01085785] w = [0.03781867 0.9678638 1.99431753] w\_new= [0.03771418 0.96785971 1.99442611]

gradient= [-0.01043375 -0.00040791 0.01084165] w = [0.03771418 0.96785971 1.99442611] w\_new= [0.03760984 0.96785563 1.99453453]

gradient= [-0.0104181 -0.00040737 0.01082547] w = [0.03760984 0.96785563 1.99453453] w\_new= [0.03750566 0.96785156 1.99464278]

gradient= [-0.01040248 -0.00040684 0.01080932] w = [0.03750566 0.96785156 1.99464278] w\_new= [0.03740163 0.96784749 1.99475088]

gradient= [-0.01038688 -0.00040631 0.01079319] w = [0.03740163 0.96784749 1.99475088] w\_new= [0.03729776 0.96784343 1.99485881]

gradient= [-0.01037131 -0.00040578 0.01077709] w = [0.03729776 0.96784343 1.99485881] w\_new= [0.03719405 0.96783937 1.99496658]

gradient= [-0.01035576 -0.00040525 0.01076101] w = [0.03719405 0.96783937 1.99496658] w\_new= [0.03709049 0.96783532 1.99507419]

gradient= [-0.01034024 -0.00040472 0.01074496] w = [0.03709049 0.96783532 1.99507419] w\_new= [0.03698709 0.96783127 1.99518164]

gradient= [-0.01032474 -0.00040419 0.01072893] w = [0.03698709 0.96783127 1.99518164] w\_new= [0.03688384 0.96782723 1.99528893]

gradient= [-0.01030926 -0.00040367 0.01071292] w = [0.03688384 0.96782723 1.99528893] w\_new= [0.03678075 0.96782319 1.99539606]

gradient= [-0.0102938 -0.00040314 0.01069694] w = [0.03678075 0.96782319 1.99539606] w\_new= [0.03667781 0.96781916 1.99550303]

gradient= [-0.01027838 -0.00040261 0.01068099] w = [0.03667781 0.96781916 1.99550303] w\_new= [0.03657503 0.96781513 1.99560984]

gradient= [-0.01026297 -0.00040209 0.01066506] w = [0.03657503 0.96781513 1.99560984] w\_new= [0.0364724 0.96781111 1.99571649]

gradient= [-0.01024759 -0.00040156 0.01064915] w = [0.0364724 0.96781111 1.99571649] w\_new= [0.03636992 0.9678071 1.99582298]

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gradient= [-0.01021689 -0.00040052 0.01061741] w = [0.0362676 0.96780309 1.99592931] w\_new= [0.03616543 0.96779908 1.99603549]

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gradient= [-0.00701282 -0.00028878 0.0073016 ] w = [0.0148003 0.96694192 2.01825779] w\_new= [0.01473017 0.96693903 2.0183308 ]

gradient= [-0.00700239 -0.00028841 0.0072908 ] w = [0.01473017 0.96693903 2.0183308 ] w\_new= [0.01466015 0.96693615 2.01840371]

gradient= [-0.00699199 -0.00028803 0.00728002] w = [0.01466015 0.96693615 2.01840371] w\_new= [0.01459023 0.96693327 2.01847651]

gradient= [-0.0069816 -0.00028766 0.00726926] w = [0.01459023 0.96693327 2.01847651] w\_new= [0.01452041 0.96693039 2.0185492 ]

gradient= [-0.00697122 -0.00028729 0.00725851] w = [0.01452041 0.96693039 2.0185492 ] w\_new= [0.0144507 0.96692752 2.01862179]

gradient= [-0.00696086 -0.00028692 0.00724778] w = [0.0144507 0.96692752 2.01862179] w\_new= [0.01438109 0.96692465 2.01869426]

gradient= [-0.00695052 -0.00028655 0.00723707] w = [0.01438109 0.96692465 2.01869426] w\_new= [0.01431158 0.96692178 2.01876664]

gradient= [-0.00694019 -0.00028618 0.00722637] w = [0.01431158 0.96692178 2.01876664] w\_new= [0.01424218 0.96691892 2.0188389 ]

gradient= [-0.00692987 -0.00028581 0.00721568] w = [0.01424218 0.96691892 2.0188389 ] w\_new= [0.01417288 0.96691606 2.01891106]

gradient= [-0.00691958 -0.00028544 0.00720502] w = [0.01417288 0.96691606 2.01891106] w\_new= [0.01410369 0.96691321 2.01898311]

gradient= [-0.00690929 -0.00028507 0.00719437] w = [0.01410369 0.96691321 2.01898311] w\_new= [0.01403459 0.96691036 2.01905505]

gradient= [-0.00689903 -0.00028471 0.00718373] w = [0.01403459 0.96691036 2.01905505] w\_new= [0.0139656 0.96690751 2.01912689]

gradient= [-0.00688878 -0.00028434 0.00717311] w = [0.0139656 0.96690751 2.01912689] w\_new= [0.01389672 0.96690467 2.01919862]

gradient= [-0.00687854 -0.00028397 0.00716251] w = [0.01389672 0.96690467 2.01919862] w\_new= [0.01382793 0.96690183 2.01927024]

gradient= [-0.00686832 -0.0002836 0.00715192] w = [0.01382793 0.96690183 2.01927024] w\_new= [0.01375925 0.96689899 2.01934176]

gradient= [-0.00685812 -0.00028324 0.00714135] w = [0.01375925 0.96689899 2.01934176] w\_new= [0.01369067 0.96689616 2.01941318]

gradient= [-0.00684793 -0.00028287 0.0071308 ] w = [0.01369067 0.96689616 2.01941318] w\_new= [0.01362219 0.96689333 2.01948448]

gradient= [-0.00683775 -0.00028251 0.00712026] w = [0.01362219 0.96689333 2.01948448] w\_new= [0.01355381 0.9668905 2.01955569]

gradient= [-0.00682759 -0.00028214 0.00710974] w = [0.01355381 0.9668905 2.01955569] w\_new= [0.01348553 0.96688768 2.01962678]

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gradient= [-0.00680732 -0.00028141 0.00708874] w = [0.01341736 0.96688486 2.01969778] w\_new= [0.01334929 0.96688205 2.01976866]

gradient= [-0.00679721 -0.00028105 0.00707826] w = [0.01334929 0.96688205 2.01976866] w\_new= [0.01328131 0.96687924 2.01983945]

gradient= [-0.00678712 -0.00028069 0.0070678 ] w = [0.01328131 0.96687924 2.01983945] w\_new= [0.01321344 0.96687643 2.01991012]

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gradient= [-0.00674688 -0.00027924 0.00702612] w = [0.01301043 0.96686803 2.02012153] w\_new= [0.01294296 0.96686524 2.02019179]

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gradient= [-0.00672685 -0.00027852 0.00700538] w = [0.0128756 0.96686245 2.02026195] w\_new= [0.01280833 0.96685967 2.02033201]

gradient= [-0.00671686 -0.00027816 0.00699503] w = [0.01280833 0.96685967 2.02033201] w\_new= [0.01274116 0.96685689 2.02040196]

gradient= [-0.00670689 -0.0002778 0.00698469] w = [0.01274116 0.96685689 2.02040196] w\_new= [0.01267409 0.96685411 2.0204718 ]

gradient= [-0.00669693 -0.00027745 0.00697437] w = [0.01267409 0.96685411 2.0204718 ] w\_new= [0.01260712 0.96685133 2.02054155]

gradient= [-0.00668698 -0.00027709 0.00696407] w = [0.01260712 0.96685133 2.02054155] w\_new= [0.01254025 0.96684856 2.02061119]

gradient= [-0.00667705 -0.00027673 0.00695378] w = [0.01254025 0.96684856 2.02061119] w\_new= [0.01247348 0.9668458 2.02068072]

gradient= [-0.00666714 -0.00027637 0.00694351] w = [0.01247348 0.9668458 2.02068072] w\_new= [0.01240681 0.96684303 2.02075016]

gradient= [-0.00665724 -0.00027602 0.00693325] w = [0.01240681 0.96684303 2.02075016] w\_new= [0.01234024 0.96684027 2.02081949]

gradient= [-0.00664735 -0.00027566 0.00692301] w = [0.01234024 0.96684027 2.02081949] w\_new= [0.01227376 0.96683751 2.02088872]

gradient= [-0.00663748 -0.00027531 0.00691279] w = [0.01227376 0.96683751 2.02088872] w\_new= [0.01220739 0.96683476 2.02095785]

gradient= [-0.00662762 -0.00027495 0.00690257] w = [0.01220739 0.96683476 2.02095785] w\_new= [0.01214111 0.96683201 2.02102688]

gradient= [-0.00661778 -0.0002746 0.00689238] w = [0.01214111 0.96683201 2.02102688] w\_new= [0.01207493 0.96682927 2.0210958 ]

gradient= [-0.00660796 -0.00027424 0.0068822 ] w = [0.01207493 0.96682927 2.0210958 ] w\_new= [0.01200885 0.96682652 2.02116462]

gradient= [-0.00659815 -0.00027389 0.00687203] w = [0.01200885 0.96682652 2.02116462] w\_new= [0.01194287 0.96682378 2.02123334]

gradient= [-0.00658835 -0.00027353 0.00686189] w = [0.01194287 0.96682378 2.02123334] w\_new= [0.01187699 0.96682105 2.02130196]

gradient= [-0.00657857 -0.00027318 0.00685175] w = [0.01187699 0.96682105 2.02130196] w\_new= [0.0118112 0.96681832 2.02137048]

gradient= [-0.0065688 -0.00027283 0.00684163] w = [0.0118112 0.96681832 2.02137048] w\_new= [0.01174552 0.96681559 2.02143889]

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gradient= [-0.00654932 -0.00027213 0.00682144] w = [0.01167993 0.96681286 2.02150721] w\_new= [0.01161443 0.96681014 2.02157542]

gradient= [-0.00653959 -0.00027177 0.00681137] w = [0.01161443 0.96681014 2.02157542] w\_new= [0.01154904 0.96680743 2.02164354]

gradient= [-0.00652989 -0.00027142 0.00680131] w = [0.01154904 0.96680743 2.02164354] w\_new= [0.01148374 0.96680471 2.02171155]

gradient= [-0.00652019 -0.00027107 0.00679127] w = [0.01148374 0.96680471 2.02171155] w\_new= [0.01141854 0.966802 2.02177946]

gradient= [-0.00651051 -0.00027072 0.00678124] w = [0.01141854 0.966802 2.02177946] w\_new= [0.01135343 0.96679929 2.02184728]

gradient= [-0.00650085 -0.00027037 0.00677123] w = [0.01135343 0.96679929 2.02184728] w\_new= [0.01128842 0.96679659 2.02191499]

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gradient= [-0.00647195 -0.00026933 0.00674128] w = [0.01115869 0.96679119 2.02205011] w\_new= [0.01109397 0.9667885 2.02211753]

gradient= [-0.00646234 -0.00026898 0.00673132] w = [0.01109397 0.9667885 2.02211753] w\_new= [0.01102935 0.96678581 2.02218484]

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gradient= [-0.00644317 -0.00026829 0.00671146] w = [0.01096482 0.96678312 2.02225205] w\_new= [0.01090039 0.96678044 2.02231917]

gradient= [-0.00643361 -0.00026794 0.00670156] w = [0.01090039 0.96678044 2.02231917] w\_new= [0.01083606 0.96677776 2.02238618]

gradient= [-0.00642406 -0.0002676 0.00669166] w = [0.01083606 0.96677776 2.02238618] w\_new= [0.01077182 0.96677508 2.0224531 ]

gradient= [-0.00641453 -0.00026725 0.00668178] w = [0.01077182 0.96677508 2.0224531 ] w\_new= [0.01070767 0.96677241 2.02251992]

gradient= [-0.00640501 -0.00026691 0.00667192] w = [0.01070767 0.96677241 2.02251992] w\_new= [0.01064362 0.96676974 2.02258664]

gradient= [-0.00639551 -0.00026656 0.00666207] w = [0.01064362 0.96676974 2.02258664] w\_new= [0.01057966 0.96676708 2.02265326]

gradient= [-0.00638602 -0.00026622 0.00665224] w = [0.01057966 0.96676708 2.02265326] w\_new= [0.0105158 0.96676442 2.02271978]

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gradient= [-0.00635763 -0.00026519 0.00662283] w = [0.01038837 0.9667591 2.02285253] w\_new= [0.01032479 0.96675645 2.02291876]

gradient= [-0.0063482 -0.00026485 0.00661305] w = [0.01032479 0.96675645 2.02291876] w\_new= [0.01026131 0.9667538 2.02298489]

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gradient= [-0.00632938 -0.00026417 0.00659355] w = [0.01019792 0.96675116 2.02305092] w\_new= [0.01013463 0.96674851 2.02311686]

gradient= [-0.00631999 -0.00026383 0.00658382] w = [0.01013463 0.96674851 2.02311686] w\_new= [0.01007143 0.96674588 2.0231827 ]

gradient= [-0.00631061 -0.00026349 0.0065741 ] w = [0.01007143 0.96674588 2.0231827 ] w\_new= [0.01000832 0.96674324 2.02324844]

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gradient= [-0.00622686 -0.00026045 0.00648731] w = [0.00950683 0.96672228 2.02377088] w\_new= [0.00944456 0.96671968 2.02383576]

gradient= [-0.00621763 -0.00026011 0.00647774] w = [0.00944456 0.96671968 2.02383576] w\_new= [0.00938239 0.96671708 2.02390053]

gradient= [-0.0062084 -0.00025978 0.00646818] w = [0.00938239 0.96671708 2.02390053] w\_new= [0.0093203 0.96671448 2.02396522]

gradient= [-0.0061992 -0.00025944 0.00645864] w = [0.0093203 0.96671448 2.02396522] w\_new= [0.00925831 0.96671189 2.0240298 ]

gradient= [-0.00619 -0.00025911 0.00644911] w = [0.00925831 0.96671189 2.0240298 ] w\_new= [0.00919641 0.9667093 2.02409429]

gradient= [-0.00618082 -0.00025877 0.00643959] w = [0.00919641 0.9667093 2.02409429] w\_new= [0.0091346 0.96670671 2.02415869]

gradient= [-0.00617166 -0.00025844 0.00643009] w = [0.0091346 0.96670671 2.02415869] w\_new= [0.00907289 0.96670412 2.02422299]

gradient= [-0.0061625 -0.00025811 0.00642061] w = [0.00907289 0.96670412 2.02422299] w\_new= [0.00901126 0.96670154 2.0242872 ]

gradient= [-0.00615337 -0.00025777 0.00641114] w = [0.00901126 0.96670154 2.0242872 ] w\_new= [0.00894973 0.96669896 2.02435131]

gradient= [-0.00614424 -0.00025744 0.00640168] w = [0.00894973 0.96669896 2.02435131] w\_new= [0.00888829 0.96669639 2.02441533]

gradient= [-0.00613513 -0.00025711 0.00639224] w = [0.00888829 0.96669639 2.02441533] w\_new= [0.00882693 0.96669382 2.02447925]

gradient= [-0.00612603 -0.00025678 0.00638281] w = [0.00882693 0.96669382 2.02447925] w\_new= [0.00876567 0.96669125 2.02454308]

gradient= [-0.00611695 -0.00025645 0.0063734 ] w = [0.00876567 0.96669125 2.02454308] w\_new= [0.0087045 0.96668869 2.02460681]

gradient= [-0.00610788 -0.00025612 0.00636399] w = [0.0087045 0.96668869 2.02460681] w\_new= [0.00864343 0.96668613 2.02467045]

gradient= [-0.00609882 -0.00025579 0.00635461] w = [0.00864343 0.96668613 2.02467045] w\_new= [0.00858244 0.96668357 2.024734 ]

gradient= [-0.00608978 -0.00025546 0.00634524] w = [0.00858244 0.96668357 2.024734 ] w\_new= [0.00852154 0.96668101 2.02479745]

gradient= [-0.00608075 -0.00025513 0.00633588] w = [0.00852154 0.96668101 2.02479745] w\_new= [0.00846073 0.96667846 2.02486081]

gradient= [-0.00607174 -0.0002548 0.00632653] w = [0.00846073 0.96667846 2.02486081] w\_new= [0.00840001 0.96667591 2.02492407]

gradient= [-0.00606273 -0.00025447 0.0063172 ] w = [0.00840001 0.96667591 2.02492407] w\_new= [0.00833939 0.96667337 2.02498724]

gradient= [-0.00605375 -0.00025414 0.00630789] w = [0.00833939 0.96667337 2.02498724] w\_new= [0.00827885 0.96667083 2.02505032]

gradient= [-0.00604477 -0.00025381 0.00629859] w = [0.00827885 0.96667083 2.02505032] w\_new= [0.0082184 0.96666829 2.02511331]

gradient= [-0.00603581 -0.00025349 0.0062893 ] w = [0.0082184 0.96666829 2.02511331] w\_new= [0.00815804 0.96666575 2.0251762 ]

gradient= [-0.00602686 -0.00025316 0.00628002] w = [0.00815804 0.96666575 2.0251762 ] w\_new= [0.00809778 0.96666322 2.025239 ]

gradient= [-0.00601793 -0.00025284 0.00627076] w = [0.00809778 0.96666322 2.025239 ] w\_new= [0.0080376 0.96666069 2.02530171]

gradient= [-0.00600901 -0.00025251 0.00626152] w = [0.0080376 0.96666069 2.02530171] w\_new= [0.00797751 0.96665817 2.02536432]

gradient= [-0.0060001 -0.00025218 0.00625228] w = [0.00797751 0.96665817 2.02536432] w\_new= [0.0079175 0.96665565 2.02542685]

gradient= [-0.00599121 -0.00025186 0.00624307] w = [0.0079175 0.96665565 2.02542685] w\_new= [0.00785759 0.96665313 2.02548928]

gradient= [-0.00598233 -0.00025153 0.00623386] w = [0.00785759 0.96665313 2.02548928] w\_new= [0.00779777 0.96665061 2.02555162]

gradient= [-0.00597346 -0.00025121 0.00622467] w = [0.00779777 0.96665061 2.02555162] w\_new= [0.00773803 0.9666481 2.02561386]

gradient= [-0.00596461 -0.00025089 0.00621549] w = [0.00773803 0.9666481 2.02561386] w\_new= [0.00767839 0.96664559 2.02567602]

gradient= [-0.00595577 -0.00025056 0.00620633] w = [0.00767839 0.96664559 2.02567602] w\_new= [0.00761883 0.96664309 2.02573808]

gradient= [-0.00594694 -0.00025024 0.00619718] w = [0.00761883 0.96664309 2.02573808] w\_new= [0.00755936 0.96664058 2.02580005]

gradient= [-0.00593812 -0.00024992 0.00618804] w = [0.00755936 0.96664058 2.02580005] w\_new= [0.00749998 0.96663809 2.02586193]

gradient= [-0.00592932 -0.0002496 0.00617892] w = [0.00749998 0.96663809 2.02586193] w\_new= [0.00744069 0.96663559 2.02592372]

gradient= [-0.00592054 -0.00024928 0.00616981] w = [0.00744069 0.96663559 2.02592372] w\_new= [0.00738148 0.9666331 2.02598542]

gradient= [-0.00591176 -0.00024895 0.00616072] w = [0.00738148 0.9666331 2.02598542] w\_new= [0.00732236 0.96663061 2.02604703]

gradient= [-0.005903 -0.00024863 0.00615164] w = [0.00732236 0.96663061 2.02604703] w\_new= [0.00726333 0.96662812 2.02610854]

gradient= [-0.00589425 -0.00024831 0.00614257] w = [0.00726333 0.96662812 2.02610854] w\_new= [0.00720439 0.96662564 2.02616997]

gradient= [-0.00588552 -0.00024799 0.00613351] w = [0.00720439 0.96662564 2.02616997] w\_new= [0.00714554 0.96662316 2.02623131]

gradient= [-0.0058768 -0.00024767 0.00612447] w = [0.00714554 0.96662316 2.02623131] w\_new= [0.00708677 0.96662068 2.02629255]

gradient= [-0.00586809 -0.00024735 0.00611545] w = [0.00708677 0.96662068 2.02629255] w\_new= [0.00702809 0.96661821 2.0263537 ]

gradient= [-0.0058594 -0.00024704 0.00610643] w = [0.00702809 0.96661821 2.0263537 ] w\_new= [0.00696949 0.96661574 2.02641477]

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gradient= [-0.00584204 -0.0002464 0.00608845] w = [0.00691099 0.96661327 2.02647574] w\_new= [0.00685257 0.96661081 2.02653663]

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gradient= [-0.00496383 -0.00021385 0.00517769] w = [9.76663090e-04 9.66360393e-01 2.03266294e+00] w\_new= [9.27024749e-04 9.66358255e-01 2.03271472e+00]

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gradient= [-0.00492726 -0.00021248 0.00513974] w = [7.29203986e-04 9.66349728e-01 2.03292107e+00] w\_new= [6.79931396e-04 9.66347603e-01 2.03297247e+00]

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gradient= [-0.00490545 -0.00021166 0.00511711] w = [5.81604573e-04 9.66343362e-01 2.03307503e+00] w\_new= [5.32550121e-04 9.66341245e-01 2.03312620e+00]

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gradient= [-0.00413289 -0.00018232 0.00431521] w = [-0.00465154 0.96611513 2.03853641] w\_new= [-0.00469287 0.96611331 2.03857956]

gradient= [-0.0041268 -0.00018208 0.00430888] w = [-0.00469287 0.96611331 2.03857956] w\_new= [-0.00473414 0.96611149 2.03862265]

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gradient= [-0.00410251 -0.00018115 0.00428365] w = [-0.00485758 0.96610604 2.03875154] w\_new= [-0.0048986 0.96610423 2.03879437]

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gradient= [-0.0037717 -0.00016834 0.00394004] w = [-0.00710205 0.96600642 2.04109563] w\_new= [-0.00713976 0.96600473 2.04113503]

gradient= [-0.00376615 -0.00016812 0.00393427] w = [-0.00713976 0.96600473 2.04113503] w\_new= [-0.00717742 0.96600305 2.04117437]

gradient= [-0.0037606 -0.00016791 0.00392851] w = [-0.00717742 0.96600305 2.04117437] w\_new= [-0.00721503 0.96600137 2.04121366]

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gradient= [-0.00372199 -0.0001664 0.00388839] w = [-0.00743951 0.96599134 2.04144816] w\_new= [-0.00747673 0.96598968 2.04148705]

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gradient= [-0.00360856 -0.00016197 0.00377053] w = [-0.00820972 0.96595684 2.04225287] w\_new= [-0.0082458 0.96595522 2.04229058]

gradient= [-0.00360325 -0.00016176 0.003765 ] w = [-0.0082458 0.96595522 2.04229058] w\_new= [-0.00828184 0.96595361 2.04232823]

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gradient= [-0.00358735 -0.00016113 0.00374849] w = [-0.00835374 0.96595038 2.04240336] w\_new= [-0.00838962 0.96594877 2.04244085]

gradient= [-0.00358207 -0.00016093 0.003743 ] w = [-0.00838962 0.96594877 2.04244085] w\_new= [-0.00842544 0.96594716 2.04247828]

gradient= [-0.0035768 -0.00016072 0.00373752] w = [-0.00842544 0.96594716 2.04247828] w\_new= [-0.0084612 0.96594555 2.04251565]

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gradient= [-0.00356627 -0.00016031 0.00372658] w = [-0.00849692 0.96594394 2.04255297] w\_new= [-0.00853258 0.96594234 2.04259024]

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gradient= [-0.00344746 -0.00015563 0.00360309] w = [-0.00930402 0.96590759 2.04339642] w\_new= [-0.00933849 0.96590603 2.04343246]

gradient= [-0.00344239 -0.00015543 0.00359782] w = [-0.00933849 0.96590603 2.04343246] w\_new= [-0.00937291 0.96590448 2.04346843]

gradient= [-0.00343732 -0.00015523 0.00359255] w = [-0.00937291 0.96590448 2.04346843] w\_new= [-0.00940729 0.96590293 2.04350436]

gradient= [-0.00343226 -0.00015503 0.0035873 ] w = [-0.00940729 0.96590293 2.04350436] w\_new= [-0.00944161 0.96590138 2.04354023]

gradient= [-0.00342721 -0.00015483 0.00358205] w = [-0.00944161 0.96590138 2.04354023] w\_new= [-0.00947588 0.96589983 2.04357605]

gradient= [-0.00342217 -0.00015463 0.0035768 ] w = [-0.00947588 0.96589983 2.04357605] w\_new= [-0.0095101 0.96589828 2.04361182]

gradient= [-0.00341713 -0.00015444 0.00357157] w = [-0.0095101 0.96589828 2.04361182] w\_new= [-0.00954428 0.96589674 2.04364754]

gradient= [-0.0034121 -0.00015424 0.00356634] w = [-0.00954428 0.96589674 2.04364754] w\_new= [-0.0095784 0.9658952 2.0436832]

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gradient= [-0.00329848 -0.00014974 0.00344822] w = [-0.01031649 0.96586176 2.04445472] w\_new= [-0.01034947 0.96586026 2.04448921]

gradient= [-0.00329362 -0.00014955 0.00344317] w = [-0.01034947 0.96586026 2.04448921] w\_new= [-0.01038241 0.96585877 2.04452364]

gradient= [-0.00328878 -0.00014935 0.00343813] w = [-0.01038241 0.96585877 2.04452364] w\_new= [-0.01041529 0.96585728 2.04455802]

gradient= [-0.00328394 -0.00014916 0.0034331 ] w = [-0.01041529 0.96585728 2.04455802] w\_new= [-0.01044813 0.96585578 2.04459235]

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gradient= [-0.00327429 -0.00014878 0.00342306] w = [-0.01048092 0.96585429 2.04462663] w\_new= [-0.01051367 0.96585281 2.04466086]

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gradient= [-0.00326466 -0.0001484 0.00341305] w = [-0.01054636 0.96585132 2.04469504] w\_new= [-0.01057901 0.96584984 2.04472917]

gradient= [-0.00325986 -0.0001482 0.00340806] w = [-0.01057901 0.96584984 2.04472917] w\_new= [-0.01061161 0.96584835 2.04476325]

gradient= [-0.00325506 -0.00014801 0.00340308] w = [-0.01061161 0.96584835 2.04476325] w\_new= [-0.01064416 0.96584687 2.04479728]

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gradient= [-0.00324549 -0.00014763 0.00339313] w = [-0.01067666 0.9658454 2.04483126] w\_new= [-0.01070912 0.96584392 2.0448652 ]

gradient= [-0.00324072 -0.00014744 0.00338816] w = [-0.01070912 0.96584392 2.0448652 ] w\_new= [-0.01074152 0.96584245 2.04489908]

gradient= [-0.00323595 -0.00014725 0.0033832 ] w = [-0.01074152 0.96584245 2.04489908] w\_new= [-0.01077388 0.96584097 2.04493291]

gradient= [-0.00323119 -0.00014706 0.00337826] w = [-0.01077388 0.96584097 2.04493291] w\_new= [-0.01080619 0.9658395 2.04496669]

gradient= [-0.00322644 -0.00014687 0.00337331] w = [-0.01080619 0.9658395 2.04496669] w\_new= [-0.01083846 0.96583803 2.04500043]

gradient= [-0.00322169 -0.00014669 0.00336838] w = [-0.01083846 0.96583803 2.04500043] w\_new= [-0.01087068 0.96583657 2.04503411]

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gradient= [-0.00321222 -0.00014631 0.00335853] w = [-0.01090285 0.9658351 2.04506774] w\_new= [-0.01093497 0.96583364 2.04510133]

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gradient= [-0.00314671 -0.0001437 0.00329041] w = [-0.01134828 0.96581479 2.04553349] w\_new= [-0.01137975 0.96581335 2.0455664 ]

gradient= [-0.00314209 -0.00014351 0.0032856 ] w = [-0.01137975 0.96581335 2.0455664 ] w\_new= [-0.01141117 0.96581192 2.04559925]

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gradient= [-0.00311447 -0.00014241 0.00325687] w = [-0.01156758 0.96580477 2.04576281] w\_new= [-0.01159873 0.96580334 2.04579538]

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gradient= [-0.00307349 -0.00014077 0.00321426] w = [-0.01184624 0.96579202 2.04605422] w\_new= [-0.01187698 0.96579061 2.04608637]

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gradient= [-0.00306446 -0.0001404 0.00320487] w = [-0.01190767 0.9657892 2.04611846] w\_new= [-0.01193831 0.9657878 2.04615051]

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gradient= [-0.00303306 -0.00013914 0.00317221] w = [-0.01212124 0.96577941 2.04634182] w\_new= [-0.01215157 0.96577802 2.04637354]

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gradient= [-0.00301971 -0.00013861 0.00315832] w = [-0.01221209 0.96577525 2.04643685] w\_new= [-0.01224229 0.96577386 2.04646843]

gradient= [-0.00301527 -0.00013843 0.0031537 ] w = [-0.01224229 0.96577386 2.04646843] w\_new= [-0.01227244 0.96577247 2.04649997]

gradient= [-0.00301084 -0.00013825 0.00314909] w = [-0.01227244 0.96577247 2.04649997] w\_new= [-0.01230255 0.96577109 2.04653146]

gradient= [-0.00300641 -0.00013807 0.00314448] w = [-0.01230255 0.96577109 2.04653146] w\_new= [-0.01233262 0.96576971 2.0465629 ]

gradient= [-0.00300199 -0.0001379 0.00313989] w = [-0.01233262 0.96576971 2.0465629 ] w\_new= [-0.01236264 0.96576833 2.0465943 ]

gradient= [-0.00299758 -0.00013772 0.0031353 ] w = [-0.01236264 0.96576833 2.0465943 ] w\_new= [-0.01239261 0.96576696 2.04662566]

gradient= [-0.00299317 -0.00013754 0.00313071] w = [-0.01239261 0.96576696 2.04662566] w\_new= [-0.01242254 0.96576558 2.04665696]

gradient= [-0.00298877 -0.00013736 0.00312614] w = [-0.01242254 0.96576558 2.04665696] w\_new= [-0.01245243 0.96576421 2.04668822]

gradient= [-0.00298438 -0.00013719 0.00312157] w = [-0.01245243 0.96576421 2.04668822] w\_new= [-0.01248227 0.96576283 2.04671944]

gradient= [-0.00297999 -0.00013701 0.003117 ] w = [-0.01248227 0.96576283 2.04671944] w\_new= [-0.01251207 0.96576146 2.04675061]

gradient= [-0.00297561 -0.00013683 0.00311245] w = [-0.01251207 0.96576146 2.04675061] w\_new= [-0.01254183 0.9657601 2.04678174]

gradient= [-0.00297124 -0.00013666 0.0031079 ] w = [-0.01254183 0.9657601 2.04678174] w\_new= [-0.01257154 0.96575873 2.04681281]

gradient= [-0.00296687 -0.00013648 0.00310336] w = [-0.01257154 0.96575873 2.04681281] w\_new= [-0.01260121 0.96575736 2.04684385]

gradient= [-0.00296251 -0.00013631 0.00309882] w = [-0.01260121 0.96575736 2.04684385] w\_new= [-0.01263084 0.965756 2.04687484]

gradient= [-0.00295816 -0.00013613 0.00309429] w = [-0.01263084 0.965756 2.04687484] w\_new= [-0.01266042 0.96575464 2.04690578]

gradient= [-0.00295381 -0.00013596 0.00308977] w = [-0.01266042 0.96575464 2.04690578] w\_new= [-0.01268996 0.96575328 2.04693668]

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gradient= [-0.00291497 -0.00013439 0.00304936] w = [-0.0129247 0.96574247 2.04718224] w\_new= [-0.01295385 0.96574112 2.04721273]

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gradient= [-0.00241869 -0.0001141 0.00253279] w = [-0.01630419 0.96558492 2.05071926] w\_new= [-0.01632837 0.96558378 2.05074459]

gradient= [-0.00241514 -0.00011395 0.00252909] w = [-0.01632837 0.96558378 2.05074459] w\_new= [-0.01635252 0.96558264 2.05076988]

gradient= [-0.0024116 -0.00011381 0.0025254 ] w = [-0.01635252 0.96558264 2.05076988] w\_new= [-0.01637664 0.9655815 2.05079514]

gradient= [-0.00240806 -0.00011366 0.00252172] w = [-0.01637664 0.9655815 2.05079514] w\_new= [-0.01640072 0.96558037 2.05082035]

gradient= [-0.00240452 -0.00011351 0.00251804] w = [-0.01640072 0.96558037 2.05082035] w\_new= [-0.01642477 0.96557923 2.05084553]

gradient= [-0.002401 -0.00011337 0.00251436] w = [-0.01642477 0.96557923 2.05084553] w\_new= [-0.01644878 0.9655781 2.05087068]

gradient= [-0.00239747 -0.00011322 0.00251069] w = [-0.01644878 0.9655781 2.05087068] w\_new= [-0.01647275 0.96557697 2.05089578]

gradient= [-0.00239395 -0.00011307 0.00250703] w = [-0.01647275 0.96557697 2.05089578] w\_new= [-0.01649669 0.96557584 2.05092085]

gradient= [-0.00239044 -0.00011293 0.00250337] w = [-0.01649669 0.96557584 2.05092085] w\_new= [-0.0165206 0.96557471 2.05094589]

gradient= [-0.00238693 -0.00011278 0.00249972] w = [-0.0165206 0.96557471 2.05094589] w\_new= [-0.01654446 0.96557358 2.05097089]

gradient= [-0.00238343 -0.00011264 0.00249607] w = [-0.01654446 0.96557358 2.05097089] w\_new= [-0.0165683 0.96557245 2.05099585]

gradient= [-0.00237993 -0.00011249 0.00249243] w = [-0.0165683 0.96557245 2.05099585] w\_new= [-0.0165921 0.96557133 2.05102077]

gradient= [-0.00237644 -0.00011235 0.00248879] w = [-0.0165921 0.96557133 2.05102077] w\_new= [-0.01661586 0.9655702 2.05104566]

gradient= [-0.00237296 -0.0001122 0.00248516] w = [-0.01661586 0.9655702 2.05104566] w\_new= [-0.01663959 0.96556908 2.05107051]

gradient= [-0.00236947 -0.00011206 0.00248153] w = [-0.01663959 0.96556908 2.05107051] w\_new= [-0.01666329 0.96556796 2.05109532]

gradient= [-0.002366 -0.00011191 0.00247791] w = [-0.01666329 0.96556796 2.05109532] w\_new= [-0.01668695 0.96556684 2.0511201 ]

gradient= [-0.00236253 -0.00011177 0.00247429] w = [-0.01668695 0.96556684 2.0511201 ] w\_new= [-0.01671057 0.96556573 2.05114485]

gradient= [-0.00235906 -0.00011162 0.00247068] w = [-0.01671057 0.96556573 2.05114485] w\_new= [-0.01673416 0.96556461 2.05116955]

gradient= [-0.0023556 -0.00011148 0.00246708] w = [-0.01673416 0.96556461 2.05116955] w\_new= [-0.01675772 0.96556349 2.05119422]

gradient= [-0.00235214 -0.00011134 0.00246348] w = [-0.01675772 0.96556349 2.05119422] w\_new= [-0.01678124 0.96556238 2.05121886]

gradient= [-0.00234869 -0.00011119 0.00245988] w = [-0.01678124 0.96556238 2.05121886] w\_new= [-0.01680473 0.96556127 2.05124346]

gradient= [-0.00234525 -0.00011105 0.0024563 ] w = [-0.01680473 0.96556127 2.05124346] w\_new= [-0.01682818 0.96556016 2.05126802]

gradient= [-0.0023418 -0.00011091 0.00245271] w = [-0.01682818 0.96556016 2.05126802] w\_new= [-0.0168516 0.96555905 2.05129255]

gradient= [-0.00233837 -0.00011076 0.00244913] w = [-0.0168516 0.96555905 2.05129255] w\_new= [-0.01687498 0.96555794 2.05131704]

gradient= [-0.00233494 -0.00011062 0.00244556] w = [-0.01687498 0.96555794 2.05131704] w\_new= [-0.01689833 0.96555684 2.0513415 ]

gradient= [-0.00233151 -0.00011048 0.00244199] w = [-0.01689833 0.96555684 2.0513415 ] w\_new= [-0.01692165 0.96555573 2.05136592]

gradient= [-0.00232809 -0.00011034 0.00243843] w = [-0.01692165 0.96555573 2.05136592] w\_new= [-0.01694493 0.96555463 2.0513903 ]

gradient= [-0.00232468 -0.00011019 0.00243487] w = [-0.01694493 0.96555463 2.0513903 ] w\_new= [-0.01696817 0.96555353 2.05141465]

gradient= [-0.00232127 -0.00011005 0.00243132] w = [-0.01696817 0.96555353 2.05141465] w\_new= [-0.01699139 0.96555242 2.05143896]

gradient= [-0.00231786 -0.00010991 0.00242777] w = [-0.01699139 0.96555242 2.05143896] w\_new= [-0.01701456 0.96555133 2.05146324]

gradient= [-0.00231446 -0.00010977 0.00242423] w = [-0.01701456 0.96555133 2.05146324] w\_new= [-0.01703771 0.96555023 2.05148748]

gradient= [-0.00231107 -0.00010963 0.00242069] w = [-0.01703771 0.96555023 2.05148748] w\_new= [-0.01706082 0.96554913 2.05151169]

gradient= [-0.00230768 -0.00010949 0.00241716] w = [-0.01706082 0.96554913 2.05151169] w\_new= [-0.0170839 0.96554804 2.05153586]

gradient= [-0.00230429 -0.00010934 0.00241363] w = [-0.0170839 0.96554804 2.05153586] w\_new= [-0.01710694 0.96554694 2.05156 ]

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gradient= [-0.00229753 -0.00010906 0.0024066 ] w = [-0.01712995 0.96554585 2.0515841 ] w\_new= [-0.01715292 0.96554476 2.05160816]

gradient= [-0.00229416 -0.00010892 0.00240309] w = [-0.01715292 0.96554476 2.05160816] w\_new= [-0.01717587 0.96554367 2.05163219]

gradient= [-0.0022908 -0.00010878 0.00239958] w = [-0.01717587 0.96554367 2.05163219] w\_new= [-0.01719877 0.96554258 2.05165619]

gradient= [-0.00228744 -0.00010864 0.00239608] w = [-0.01719877 0.96554258 2.05165619] w\_new= [-0.01722165 0.9655415 2.05168015]

gradient= [-0.00228408 -0.0001085 0.00239258] w = [-0.01722165 0.9655415 2.05168015] w\_new= [-0.01724449 0.96554041 2.05170408]

gradient= [-0.00228073 -0.00010836 0.00238909] w = [-0.01724449 0.96554041 2.05170408] w\_new= [-0.0172673 0.96553933 2.05172797]

gradient= [-0.00227739 -0.00010822 0.00238561] w = [-0.0172673 0.96553933 2.05172797] w\_new= [-0.01729007 0.96553825 2.05175182]

gradient= [-0.00227405 -0.00010808 0.00238213] w = [-0.01729007 0.96553825 2.05175182] w\_new= [-0.01731281 0.96553717 2.05177564]

gradient= [-0.00227071 -0.00010794 0.00237865] w = [-0.01731281 0.96553717 2.05177564] w\_new= [-0.01733552 0.96553609 2.05179943]

gradient= [-0.00226738 -0.0001078 0.00237518] w = [-0.01733552 0.96553609 2.05179943] w\_new= [-0.01735819 0.96553501 2.05182318]

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gradient= [-0.00225411 -0.00010725 0.00236135] w = [-0.01742601 0.96553178 2.05189423] w\_new= [-0.01744855 0.96553071 2.05191784]

gradient= [-0.0022508 -0.00010711 0.00235791] w = [-0.01744855 0.96553071 2.05191784] w\_new= [-0.01747106 0.96552964 2.05194142]

gradient= [-0.0022475 -0.00010697 0.00235447] w = [-0.01747106 0.96552964 2.05194142] w\_new= [-0.01749354 0.96552857 2.05196497]

gradient= [-0.0022442 -0.00010683 0.00235104] w = [-0.01749354 0.96552857 2.05196497] w\_new= [-0.01751598 0.9655275 2.05198848]

gradient= [-0.00224091 -0.0001067 0.00234761] w = [-0.01751598 0.9655275 2.05198848] w\_new= [-0.01753839 0.96552643 2.05201195]

gradient= [-0.00223762 -0.00010656 0.00234418] w = [-0.01753839 0.96552643 2.05201195] w\_new= [-0.01756077 0.96552537 2.0520354 ]

gradient= [-0.00223434 -0.00010642 0.00234076] w = [-0.01756077 0.96552537 2.0520354 ] w\_new= [-0.01758311 0.9655243 2.0520588 ]

gradient= [-0.00223107 -0.00010628 0.00233735] w = [-0.01758311 0.9655243 2.0520588 ] w\_new= [-0.01760542 0.96552324 2.05208218]

gradient= [-0.00222779 -0.00010615 0.00233394] w = [-0.01760542 0.96552324 2.05208218] w\_new= [-0.0176277 0.96552218 2.05210552]

gradient= [-0.00222453 -0.00010601 0.00233054] w = [-0.0176277 0.96552218 2.05210552] w\_new= [-0.01764994 0.96552112 2.05212882]

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gradient= [-0.00221801 -0.00010574 0.00232374] w = [-0.01767216 0.96552006 2.05215209] w\_new= [-0.01769434 0.965519 2.05217533]

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gradient= [-0.00221151 -0.00010546 0.00231697] w = [-0.01771648 0.96551795 2.05219853] w\_new= [-0.0177386 0.96551689 2.0522217 ]

gradient= [-0.00220826 -0.00010533 0.00231359] w = [-0.0177386 0.96551689 2.0522217 ] w\_new= [-0.01776068 0.96551584 2.05224484]

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gradient= [-0.00219856 -0.00010492 0.00230348] w = [-0.01780475 0.96551374 2.05229101] w\_new= [-0.01782673 0.96551269 2.05231405]

gradient= [-0.00219534 -0.00010478 0.00230012] w = [-0.01782673 0.96551269 2.05231405] w\_new= [-0.01784869 0.96551164 2.05233705]

gradient= [-0.00219212 -0.00010465 0.00229677] w = [-0.01784869 0.96551164 2.05233705] w\_new= [-0.01787061 0.96551059 2.05236001]

gradient= [-0.0021889 -0.00010451 0.00229342] w = [-0.01787061 0.96551059 2.05236001] w\_new= [-0.0178925 0.96550955 2.05238295]

gradient= [-0.00218569 -0.00010438 0.00229007] w = [-0.0178925 0.96550955 2.05238295] w\_new= [-0.01791435 0.9655085 2.05240585]

gradient= [-0.00218249 -0.00010425 0.00228673] w = [-0.01791435 0.9655085 2.05240585] w\_new= [-0.01793618 0.96550746 2.05242872]

gradient= [-0.00217929 -0.00010411 0.0022834 ] w = [-0.01793618 0.96550746 2.05242872] w\_new= [-0.01795797 0.96550642 2.05245155]

gradient= [-0.00217609 -0.00010398 0.00228007] w = [-0.01795797 0.96550642 2.05245155] w\_new= [-0.01797973 0.96550538 2.05247435]

gradient= [-0.0021729 -0.00010384 0.00227674] w = [-0.01797973 0.96550538 2.05247435] w\_new= [-0.01800146 0.96550434 2.05249712]

gradient= [-0.00216971 -0.00010371 0.00227342] w = [-0.01800146 0.96550434 2.05249712] w\_new= [-0.01802316 0.96550331 2.05251985]

gradient= [-0.00216653 -0.00010357 0.00227011] w = [-0.01802316 0.96550331 2.05251985] w\_new= [-0.01804482 0.96550227 2.05254255]

gradient= [-0.00216336 -0.00010344 0.0022668 ] w = [-0.01804482 0.96550227 2.05254255] w\_new= [-0.01806646 0.96550124 2.05256522]

gradient= [-0.00216018 -0.00010331 0.00226349] w = [-0.01806646 0.96550124 2.05256522] w\_new= [-0.01808806 0.9655002 2.05258786]

gradient= [-0.00215702 -0.00010317 0.00226019] w = [-0.01808806 0.9655002 2.05258786] w\_new= [-0.01810963 0.96549917 2.05261046]

gradient= [-0.00215385 -0.00010304 0.00225689] w = [-0.01810963 0.96549917 2.05261046] w\_new= [-0.01813117 0.96549814 2.05263303]

gradient= [-0.00215069 -0.00010291 0.0022536 ] w = [-0.01813117 0.96549814 2.05263303] w\_new= [-0.01815268 0.96549711 2.05265556]

gradient= [-0.00214754 -0.00010278 0.00225032] w = [-0.01815268 0.96549711 2.05265556] w\_new= [-0.01817415 0.96549608 2.05267807]

gradient= [-0.00214439 -0.00010264 0.00224704] w = [-0.01817415 0.96549608 2.05267807] w\_new= [-0.0181956 0.96549506 2.05270054]

gradient= [-0.00214125 -0.00010251 0.00224376] w = [-0.0181956 0.96549506 2.05270054] w\_new= [-0.01821701 0.96549403 2.05272298]

gradient= [-0.00213811 -0.00010238 0.00224049] w = [-0.01821701 0.96549403 2.05272298] w\_new= [-0.01823839 0.96549301 2.05274538]

gradient= [-0.00213497 -0.00010225 0.00223722] w = [-0.01823839 0.96549301 2.05274538] w\_new= [-0.01825974 0.96549199 2.05276775]

gradient= [-0.00213184 -0.00010211 0.00223396] w = [-0.01825974 0.96549199 2.05276775] w\_new= [-0.01828106 0.96549097 2.05279009]

gradient= [-0.00212872 -0.00010198 0.0022307 ] w = [-0.01828106 0.96549097 2.05279009] w\_new= [-0.01830234 0.96548995 2.0528124 ]

gradient= [-0.0021256 -0.00010185 0.00222745] w = [-0.01830234 0.96548995 2.0528124 ] w\_new= [-0.0183236 0.96548893 2.05283467]

gradient= [-0.00212248 -0.00010172 0.0022242 ] w = [-0.0183236 0.96548893 2.05283467] w\_new= [-0.01834482 0.96548791 2.05285692]

gradient= [-0.00211937 -0.00010159 0.00222096] w = [-0.01834482 0.96548791 2.05285692] w\_new= [-0.01836602 0.96548689 2.05287912]

gradient= [-0.00211626 -0.00010146 0.00221772] w = [-0.01836602 0.96548689 2.05287912] w\_new= [-0.01838718 0.96548588 2.0529013 ]

gradient= [-0.00211316 -0.00010133 0.00221448] w = [-0.01838718 0.96548588 2.0529013 ] w\_new= [-0.01840831 0.96548487 2.05292345]

gradient= [-0.00211006 -0.00010119 0.00221125] w = [-0.01840831 0.96548487 2.05292345] w\_new= [-0.01842941 0.96548385 2.05294556]

gradient= [-0.00210697 -0.00010106 0.00220803] w = [-0.01842941 0.96548385 2.05294556] w\_new= [-0.01845048 0.96548284 2.05296764]

gradient= [-0.00210388 -0.00010093 0.00220481] w = [-0.01845048 0.96548284 2.05296764] w\_new= [-0.01847152 0.96548183 2.05298969]

gradient= [-0.00210079 -0.0001008 0.0022016 ] w = [-0.01847152 0.96548183 2.05298969] w\_new= [-0.01849253 0.96548083 2.0530117 ]

gradient= [-0.00209771 -0.00010067 0.00219839] w = [-0.01849253 0.96548083 2.0530117 ] w\_new= [-0.01851351 0.96547982 2.05303369]

gradient= [-0.00209464 -0.00010054 0.00219518] w = [-0.01851351 0.96547982 2.05303369] w\_new= [-0.01853445 0.96547881 2.05305564]

gradient= [-0.00209157 -0.00010041 0.00219198] w = [-0.01853445 0.96547881 2.05305564] w\_new= [-0.01855537 0.96547781 2.05307756]

gradient= [-0.0020885 -0.00010028 0.00218878] w = [-0.01855537 0.96547781 2.05307756] w\_new= [-0.01857625 0.96547681 2.05309945]

gradient= [-0.00208544 -0.00010015 0.00218559] w = [-0.01857625 0.96547681 2.05309945] w\_new= [-0.01859711 0.96547581 2.0531213 ]

gradient= [-0.00208238 -0.00010003 0.00218241] w = [-0.01859711 0.96547581 2.0531213 ] w\_new= [-0.01861793 0.9654748 2.05314313]

gradient= [-2.07932895e-03 -9.98962573e-05 2.17922521e-03] w = [-0.01861793 0.9654748 2.05314313] w\_new= [-0.01863873 0.96547381 2.05316492]

gradient= [-2.07628071e-03 -9.97673133e-05 2.17604803e-03] w = [-0.01863873 0.96547381 2.05316492] w\_new= [-0.01865949 0.96547281 2.05318668]

gradient= [-2.07323697e-03 -9.96385337e-05 2.17287550e-03] w = [-0.01865949 0.96547281 2.05318668] w\_new= [-0.01868022 0.96547181 2.05320841]

gradient= [-2.07019772e-03 -9.95099185e-05 2.16970764e-03] w = [-0.01868022 0.96547181 2.05320841] w\_new= [-0.01870092 0.96547082 2.05323011]

gradient= [-2.06716295e-03 -9.93814673e-05 2.16654441e-03] w = [-0.01870092 0.96547082 2.05323011] w\_new= [-0.01872159 0.96546982 2.05325177]

gradient= [-2.06413265e-03 -9.92531800e-05 2.16338583e-03] w = [-0.01872159 0.96546982 2.05325177] w\_new= [-0.01874224 0.96546883 2.0532734 ]

gradient= [-2.06110683e-03 -9.91250564e-05 2.16023188e-03] w = [-0.01874224 0.96546883 2.0532734 ] w\_new= [-0.01876285 0.96546784 2.05329501]

gradient= [-2.05808547e-03 -9.89970961e-05 2.15708256e-03] w = [-0.01876285 0.96546784 2.05329501] w\_new= [-0.01878343 0.96546685 2.05331658]

gradient= [-2.05506856e-03 -9.88692991e-05 2.15393786e-03] w = [-0.01878343 0.96546685 2.05331658] w\_new= [-0.01880398 0.96546586 2.05333812]

gradient= [-2.05205610e-03 -9.87416652e-05 2.15079777e-03] w = [-0.01880398 0.96546586 2.05333812] w\_new= [-0.0188245 0.96546487 2.05335963]

gradient= [-2.04904809e-03 -9.86141940e-05 2.14766228e-03] w = [-0.0188245 0.96546487 2.05335963] w\_new= [-0.01884499 0.96546389 2.0533811 ]

gradient= [-2.04604451e-03 -9.84868855e-05 2.14453140e-03] w = [-0.01884499 0.96546389 2.0533811 ] w\_new= [-0.01886545 0.9654629 2.05340255]

gradient= [-2.04304536e-03 -9.83597393e-05 2.14140510e-03] w = [-0.01886545 0.9654629 2.05340255] w\_new= [-0.01888588 0.96546192 2.05342396]

gradient= [-2.04005064e-03 -9.82327554e-05 2.13828339e-03] w = [-0.01888588 0.96546192 2.05342396] w\_new= [-0.01890628 0.96546094 2.05344534]

gradient= [-2.03706033e-03 -9.81059334e-05 2.13516626e-03] w = [-0.01890628 0.96546094 2.05344534] w\_new= [-0.01892665 0.96545996 2.0534667 ]

gradient= [-2.03407443e-03 -9.79792732e-05 2.13205370e-03] w = [-0.01892665 0.96545996 2.0534667 ] w\_new= [-0.01894699 0.96545898 2.05348802]

gradient= [-2.03109293e-03 -9.78527746e-05 2.12894571e-03] w = [-0.01894699 0.96545898 2.05348802] w\_new= [-0.0189673 0.965458 2.05350931]

gradient= [-2.02811583e-03 -9.77264374e-05 2.12584227e-03] w = [-0.0189673 0.965458 2.05350931] w\_new= [-0.01898758 0.96545702 2.05353056]

gradient= [-2.02514312e-03 -9.76002613e-05 2.12274338e-03] w = [-0.01898758 0.96545702 2.05353056] w\_new= [-0.01900784 0.96545604 2.05355179]

gradient= [-2.02217480e-03 -9.74742462e-05 2.11964904e-03] w = [-0.01900784 0.96545604 2.05355179] w\_new= [-0.01902806 0.96545507 2.05357299]

gradient= [-2.01921085e-03 -9.73483918e-05 2.11655924e-03] w = [-0.01902806 0.96545507 2.05357299] w\_new= [-0.01904825 0.9654541 2.05359415]

gradient= [-2.01625127e-03 -9.72226980e-05 2.11347397e-03] w = [-0.01904825 0.9654541 2.05359415] w\_new= [-0.01906841 0.96545312 2.05361529]

gradient= [-2.01329605e-03 -9.70971645e-05 2.11039322e-03] w = [-0.01906841 0.96545312 2.05361529] w\_new= [-0.01908854 0.96545215 2.05363639]

gradient= [-2.01034519e-03 -9.69717912e-05 2.10731699e-03] w = [-0.01908854 0.96545215 2.05363639] w\_new= [-0.01910865 0.96545118 2.05365747]

gradient= [-2.00739869e-03 -9.68465778e-05 2.10424527e-03] w = [-0.01910865 0.96545118 2.05365747] w\_new= [-0.01912872 0.96545021 2.05367851]

gradient= [-2.00445652e-03 -9.67215241e-05 2.10117805e-03] w = [-0.01912872 0.96545021 2.05367851] w\_new= [-0.01914877 0.96544925 2.05369952]

gradient= [-2.00151870e-03 -9.65966299e-05 2.09811533e-03] w = [-0.01914877 0.96544925 2.05369952] w\_new= [-0.01916878 0.96544828 2.0537205 ]

gradient= [-1.99858521e-03 -9.64718951e-05 2.09505710e-03] w = [-0.01916878 0.96544828 2.0537205 ] w\_new= [-0.01918877 0.96544732 2.05374145]

gradient= [-1.99565604e-03 -9.63473194e-05 2.09200336e-03] w = [-0.01918877 0.96544732 2.05374145] w\_new= [-0.01920872 0.96544635 2.05376237]

gradient= [-1.99273119e-03 -9.62229026e-05 2.08895409e-03] w = [-0.01920872 0.96544635 2.05376237] w\_new= [-0.01922865 0.96544539 2.05378326]

gradient= [-1.98981065e-03 -9.60986446e-05 2.08590929e-03] w = [-0.01922865 0.96544539 2.05378326] w\_new= [-0.01924855 0.96544443 2.05380412]

gradient= [-1.98689442e-03 -9.59745450e-05 2.08286896e-03] w = [-0.01924855 0.96544443 2.05380412] w\_new= [-0.01926842 0.96544347 2.05382495]

gradient= [-1.98398248e-03 -9.58506038e-05 2.07983309e-03] w = [-0.01926842 0.96544347 2.05382495] w\_new= [-0.01928826 0.96544251 2.05384575]

gradient= [-1.98107484e-03 -9.57268206e-05 2.07680166e-03] w = [-0.01928826 0.96544251 2.05384575] w\_new= [-0.01930807 0.96544155 2.05386652]

gradient= [-1.97817149e-03 -9.56031954e-05 2.07377469e-03] w = [-0.01930807 0.96544155 2.05386652] w\_new= [-0.01932785 0.9654406 2.05388725]

gradient= [-1.97527242e-03 -9.54797279e-05 2.07075214e-03] w = [-0.01932785 0.9654406 2.05388725] w\_new= [-0.0193476 0.96543964 2.05390796]

gradient= [-1.97237762e-03 -9.53564179e-05 2.06773403e-03] w = [-0.0193476 0.96543964 2.05390796] w\_new= [-0.01936733 0.96543869 2.05392864]

gradient= [-1.96948708e-03 -9.52332652e-05 2.06472035e-03] w = [-0.01936733 0.96543869 2.05392864] w\_new= [-0.01938702 0.96543774 2.05394929]

gradient= [-1.96660081e-03 -9.51102696e-05 2.06171108e-03] w = [-0.01938702 0.96543774 2.05394929] w\_new= [-0.01940669 0.96543679 2.0539699 ]

gradient= [-1.96371879e-03 -9.49874309e-05 2.05870622e-03] w = [-0.01940669 0.96543679 2.0539699 ] w\_new= [-0.01942633 0.96543584 2.05399049]

gradient= [-1.96084102e-03 -9.48647489e-05 2.05570577e-03] w = [-0.01942633 0.96543584 2.05399049] w\_new= [-0.01944593 0.96543489 2.05401105]

gradient= [-1.95796750e-03 -9.47422234e-05 2.05270972e-03] w = [-0.01944593 0.96543489 2.05401105] w\_new= [-0.01946551 0.96543394 2.05403157]

gradient= [-1.95509821e-03 -9.46198543e-05 2.04971806e-03] w = [-0.01946551 0.96543394 2.05403157] w\_new= [-0.01948506 0.96543299 2.05405207]

gradient= [-1.95223314e-03 -9.44976412e-05 2.04673078e-03] w = [-0.01948506 0.96543299 2.05405207] w\_new= [-0.01950459 0.96543205 2.05407254]

gradient= [-1.94937230e-03 -9.43755840e-05 2.04374789e-03] w = [-0.01950459 0.96543205 2.05407254] w\_new= [-0.01952408 0.96543111 2.05409298]

gradient= [-1.94651568e-03 -9.42536826e-05 2.04076936e-03] w = [-0.01952408 0.96543111 2.05409298] w\_new= [-0.01954355 0.96543016 2.05411338]

gradient= [-1.94366327e-03 -9.41319367e-05 2.03779520e-03] w = [-0.01954355 0.96543016 2.05411338] w\_new= [-0.01956298 0.96542922 2.05413376]

gradient= [-1.94081506e-03 -9.40103461e-05 2.03482541e-03] w = [-0.01956298 0.96542922 2.05413376] w\_new= [-0.01958239 0.96542828 2.05415411]

gradient= [-1.93797105e-03 -9.38889106e-05 2.03185996e-03] w = [-0.01958239 0.96542828 2.05415411] w\_new= [-0.01960177 0.96542734 2.05417443]

gradient= [-1.93513123e-03 -9.37676300e-05 2.02889886e-03] w = [-0.01960177 0.96542734 2.05417443] w\_new= [-0.01962112 0.9654264 2.05419472]

gradient= [-1.93229560e-03 -9.36465041e-05 2.02594210e-03] w = [-0.01962112 0.9654264 2.05419472] w\_new= [-0.01964044 0.96542547 2.05421498]

gradient= [-1.92946414e-03 -9.35255328e-05 2.02298967e-03] w = [-0.01964044 0.96542547 2.05421498] w\_new= [-0.01965974 0.96542453 2.05423521]

gradient= [-1.92663686e-03 -9.34047158e-05 2.02004157e-03] w = [-0.01965974 0.96542453 2.05423521] w\_new= [-0.01967901 0.9654236 2.05425541]

gradient= [-1.92381374e-03 -9.32840529e-05 2.01709780e-03] w = [-0.01967901 0.9654236 2.05425541] w\_new= [-0.01969824 0.96542267 2.05427558]

gradient= [-1.92099479e-03 -9.31635440e-05 2.01415833e-03] w = [-0.01969824 0.96542267 2.05427558] w\_new= [-0.01971745 0.96542173 2.05429572]

gradient= [-1.91817999e-03 -9.30431888e-05 2.01122318e-03] w = [-0.01971745 0.96542173 2.05429572] w\_new= [-0.01973664 0.9654208 2.05431583]

gradient= [-1.91536934e-03 -9.29229872e-05 2.00829232e-03] w = [-0.01973664 0.9654208 2.05431583] w\_new= [-0.01975579 0.96541987 2.05433591]

gradient= [-1.91256283e-03 -9.28029389e-05 2.00536576e-03] w = [-0.01975579 0.96541987 2.05433591] w\_new= [-0.01977491 0.96541895 2.05435597]

gradient= [-1.90976045e-03 -9.26830437e-05 2.00244349e-03] w = [-0.01977491 0.96541895 2.05435597] w\_new= [-0.01979401 0.96541802 2.05437599]

gradient= [-1.90696221e-03 -9.25633015e-05 1.99952551e-03] w = [-0.01979401 0.96541802 2.05437599] w\_new= [-0.01981308 0.96541709 2.05439599]

gradient= [-1.90416808e-03 -9.24437121e-05 1.99661180e-03] w = [-0.01981308 0.96541709 2.05439599] w\_new= [-0.01983212 0.96541617 2.05441595]

gradient= [-1.90137808e-03 -9.23242752e-05 1.99370235e-03] w = [-0.01983212 0.96541617 2.05441595] w\_new= [-0.01985114 0.96541525 2.05443589]

gradient= [-1.89859218e-03 -9.22049908e-05 1.99079718e-03] w = [-0.01985114 0.96541525 2.05443589] w\_new= [-0.01987012 0.96541432 2.0544558 ]

gradient= [-1.89581040e-03 -9.20858585e-05 1.98789625e-03] w = [-0.01987012 0.96541432 2.0544558 ] w\_new= [-0.01988908 0.9654134 2.05447568]

gradient= [-1.89303271e-03 -9.19668782e-05 1.98499958e-03] w = [-0.01988908 0.9654134 2.05447568] w\_new= [-0.01990801 0.96541248 2.05449553]

gradient= [-1.89025911e-03 -9.18480497e-05 1.98210716e-03] w = [-0.01990801 0.96541248 2.05449553] w\_new= [-0.01992691 0.96541157 2.05451535]

gradient= [-1.88748960e-03 -9.17293728e-05 1.97921897e-03] w = [-0.01992691 0.96541157 2.05451535] w\_new= [-0.01994579 0.96541065 2.05453514]

gradient= [-1.88472417e-03 -9.16108473e-05 1.97633502e-03] w = [-0.01994579 0.96541065 2.05453514] w\_new= [-0.01996464 0.96540973 2.0545549 ]

gradient= [-1.88196281e-03 -9.14924730e-05 1.97345529e-03] w = [-0.01996464 0.96540973 2.0545549 ] w\_new= [-0.01998346 0.96540882 2.05457464]

gradient= [-1.87920553e-03 -9.13742497e-05 1.97057978e-03] w = [-0.01998346 0.96540882 2.05457464] w\_new= [-0.02000225 0.9654079 2.05459434]

gradient= [-1.87645230e-03 -9.12561773e-05 1.96770848e-03] w = [-0.02000225 0.9654079 2.05459434] w\_new= [-0.02002101 0.96540699 2.05461402]

gradient= [-1.87370314e-03 -9.11382555e-05 1.96484139e-03] w = [-0.02002101 0.96540699 2.05461402] w\_new= [-0.02003975 0.96540608 2.05463367]

gradient= [-1.87095802e-03 -9.10204842e-05 1.96197850e-03] w = [-0.02003975 0.96540608 2.05463367] w\_new= [-0.02005846 0.96540517 2.05465329]

gradient= [-1.86821694e-03 -9.09028631e-05 1.95911981e-03] w = [-0.02005846 0.96540517 2.05465329] w\_new= [-0.02007714 0.96540426 2.05467288]

gradient= [-1.86547991e-03 -9.07853921e-05 1.95626530e-03] w = [-0.02007714 0.96540426 2.05467288] w\_new= [-0.0200958 0.96540335 2.05469244]

gradient= [-1.86274691e-03 -9.06680710e-05 1.95341498e-03] w = [-0.0200958 0.96540335 2.05469244] w\_new= [-0.02011442 0.96540245 2.05471198]

gradient= [-1.86001793e-03 -9.05508995e-05 1.95056883e-03] w = [-0.02011442 0.96540245 2.05471198] w\_new= [-0.02013302 0.96540154 2.05473148]

gradient= [-1.85729297e-03 -9.04338775e-05 1.94772685e-03] w = [-0.02013302 0.96540154 2.05473148] w\_new= [-0.0201516 0.96540064 2.05475096]

gradient= [-1.85457203e-03 -9.03170049e-05 1.94488904e-03] w = [-0.0201516 0.96540064 2.05475096] w\_new= [-0.02017014 0.96539973 2.05477041]

gradient= [-1.85185510e-03 -9.02002814e-05 1.94205538e-03] w = [-0.02017014 0.96539973 2.05477041] w\_new= [-0.02018866 0.96539883 2.05478983]

gradient= [-1.84914216e-03 -9.00837067e-05 1.93922587e-03] w = [-0.02018866 0.96539883 2.05478983] w\_new= [-0.02020715 0.96539793 2.05480922]

gradient= [-1.84643323e-03 -8.99672809e-05 1.93640051e-03] w = [-0.02020715 0.96539793 2.05480922] w\_new= [-0.02022562 0.96539703 2.05482859]

gradient= [-1.84372828e-03 -8.98510035e-05 1.93357929e-03] w = [-0.02022562 0.96539703 2.05482859] w\_new= [-0.02024405 0.96539613 2.05484792]

gradient= [-1.84102732e-03 -8.97348746e-05 1.93076220e-03] w = [-0.02024405 0.96539613 2.05484792] w\_new= [-0.02026246 0.96539523 2.05486723]

gradient= [-1.83833034e-03 -8.96188938e-05 1.92794924e-03] w = [-0.02026246 0.96539523 2.05486723] w\_new= [-0.02028085 0.96539434 2.05488651]

gradient= [-1.83563733e-03 -8.95030609e-05 1.92514039e-03] w = [-0.02028085 0.96539434 2.05488651] w\_new= [-0.0202992 0.96539344 2.05490576]

gradient= [-1.83294829e-03 -8.93873759e-05 1.92233567e-03] w = [-0.0202992 0.96539344 2.05490576] w\_new= [-0.02031753 0.96539255 2.05492498]

gradient= [-1.83026321e-03 -8.92718385e-05 1.91953505e-03] w = [-0.02031753 0.96539255 2.05492498] w\_new= [-0.02033584 0.96539166 2.05494418]

gradient= [-1.82758208e-03 -8.91564485e-05 1.91673853e-03] w = [-0.02033584 0.96539166 2.05494418] w\_new= [-0.02035411 0.96539076 2.05496335]

gradient= [-1.82490490e-03 -8.90412057e-05 1.91394611e-03] w = [-0.02035411 0.96539076 2.05496335] w\_new= [-0.02037236 0.96538987 2.05498249]

gradient= [-1.82223167e-03 -8.89261100e-05 1.91115778e-03] w = [-0.02037236 0.96538987 2.05498249] w\_new= [-0.02039058 0.96538899 2.0550016 ]

gradient= [-1.81956237e-03 -8.88111611e-05 1.90837353e-03] w = [-0.02039058 0.96538899 2.0550016 ] w\_new= [-0.02040878 0.9653881 2.05502068]

gradient= [-1.81689700e-03 -8.86963589e-05 1.90559336e-03] w = [-0.02040878 0.9653881 2.05502068] w\_new= [-0.02042695 0.96538721 2.05503974]

gradient= [-1.81423556e-03 -8.85817031e-05 1.90281727e-03] w = [-0.02042695 0.96538721 2.05503974] w\_new= [-0.02044509 0.96538632 2.05505877]

gradient= [-1.81157804e-03 -8.84671937e-05 1.90004524e-03] w = [-0.02044509 0.96538632 2.05505877] w\_new= [-0.02046321 0.96538544 2.05507777]

gradient= [-1.80892444e-03 -8.83528304e-05 1.89727727e-03] w = [-0.02046321 0.96538544 2.05507777] w\_new= [-0.0204813 0.96538456 2.05509674]

gradient= [-1.80627474e-03 -8.82386130e-05 1.89451335e-03] w = [-0.0204813 0.96538456 2.05509674] w\_new= [-0.02049936 0.96538367 2.05511568]

gradient= [-1.80362894e-03 -8.81245413e-05 1.89175348e-03] w = [-0.02049936 0.96538367 2.05511568] w\_new= [-0.02051739 0.96538279 2.0551346 ]

gradient= [-1.80098704e-03 -8.80106152e-05 1.88899765e-03] w = [-0.02051739 0.96538279 2.0551346 ] w\_new= [-0.0205354 0.96538191 2.05515349]

gradient= [-1.79834903e-03 -8.78968345e-05 1.88624586e-03] w = [-0.0205354 0.96538191 2.05515349] w\_new= [-0.02055339 0.96538103 2.05517235]

gradient= [-1.79571490e-03 -8.77831989e-05 1.88349810e-03] w = [-0.02055339 0.96538103 2.05517235] w\_new= [-0.02057134 0.96538016 2.05519119]

gradient= [-1.79308466e-03 -8.76697084e-05 1.88075437e-03] w = [-0.02057134 0.96538016 2.05519119] w\_new= [-0.02058928 0.96537928 2.05521 ]

gradient= [-1.79045829e-03 -8.75563626e-05 1.87801465e-03] w = [-0.02058928 0.96537928 2.05521 ] w\_new= [-0.02060718 0.9653784 2.05522878]

gradient= [-1.78783578e-03 -8.74431615e-05 1.87527894e-03] w = [-0.02060718 0.9653784 2.05522878] w\_new= [-0.02062506 0.96537753 2.05524753]

gradient= [-1.78521714e-03 -8.73301049e-05 1.87254724e-03] w = [-0.02062506 0.96537753 2.05524753] w\_new= [-0.02064291 0.96537666 2.05526626]

gradient= [-1.78260235e-03 -8.72171925e-05 1.86981954e-03] w = [-0.02064291 0.96537666 2.05526626] w\_new= [-0.02066074 0.96537578 2.05528495]

gradient= [-1.77999141e-03 -8.71044242e-05 1.86709584e-03] w = [-0.02066074 0.96537578 2.05528495] w\_new= [-0.02067854 0.96537491 2.05530362]

gradient= [-1.77738432e-03 -8.69917998e-05 1.86437612e-03] w = [-0.02067854 0.96537491 2.05530362] w\_new= [-0.02069631 0.96537404 2.05532227]

gradient= [-1.77478107e-03 -8.68793191e-05 1.86166039e-03] w = [-0.02069631 0.96537404 2.05532227] w\_new= [-0.02071406 0.96537317 2.05534088]

gradient= [-1.77218165e-03 -8.67669819e-05 1.85894863e-03] w = [-0.02071406 0.96537317 2.05534088] w\_new= [-0.02073178 0.96537231 2.05535947]

gradient= [-1.76958605e-03 -8.66547881e-05 1.85624084e-03] w = [-0.02073178 0.96537231 2.05535947] w\_new= [-0.02074948 0.96537144 2.05537804]

gradient= [-1.76699428e-03 -8.65427374e-05 1.85353702e-03] w = [-0.02074948 0.96537144 2.05537804] w\_new= [-0.02076715 0.96537057 2.05539657]

gradient= [-1.76440633e-03 -8.64308298e-05 1.85083716e-03] w = [-0.02076715 0.96537057 2.05539657] w\_new= [-0.02078479 0.96536971 2.05541508]

gradient= [-1.76182218e-03 -8.63190649e-05 1.84814125e-03] w = [-0.02078479 0.96536971 2.05541508] w\_new= [-0.02080241 0.96536885 2.05543356]

gradient= [-1.75924184e-03 -8.62074427e-05 1.84544929e-03] w = [-0.02080241 0.96536885 2.05543356] w\_new= [-0.02082 0.96536798 2.05545202]

gradient= [-1.75666530e-03 -8.60959629e-05 1.84276127e-03] w = [-0.02082 0.96536798 2.05545202] w\_new= [-0.02083757 0.96536712 2.05547044]

gradient= [-1.75409256e-03 -8.59846254e-05 1.84007718e-03] w = [-0.02083757 0.96536712 2.05547044] w\_new= [-0.02085511 0.96536626 2.05548884]

gradient= [-1.75152360e-03 -8.58734299e-05 1.83739703e-03] w = [-0.02085511 0.96536626 2.05548884] w\_new= [-0.02087262 0.9653654 2.05550722]

gradient= [-1.74895842e-03 -8.57623764e-05 1.83472079e-03] w = [-0.02087262 0.9653654 2.05550722] w\_new= [-0.02089011 0.96536455 2.05552557]

gradient= [-1.74639702e-03 -8.56514646e-05 1.83204848e-03] w = [-0.02089011 0.96536455 2.05552557] w\_new= [-0.02090758 0.96536369 2.05554389]

gradient= [-1.74383939e-03 -8.55406943e-05 1.82938008e-03] w = [-0.02090758 0.96536369 2.05554389] w\_new= [-0.02092502 0.96536284 2.05556218]

gradient= [-1.74128552e-03 -8.54300653e-05 1.82671559e-03] w = [-0.02092502 0.96536284 2.05556218] w\_new= [-0.02094243 0.96536198 2.05558045]

gradient= [-1.73873542e-03 -8.53195776e-05 1.82405499e-03] w = [-0.02094243 0.96536198 2.05558045] w\_new= [-0.02095982 0.96536113 2.05559869]

gradient= [-1.73618907e-03 -8.52092308e-05 1.82139830e-03] w = [-0.02095982 0.96536113 2.05559869] w\_new= [-0.02097718 0.96536028 2.0556169 ]

gradient= [-1.73364646e-03 -8.50990249e-05 1.81874549e-03] w = [-0.02097718 0.96536028 2.0556169 ] w\_new= [-0.02099451 0.96535942 2.05563509]

gradient= [-1.73110760e-03 -8.49889596e-05 1.81609656e-03] w = [-0.02099451 0.96535942 2.05563509] w\_new= [-0.02101183 0.96535857 2.05565325]

gradient= [-1.72857248e-03 -8.48790348e-05 1.81345152e-03] w = [-0.02101183 0.96535857 2.05565325] w\_new= [-0.02102911 0.96535773 2.05567138]

gradient= [-1.72604109e-03 -8.47692503e-05 1.81081034e-03] w = [-0.02102911 0.96535773 2.05567138] w\_new= [-0.02104637 0.96535688 2.05568949]

gradient= [-1.72351343e-03 -8.46596059e-05 1.80817303e-03] w = [-0.02104637 0.96535688 2.05568949] w\_new= [-0.02106361 0.96535603 2.05570757]

gradient= [-1.72098948e-03 -8.45501014e-05 1.80553958e-03] w = [-0.02106361 0.96535603 2.05570757] w\_new= [-0.02108082 0.96535519 2.05572563]

gradient= [-1.71846925e-03 -8.44407367e-05 1.80290999e-03] w = [-0.02108082 0.96535519 2.05572563] w\_new= [-0.021098 0.96535434 2.05574366]

gradient= [-1.71595274e-03 -8.43315115e-05 1.80028425e-03] w = [-0.021098 0.96535434 2.05574366] w\_new= [-0.02111516 0.9653535 2.05576166]

gradient= [-1.71343992e-03 -8.42224257e-05 1.79766235e-03] w = [-0.02111516 0.9653535 2.05576166] w\_new= [-0.02113229 0.96535266 2.05577964]

gradient= [-1.71093081e-03 -8.41134792e-05 1.79504428e-03] w = [-0.02113229 0.96535266 2.05577964] w\_new= [-0.0211494 0.96535182 2.05579759]

gradient= [-1.70842538e-03 -8.40046717e-05 1.79243005e-03] w = [-0.0211494 0.96535182 2.05579759] w\_new= [-0.02116649 0.96535098 2.05581551]

gradient= [-1.70592365e-03 -8.38960031e-05 1.78981965e-03] w = [-0.02116649 0.96535098 2.05581551] w\_new= [-0.02118355 0.96535014 2.05583341]

gradient= [-1.70342560e-03 -8.37874732e-05 1.78721307e-03] w = [-0.02118355 0.96535014 2.05583341] w\_new= [-0.02120058 0.9653493 2.05585128]

gradient= [-1.70093122e-03 -8.36790817e-05 1.78461030e-03] w = [-0.02120058 0.9653493 2.05585128] w\_new= [-0.02121759 0.96534846 2.05586913]

gradient= [-1.69844051e-03 -8.35708287e-05 1.78201134e-03] w = [-0.02121759 0.96534846 2.05586913] w\_new= [-0.02123458 0.96534763 2.05588695]

gradient= [-1.69595348e-03 -8.34627138e-05 1.77941619e-03] w = [-0.02123458 0.96534763 2.05588695] w\_new= [-0.02125154 0.96534679 2.05590474]

gradient= [-1.69347010e-03 -8.33547368e-05 1.77682483e-03] w = [-0.02125154 0.96534679 2.05590474] w\_new= [-0.02126847 0.96534596 2.05592251]

gradient= [-1.69099037e-03 -8.32468977e-05 1.77423727e-03] w = [-0.02126847 0.96534596 2.05592251] w\_new= [-0.02128538 0.96534513 2.05594025]

gradient= [-1.68851430e-03 -8.31391962e-05 1.77165350e-03] w = [-0.02128538 0.96534513 2.05594025] w\_new= [-0.02130227 0.96534429 2.05595797]

gradient= [-1.68604187e-03 -8.30316322e-05 1.76907350e-03] w = [-0.02130227 0.96534429 2.05595797] w\_new= [-0.02131913 0.96534346 2.05597566]

gradient= [-1.68357308e-03 -8.29242055e-05 1.76649728e-03] w = [-0.02131913 0.96534346 2.05597566] w\_new= [-0.02133596 0.96534263 2.05599333]

gradient= [-1.68110792e-03 -8.28169159e-05 1.76392484e-03] w = [-0.02133596 0.96534263 2.05599333] w\_new= [-0.02135277 0.96534181 2.05601097]

gradient= [-1.67864639e-03 -8.27097633e-05 1.76135615e-03] w = [-0.02135277 0.96534181 2.05601097] w\_new= [-0.02136956 0.96534098 2.05602858]

gradient= [-1.67618848e-03 -8.26027474e-05 1.75879123e-03] w = [-0.02136956 0.96534098 2.05602858] w\_new= [-0.02138632 0.96534015 2.05604617]

gradient= [-1.67373419e-03 -8.24958681e-05 1.75623006e-03] w = [-0.02138632 0.96534015 2.05604617] w\_new= [-0.02140306 0.96533933 2.05606373]

gradient= [-1.67128351e-03 -8.23891252e-05 1.75367264e-03] w = [-0.02140306 0.96533933 2.05606373] w\_new= [-0.02141977 0.9653385 2.05608127]

gradient= [-1.66883644e-03 -8.22825186e-05 1.75111896e-03] w = [-0.02141977 0.9653385 2.05608127] w\_new= [-0.02143646 0.96533768 2.05609878]

gradient= [-1.66639297e-03 -8.21760480e-05 1.74856901e-03] w = [-0.02143646 0.96533768 2.05609878] w\_new= [-0.02145312 0.96533686 2.05611626]

gradient= [-1.66395309e-03 -8.20697134e-05 1.74602280e-03] w = [-0.02145312 0.96533686 2.05611626] w\_new= [-0.02146976 0.96533604 2.05613372]

gradient= [-1.66151680e-03 -8.19635145e-05 1.74348032e-03] w = [-0.02146976 0.96533604 2.05613372] w\_new= [-0.02148638 0.96533522 2.05615116]

gradient= [-1.65908410e-03 -8.18574511e-05 1.74094155e-03] w = [-0.02148638 0.96533522 2.05615116] w\_new= [-0.02150297 0.9653344 2.05616857]

gradient= [-1.65665498e-03 -8.17515231e-05 1.73840650e-03] w = [-0.02150297 0.9653344 2.05616857] w\_new= [-0.02151954 0.96533358 2.05618595]

gradient= [-1.65422943e-03 -8.16457303e-05 1.73587516e-03] w = [-0.02151954 0.96533358 2.05618595] w\_new= [-0.02153608 0.96533277 2.05620331]

gradient= [-1.65180746e-03 -8.15400726e-05 1.73334753e-03] w = [-0.02153608 0.96533277 2.05620331] w\_new= [-0.0215526 0.96533195 2.05622064]

gradient= [-1.64938904e-03 -8.14345498e-05 1.73082359e-03] w = [-0.0215526 0.96533195 2.05622064] w\_new= [-0.02156909 0.96533114 2.05623795]

gradient= [-1.64697419e-03 -8.13291616e-05 1.72830335e-03] w = [-0.02156909 0.96533114 2.05623795] w\_new= [-0.02158556 0.96533032 2.05625524]

gradient= [-1.64456288e-03 -8.12239080e-05 1.72578679e-03] w = [-0.02158556 0.96533032 2.05625524] w\_new= [-0.021602 0.96532951 2.05627249]

gradient= [-1.64215513e-03 -8.11187888e-05 1.72327392e-03] w = [-0.021602 0.96532951 2.05627249] w\_new= [-0.02161843 0.9653287 2.05628973]

gradient= [-1.63975091e-03 -8.10138037e-05 1.72076472e-03] w = [-0.02161843 0.9653287 2.05628973] w\_new= [-0.02163482 0.96532789 2.05630693]

gradient= [-1.63735024e-03 -8.09089526e-05 1.71825919e-03] w = [-0.02163482 0.96532789 2.05630693] w\_new= [-0.0216512 0.96532708 2.05632412]

gradient= [-1.63495310e-03 -8.08042354e-05 1.71575733e-03] w = [-0.0216512 0.96532708 2.05632412] w\_new= [-0.02166755 0.96532627 2.05634127]

gradient= [-1.63255948e-03 -8.06996519e-05 1.71325913e-03] w = [-0.02166755 0.96532627 2.05634127] w\_new= [-0.02168387 0.96532547 2.05635841]

gradient= [-1.63016938e-03 -8.05952019e-05 1.71076459e-03] w = [-0.02168387 0.96532547 2.05635841] w\_new= [-0.02170017 0.96532466 2.05637551]

gradient= [-1.62778281e-03 -8.04908852e-05 1.70827369e-03] w = [-0.02170017 0.96532466 2.05637551] w\_new= [-0.02171645 0.96532386 2.0563926 ]

gradient= [-1.62539974e-03 -8.03867017e-05 1.70578644e-03] w = [-0.02171645 0.96532386 2.0563926 ] w\_new= [-0.02173271 0.96532305 2.05640965]

gradient= [-1.62302018e-03 -8.02826512e-05 1.70330283e-03] w = [-0.02173271 0.96532305 2.05640965] w\_new= [-0.02174894 0.96532225 2.05642669]

gradient= [-1.62064412e-03 -8.01787335e-05 1.70082285e-03] w = [-0.02174894 0.96532225 2.05642669] w\_new= [-0.02176514 0.96532145 2.0564437 ]

gradient= [-1.61827155e-03 -8.00749485e-05 1.69834650e-03] w = [-0.02176514 0.96532145 2.0564437 ] w\_new= [-0.02178133 0.96532065 2.05646068]

gradient= [-1.61590248e-03 -7.99712960e-05 1.69587377e-03] w = [-0.02178133 0.96532065 2.05646068] w\_new= [-0.02179748 0.96531985 2.05647764]

gradient= [-1.61353689e-03 -7.98677758e-05 1.69340466e-03] w = [-0.02179748 0.96531985 2.05647764] w\_new= [-0.02181362 0.96531905 2.05649457]

gradient= [-1.61117478e-03 -7.97643877e-05 1.69093916e-03] w = [-0.02181362 0.96531905 2.05649457] w\_new= [-0.02182973 0.96531825 2.05651148]

gradient= [-1.60881614e-03 -7.96611317e-05 1.68847727e-03] w = [-0.02182973 0.96531825 2.05651148] w\_new= [-0.02184582 0.96531745 2.05652837]

gradient= [-1.60646098e-03 -7.95580075e-05 1.68601898e-03] w = [-0.02184582 0.96531745 2.05652837] w\_new= [-0.02186188 0.96531666 2.05654523]

gradient= [-1.60410927e-03 -7.94550149e-05 1.68356429e-03] w = [-0.02186188 0.96531666 2.05654523] w\_new= [-0.02187793 0.96531586 2.05656206]

gradient= [-1.60176103e-03 -7.93521539e-05 1.68111319e-03] w = [-0.02187793 0.96531586 2.05656206] w\_new= [-0.02189394 0.96531507 2.05657887]

gradient= [-1.59941624e-03 -7.92494241e-05 1.67866567e-03] w = [-0.02189394 0.96531507 2.05657887] w\_new= [-0.02190994 0.96531428 2.05659566]

gradient= [-1.59707491e-03 -7.91468255e-05 1.67622173e-03] w = [-0.02190994 0.96531428 2.05659566] w\_new= [-0.02192591 0.96531349 2.05661242]

gradient= [-1.59473701e-03 -7.90443580e-05 1.67378137e-03] w = [-0.02192591 0.96531349 2.05661242] w\_new= [-0.02194186 0.9653127 2.05662916]

gradient= [-1.59240256e-03 -7.89420212e-05 1.67134458e-03] w = [-0.02194186 0.9653127 2.05662916] w\_new= [-0.02195778 0.96531191 2.05664587]

gradient= [-1.59007153e-03 -7.88398151e-05 1.66891135e-03] w = [-0.02195778 0.96531191 2.05664587] w\_new= [-0.02197368 0.96531112 2.05666256]

gradient= [-1.58774394e-03 -7.87377395e-05 1.66648168e-03] w = [-0.02197368 0.96531112 2.05666256] w\_new= [-0.02198956 0.96531033 2.05667923]

gradient= [-1.58541977e-03 -7.86357942e-05 1.66405556e-03] w = [-0.02198956 0.96531033 2.05667923] w\_new= [-0.02200541 0.96530954 2.05669587]

gradient= [-1.58309902e-03 -7.85339791e-05 1.66163300e-03] w = [-0.02200541 0.96530954 2.05669587] w\_new= [-0.02202124 0.96530876 2.05671248]

gradient= [-1.58078168e-03 -7.84322939e-05 1.65921397e-03] w = [-0.02202124 0.96530876 2.05671248] w\_new= [-0.02203705 0.96530797 2.05672908]

gradient= [-1.57846775e-03 -7.83307386e-05 1.65679849e-03] w = [-0.02203705 0.96530797 2.05672908] w\_new= [-0.02205284 0.96530719 2.05674564]

gradient= [-1.57615722e-03 -7.82293130e-05 1.65438654e-03] w = [-0.02205284 0.96530719 2.05674564] w\_new= [-0.0220686 0.96530641 2.05676219]

gradient= [-1.57385010e-03 -7.81280169e-05 1.65197811e-03] w = [-0.0220686 0.96530641 2.05676219] w\_new= [-0.02208434 0.96530563 2.05677871]

gradient= [-1.57154636e-03 -7.80268501e-05 1.64957321e-03] w = [-0.02208434 0.96530563 2.05677871] w\_new= [-0.02210005 0.96530485 2.0567952 ]

gradient= [-1.56924601e-03 -7.79258125e-05 1.64717183e-03] w = [-0.02210005 0.96530485 2.0567952 ] w\_new= [-0.02211574 0.96530407 2.05681168]

gradient= [-1.56694905e-03 -7.78249039e-05 1.64477395e-03] w = [-0.02211574 0.96530407 2.05681168] w\_new= [-0.02213141 0.96530329 2.05682812]

gradient= [-1.56465546e-03 -7.77241242e-05 1.64237959e-03] w = [-0.02213141 0.96530329 2.05682812] w\_new= [-0.02214706 0.96530251 2.05684455]

gradient= [-1.56236525e-03 -7.76234731e-05 1.63998872e-03] w = [-0.02214706 0.96530251 2.05684455] w\_new= [-0.02216268 0.96530174 2.05686095]

gradient= [-1.56007841e-03 -7.75229506e-05 1.63760136e-03] w = [-0.02216268 0.96530174 2.05686095] w\_new= [-0.02217828 0.96530096 2.05687732]

gradient= [-1.55779493e-03 -7.74225564e-05 1.63521748e-03] w = [-0.02217828 0.96530096 2.05687732] w\_new= [-0.02219386 0.96530019 2.05689368]

gradient= [-1.55551480e-03 -7.73222905e-05 1.63283709e-03] w = [-0.02219386 0.96530019 2.05689368] w\_new= [-0.02220942 0.96529941 2.05691 ]

gradient= [-1.55323803e-03 -7.72221525e-05 1.63046018e-03] w = [-0.02220942 0.96529941 2.05691 ] w\_new= [-0.02222495 0.96529864 2.05692631]

gradient= [-1.55096461e-03 -7.71221424e-05 1.62808675e-03] w = [-0.02222495 0.96529864 2.05692631] w\_new= [-0.02224046 0.96529787 2.05694259]

gradient= [-1.54869453e-03 -7.70222601e-05 1.62571679e-03] w = [-0.02224046 0.96529787 2.05694259] w\_new= [-0.02225595 0.9652971 2.05695885]

gradient= [-1.54642779e-03 -7.69225053e-05 1.62335029e-03] w = [-0.02225595 0.9652971 2.05695885] w\_new= [-0.02227141 0.96529633 2.05697508]

gradient= [-1.54416438e-03 -7.68228778e-05 1.62098726e-03] w = [-0.02227141 0.96529633 2.05697508] w\_new= [-0.02228685 0.96529556 2.05699129]

gradient= [-1.54190430e-03 -7.67233776e-05 1.61862768e-03] w = [-0.02228685 0.96529556 2.05699129] w\_new= [-0.02230227 0.96529479 2.05700748]

gradient= [-1.53964754e-03 -7.66240045e-05 1.61627155e-03] w = [-0.02230227 0.96529479 2.05700748] w\_new= [-0.02231767 0.96529403 2.05702364]

gradient= [-1.53739411e-03 -7.65247583e-05 1.61391887e-03] w = [-0.02231767 0.96529403 2.05702364] w\_new= [-0.02233304 0.96529326 2.05703978]

gradient= [-1.53514398e-03 -7.64256388e-05 1.61156962e-03] w = [-0.02233304 0.96529326 2.05703978] w\_new= [-0.02234839 0.9652925 2.05705589]

gradient= [-1.53289717e-03 -7.63266459e-05 1.60922381e-03] w = [-0.02234839 0.9652925 2.05705589] w\_new= [-0.02236372 0.96529174 2.05707199]

gradient= [-1.53065365e-03 -7.62277794e-05 1.60688143e-03] w = [-0.02236372 0.96529174 2.05707199] w\_new= [-0.02237903 0.96529097 2.05708805]

gradient= [-1.52841344e-03 -7.61290391e-05 1.60454248e-03] w = [-0.02237903 0.96529097 2.05708805] w\_new= [-0.02239431 0.96529021 2.0571041 ]

gradient= [-1.52617652e-03 -7.60304250e-05 1.60220695e-03] w = [-0.02239431 0.96529021 2.0571041 ] w\_new= [-0.02240957 0.96528945 2.05712012]

gradient= [-1.52394289e-03 -7.59319368e-05 1.59987483e-03] w = [-0.02240957 0.96528945 2.05712012] w\_new= [-0.02242481 0.96528869 2.05713612]

gradient= [-1.52171255e-03 -7.58335744e-05 1.59754612e-03] w = [-0.02242481 0.96528869 2.05713612] w\_new= [-0.02244003 0.96528793 2.0571521 ]

gradient= [-1.51948548e-03 -7.57353376e-05 1.59522082e-03] w = [-0.02244003 0.96528793 2.0571521 ] w\_new= [-0.02245523 0.96528718 2.05716805]

gradient= [-1.51726169e-03 -7.56372263e-05 1.59289891e-03] w = [-0.02245523 0.96528718 2.05716805] w\_new= [-0.0224704 0.96528642 2.05718398]

gradient= [-1.51504116e-03 -7.55392403e-05 1.59058040e-03] w = [-0.0224704 0.96528642 2.05718398] w\_new= [-0.02248555 0.96528567 2.05719988]

gradient= [-1.51282390e-03 -7.54413794e-05 1.58826528e-03] w = [-0.02248555 0.96528567 2.05719988] w\_new= [-0.02250068 0.96528491 2.05721577]

gradient= [-1.51060991e-03 -7.53436435e-05 1.58595355e-03] w = [-0.02250068 0.96528491 2.05721577] w\_new= [-0.02251578 0.96528416 2.05723163]

gradient= [-1.50839916e-03 -7.52460325e-05 1.58364519e-03] w = [-0.02251578 0.96528416 2.05723163] w\_new= [-0.02253087 0.9652834 2.05724746]

gradient= [-1.50619167e-03 -7.51485461e-05 1.58134021e-03] w = [-0.02253087 0.9652834 2.05724746] w\_new= [-0.02254593 0.96528265 2.05726328]

gradient= [-1.50398742e-03 -7.50511842e-05 1.57903860e-03] w = [-0.02254593 0.96528265 2.05726328] w\_new= [-0.02256097 0.9652819 2.05727907]

gradient= [-1.50178641e-03 -7.49539467e-05 1.57674036e-03] w = [-0.02256097 0.9652819 2.05727907] w\_new= [-0.02257599 0.96528115 2.05729483]

gradient= [-1.49958864e-03 -7.48568333e-05 1.57444547e-03] w = [-0.02257599 0.96528115 2.05729483] w\_new= [-0.02259098 0.9652804 2.05731058]

gradient= [-1.49739410e-03 -7.47598440e-05 1.57215394e-03] w = [-0.02259098 0.9652804 2.05731058] w\_new= [-0.02260596 0.96527966 2.0573263 ]

gradient= [-1.49520278e-03 -7.46629786e-05 1.56986576e-03] w = [-0.02260596 0.96527966 2.0573263 ] w\_new= [-0.02262091 0.96527891 2.057342 ]

gradient= [-1.49301469e-03 -7.45662370e-05 1.56758093e-03] w = [-0.02262091 0.96527891 2.057342 ] w\_new= [-0.02263584 0.96527816 2.05735767]

gradient= [-1.49082981e-03 -7.44696188e-05 1.56529943e-03] w = [-0.02263584 0.96527816 2.05735767] w\_new= [-0.02265075 0.96527742 2.05737333]

gradient= [-1.48864815e-03 -7.43731241e-05 1.56302127e-03] w = [-0.02265075 0.96527742 2.05737333] w\_new= [-0.02266563 0.96527668 2.05738896]

gradient= [-1.48646969e-03 -7.42767527e-05 1.56074644e-03] w = [-0.02266563 0.96527668 2.05738896] w\_new= [-0.0226805 0.96527593 2.05740456]

gradient= [-1.48429443e-03 -7.41805044e-05 1.55847494e-03] w = [-0.0226805 0.96527593 2.05740456] w\_new= [-0.02269534 0.96527519 2.05742015]

gradient= [-1.48212238e-03 -7.40843790e-05 1.55620676e-03] w = [-0.02269534 0.96527519 2.05742015] w\_new= [-0.02271016 0.96527445 2.05743571]

gradient= [-1.47995351e-03 -7.39883763e-05 1.55394189e-03] w = [-0.02271016 0.96527445 2.05743571] w\_new= [-0.02272496 0.96527371 2.05745125]

gradient= [-1.47778783e-03 -7.38924964e-05 1.55168033e-03] w = [-0.02272496 0.96527371 2.05745125] w\_new= [-0.02273974 0.96527297 2.05746677]

gradient= [-1.47562534e-03 -7.37967388e-05 1.54942208e-03] w = [-0.02273974 0.96527297 2.05746677] w\_new= [-0.0227545 0.96527223 2.05748226]

gradient= [-1.47346602e-03 -7.37011037e-05 1.54716713e-03] w = [-0.0227545 0.96527223 2.05748226] w\_new= [-0.02276923 0.9652715 2.05749773]

gradient= [-1.47130988e-03 -7.36055906e-05 1.54491547e-03] w = [-0.02276923 0.9652715 2.05749773] w\_new= [-0.02278394 0.96527076 2.05751318]

gradient= [-1.46915691e-03 -7.35101996e-05 1.54266711e-03] w = [-0.02278394 0.96527076 2.05751318] w\_new= [-0.02279863 0.96527003 2.05752861]

gradient= [-1.46700710e-03 -7.34149305e-05 1.54042203e-03] w = [-0.02279863 0.96527003 2.05752861] w\_new= [-0.02281331 0.96526929 2.05754401]

gradient= [-1.46486045e-03 -7.33197831e-05 1.53818024e-03] w = [-0.02281331 0.96526929 2.05754401] w\_new= [-0.02282795 0.96526856 2.05755939]

gradient= [-1.46271696e-03 -7.32247572e-05 1.53594172e-03] w = [-0.02282795 0.96526856 2.05755939] w\_new= [-0.02284258 0.96526783 2.05757475]

gradient= [-1.46057662e-03 -7.31298527e-05 1.53370647e-03] w = [-0.02284258 0.96526783 2.05757475] w\_new= [-0.02285719 0.9652671 2.05759009]

gradient= [-1.45843942e-03 -7.30350694e-05 1.53147449e-03] w = [-0.02285719 0.9652671 2.05759009] w\_new= [-0.02287177 0.96526636 2.05760541]

gradient= [-1.45630537e-03 -7.29404072e-05 1.52924577e-03] w = [-0.02287177 0.96526636 2.05760541] w\_new= [-0.02288633 0.96526564 2.0576207 ]

gradient= [-1.45417445e-03 -7.28458660e-05 1.52702031e-03] w = [-0.02288633 0.96526564 2.0576207 ] w\_new= [-0.02290088 0.96526491 2.05763597]

gradient= [-1.45204666e-03 -7.27514455e-05 1.52479811e-03] w = [-0.02290088 0.96526491 2.05763597] w\_new= [-0.0229154 0.96526418 2.05765122]

gradient= [-1.44992200e-03 -7.26571457e-05 1.52257915e-03] w = [-0.0229154 0.96526418 2.05765122] w\_new= [-0.0229299 0.96526345 2.05766644]

gradient= [-1.44780046e-03 -7.25629664e-05 1.52036343e-03] w = [-0.0229299 0.96526345 2.05766644] w\_new= [-0.02294437 0.96526273 2.05768165]

gradient= [-1.44568204e-03 -7.24689073e-05 1.51815095e-03] w = [-0.02294437 0.96526273 2.05768165] w\_new= [-0.02295883 0.965262 2.05769683]

gradient= [-1.44356674e-03 -7.23749685e-05 1.51594171e-03] w = [-0.02295883 0.965262 2.05769683] w\_new= [-0.02297327 0.96526128 2.05771199]

gradient= [-1.44145454e-03 -7.22811496e-05 1.51373569e-03] w = [-0.02297327 0.96526128 2.05771199] w\_new= [-0.02298768 0.96526056 2.05772712]

gradient= [-1.43934545e-03 -7.21874507e-05 1.51153290e-03] w = [-0.02298768 0.96526056 2.05772712] w\_new= [-0.02300207 0.96525983 2.05774224]

gradient= [-1.43723945e-03 -7.20938714e-05 1.50933332e-03] w = [-0.02300207 0.96525983 2.05774224] w\_new= [-0.02301645 0.96525911 2.05775733]

gradient= [-1.43513655e-03 -7.20004117e-05 1.50713697e-03] w = [-0.02301645 0.96525911 2.05775733] w\_new= [-0.0230308 0.96525839 2.0577724 ]

gradient= [-1.43303675e-03 -7.19070714e-05 1.50494382e-03] w = [-0.0230308 0.96525839 2.0577724 ] w\_new= [-0.02304513 0.96525767 2.05778745]

gradient= [-1.43094002e-03 -7.18138504e-05 1.50275387e-03] w = [-0.02304513 0.96525767 2.05778745] w\_new= [-0.02305944 0.96525696 2.05780248]

gradient= [-1.42884638e-03 -7.17207485e-05 1.50056713e-03] w = [-0.02305944 0.96525696 2.05780248] w\_new= [-0.02307373 0.96525624 2.05781749]

gradient= [-1.42675581e-03 -7.16277656e-05 1.49838358e-03] w = [-0.02307373 0.96525624 2.05781749] w\_new= [-0.02308799 0.96525552 2.05783247]

gradient= [-1.42466832e-03 -7.15349014e-05 1.49620322e-03] w = [-0.02308799 0.96525552 2.05783247] w\_new= [-0.02310224 0.96525481 2.05784743]

gradient= [-1.42258390e-03 -7.14421559e-05 1.49402605e-03] w = [-0.02310224 0.96525481 2.05784743] w\_new= [-0.02311647 0.96525409 2.05786237]

gradient= [-1.42050253e-03 -7.13495290e-05 1.49185206e-03] w = [-0.02311647 0.96525409 2.05786237] w\_new= [-0.02313067 0.96525338 2.05787729]

gradient= [-1.41842423e-03 -7.12570203e-05 1.48968125e-03] w = [-0.02313067 0.96525338 2.05787729] w\_new= [-0.02314486 0.96525267 2.05789219]

gradient= [-1.41634898e-03 -7.11646299e-05 1.48751361e-03] w = [-0.02314486 0.96525267 2.05789219] w\_new= [-0.02315902 0.96525195 2.05790706]

gradient= [-1.41427678e-03 -7.10723576e-05 1.48534913e-03] w = [-0.02315902 0.96525195 2.05790706] w\_new= [-0.02317316 0.96525124 2.05792192]

gradient= [-1.41220762e-03 -7.09802031e-05 1.48318782e-03] w = [-0.02317316 0.96525124 2.05792192] w\_new= [-0.02318728 0.96525053 2.05793675]

gradient= [-1.41014150e-03 -7.08881664e-05 1.48102967e-03] w = [-0.02318728 0.96525053 2.05793675] w\_new= [-0.02320139 0.96524983 2.05795156]

gradient= [-1.40807842e-03 -7.07962473e-05 1.47887467e-03] w = [-0.02320139 0.96524983 2.05795156] w\_new= [-0.02321547 0.96524912 2.05796635]

gradient= [-1.40601837e-03 -7.07044457e-05 1.47672282e-03] w = [-0.02321547 0.96524912 2.05796635] w\_new= [-0.02322953 0.96524841 2.05798112]

gradient= [-1.40396135e-03 -7.06127614e-05 1.47457411e-03] w = [-0.02322953 0.96524841 2.05798112] w\_new= [-0.02324357 0.9652477 2.05799586]

gradient= [-1.40190735e-03 -7.05211943e-05 1.47242854e-03] w = [-0.02324357 0.9652477 2.05799586] w\_new= [-0.02325758 0.965247 2.05801059]

gradient= [-1.39985637e-03 -7.04297442e-05 1.47028611e-03] w = [-0.02325758 0.965247 2.05801059] w\_new= [-0.02327158 0.96524629 2.05802529]

gradient= [-1.39780840e-03 -7.03384109e-05 1.46814681e-03] w = [-0.02327158 0.96524629 2.05802529] w\_new= [-0.02328556 0.96524559 2.05803997]

gradient= [-1.39576344e-03 -7.02471944e-05 1.46601063e-03] w = [-0.02328556 0.96524559 2.05803997] w\_new= [-0.02329952 0.96524489 2.05805463]

gradient= [-1.39372148e-03 -7.01560944e-05 1.46387758e-03] w = [-0.02329952 0.96524489 2.05805463] w\_new= [-0.02331346 0.96524419 2.05806927]

gradient= [-1.39168253e-03 -7.00651108e-05 1.46174764e-03] w = [-0.02331346 0.96524419 2.05806927] w\_new= [-0.02332737 0.96524349 2.05808389]

gradient= [-1.38964657e-03 -6.99742436e-05 1.45962081e-03] w = [-0.02332737 0.96524349 2.05808389] w\_new= [-0.02334127 0.96524279 2.05809848]

gradient= [-1.38761360e-03 -6.98834924e-05 1.45749709e-03] w = [-0.02334127 0.96524279 2.05809848] w\_new= [-0.02335515 0.96524209 2.05811306]

gradient= [-1.38558362e-03 -6.97928573e-05 1.45537647e-03] w = [-0.02335515 0.96524209 2.05811306] w\_new= [-0.023369 0.96524139 2.05812761]

gradient= [-1.38355662e-03 -6.97023380e-05 1.45325895e-03] w = [-0.023369 0.96524139 2.05812761] w\_new= [-0.02338284 0.96524069 2.05814214]

gradient= [-1.38153259e-03 -6.96119343e-05 1.45114453e-03] w = [-0.02338284 0.96524069 2.05814214] w\_new= [-0.02339665 0.96524 2.05815666]

gradient= [-1.37951155e-03 -6.95216463e-05 1.44903319e-03] w = [-0.02339665 0.96524 2.05815666] w\_new= [-0.02341045 0.9652393 2.05817115]

gradient= [-1.37749347e-03 -6.94314736e-05 1.44692494e-03] w = [-0.02341045 0.9652393 2.05817115] w\_new= [-0.02342422 0.96523861 2.05818561]

gradient= [-1.37547835e-03 -6.93414161e-05 1.44481977e-03] w = [-0.02342422 0.96523861 2.05818561] w\_new= [-0.02343798 0.96523791 2.05820006]

gradient= [-1.37346620e-03 -6.92514738e-05 1.44271767e-03] w = [-0.02343798 0.96523791 2.05820006] w\_new= [-0.02345171 0.96523722 2.05821449]

gradient= [-1.37145700e-03 -6.91616464e-05 1.44061864e-03] w = [-0.02345171 0.96523722 2.05821449] w\_new= [-0.02346543 0.96523653 2.0582289 ]

gradient= [-1.36945075e-03 -6.90719339e-05 1.43852268e-03] w = [-0.02346543 0.96523653 2.0582289 ] w\_new= [-0.02347912 0.96523584 2.05824328]

gradient= [-1.36744745e-03 -6.89823360e-05 1.43642979e-03] w = [-0.02347912 0.96523584 2.05824328] w\_new= [-0.0234928 0.96523515 2.05825765]

gradient= [-1.36544709e-03 -6.88928526e-05 1.43433995e-03] w = [-0.0234928 0.96523515 2.05825765] w\_new= [-0.02350645 0.96523446 2.05827199]

gradient= [-1.36344967e-03 -6.88034836e-05 1.43225316e-03] w = [-0.02350645 0.96523446 2.05827199] w\_new= [-0.02352008 0.96523377 2.05828631]

gradient= [-1.36145519e-03 -6.87142288e-05 1.43016942e-03] w = [-0.02352008 0.96523377 2.05828631] w\_new= [-0.0235337 0.96523309 2.05830061]

gradient= [-1.35946363e-03 -6.86250882e-05 1.42808872e-03] w = [-0.0235337 0.96523309 2.05830061] w\_new= [-0.02354729 0.9652324 2.05831489]

gradient= [-1.35747500e-03 -6.85360614e-05 1.42601107e-03] w = [-0.02354729 0.9652324 2.05831489] w\_new= [-0.02356087 0.96523171 2.05832915]

gradient= [-1.35548930e-03 -6.84471485e-05 1.42393644e-03] w = [-0.02356087 0.96523171 2.05832915] w\_new= [-0.02357442 0.96523103 2.05834339]

gradient= [-1.35350650e-03 -6.83583492e-05 1.42186485e-03] w = [-0.02357442 0.96523103 2.05834339] w\_new= [-0.02358796 0.96523035 2.05835761]

gradient= [-1.35152662e-03 -6.82696635e-05 1.41979629e-03] w = [-0.02358796 0.96523035 2.05835761] w\_new= [-0.02360147 0.96522966 2.05837181]

gradient= [-1.34954965e-03 -6.81810911e-05 1.41773074e-03] w = [-0.02360147 0.96522966 2.05837181] w\_new= [-0.02361497 0.96522898 2.05838599]

gradient= [-1.34757558e-03 -6.80926319e-05 1.41566822e-03] w = [-0.02361497 0.96522898 2.05838599] w\_new= [-0.02362844 0.9652283 2.05840014]

gradient= [-1.34560442e-03 -6.80042858e-05 1.41360870e-03] w = [-0.02362844 0.9652283 2.05840014] w\_new= [-0.0236419 0.96522762 2.05841428]

gradient= [-1.34363614e-03 -6.79160527e-05 1.41155220e-03] w = [-0.0236419 0.96522762 2.05841428] w\_new= [-0.02365534 0.96522694 2.0584284 ]

gradient= [-1.34167076e-03 -6.78279323e-05 1.40949869e-03] w = [-0.02365534 0.96522694 2.0584284 ] w\_new= [-0.02366875 0.96522626 2.05844249]

gradient= [-1.33970826e-03 -6.77399247e-05 1.40744819e-03] w = [-0.02366875 0.96522626 2.05844249] w\_new= [-0.02368215 0.96522559 2.05845657]

gradient= [-1.33774865e-03 -6.76520295e-05 1.40540068e-03] w = [-0.02368215 0.96522559 2.05845657] w\_new= [-0.02369553 0.96522491 2.05847062]

gradient= [-1.33579192e-03 -6.75642466e-05 1.40335616e-03] w = [-0.02369553 0.96522491 2.05847062] w\_new= [-0.02370889 0.96522423 2.05848465]

gradient= [-1.33383805e-03 -6.74765761e-05 1.40131463e-03] w = [-0.02370889 0.96522423 2.05848465] w\_new= [-0.02372222 0.96522356 2.05849867]

gradient= [-1.33188706e-03 -6.73890175e-05 1.39927608e-03] w = [-0.02372222 0.96522356 2.05849867] w\_new= [-0.02373554 0.96522288 2.05851266]

gradient= [-1.32993894e-03 -6.73015710e-05 1.39724051e-03] w = [-0.02373554 0.96522288 2.05851266] w\_new= [-0.02374884 0.96522221 2.05852663]

gradient= [-1.32799367e-03 -6.72142362e-05 1.39520791e-03] w = [-0.02374884 0.96522221 2.05852663] w\_new= [-0.02376212 0.96522154 2.05854058]

gradient= [-1.32605126e-03 -6.71270131e-05 1.39317828e-03] w = [-0.02376212 0.96522154 2.05854058] w\_new= [-0.02377538 0.96522087 2.05855452]

gradient= [-1.32411171e-03 -6.70399015e-05 1.39115161e-03] w = [-0.02377538 0.96522087 2.05855452] w\_new= [-0.02378862 0.9652202 2.05856843]

gradient= [-1.32217500e-03 -6.69529013e-05 1.38912790e-03] w = [-0.02378862 0.9652202 2.05856843] w\_new= [-0.02380185 0.96521953 2.05858232]

gradient= [-1.32024114e-03 -6.68660123e-05 1.38710715e-03] w = [-0.02380185 0.96521953 2.05858232] w\_new= [-0.02381505 0.96521886 2.05859619]

gradient= [-1.31831011e-03 -6.67792344e-05 1.38508935e-03] w = [-0.02381505 0.96521886 2.05859619] w\_new= [-0.02382823 0.96521819 2.05861004]

gradient= [-1.31638192e-03 -6.66925675e-05 1.38307449e-03] w = [-0.02382823 0.96521819 2.05861004] w\_new= [-0.0238414 0.96521752 2.05862387]

gradient= [-1.31445657e-03 -6.66060114e-05 1.38106258e-03] w = [-0.0238414 0.96521752 2.05862387] w\_new= [-0.02385454 0.96521686 2.05863768]

gradient= [-1.31253404e-03 -6.65195660e-05 1.37905361e-03] w = [-0.02385454 0.96521686 2.05863768] w\_new= [-0.02386767 0.96521619 2.05865147]

gradient= [-1.31061433e-03 -6.64332310e-05 1.37704757e-03] w = [-0.02386767 0.96521619 2.05865147] w\_new= [-0.02388077 0.96521553 2.05866524]

gradient= [-1.30869745e-03 -6.63470065e-05 1.37504445e-03] w = [-0.02388077 0.96521553 2.05866524] w\_new= [-0.02389386 0.96521487 2.05867899]

gradient= [-1.30678338e-03 -6.62608923e-05 1.37304427e-03] w = [-0.02389386 0.96521487 2.05867899] w\_new= [-0.02390693 0.9652142 2.05869272]

gradient= [-1.30487212e-03 -6.61748881e-05 1.37104700e-03] w = [-0.02390693 0.9652142 2.05869272] w\_new= [-0.02391998 0.96521354 2.05870643]

gradient= [-1.30296366e-03 -6.60889939e-05 1.36905265e-03] w = [-0.02391998 0.96521354 2.05870643] w\_new= [-0.023933 0.96521288 2.05872012]

gradient= [-1.30105801e-03 -6.60032096e-05 1.36706122e-03] w = [-0.023933 0.96521288 2.05872012] w\_new= [-0.02394602 0.96521222 2.05873379]

gradient= [-1.29915516e-03 -6.59175350e-05 1.36507269e-03] w = [-0.02394602 0.96521222 2.05873379] w\_new= [-0.02395901 0.96521156 2.05874745]

gradient= [-1.29725510e-03 -6.58319699e-05 1.36308707e-03] w = [-0.02395901 0.96521156 2.05874745] w\_new= [-0.02397198 0.9652109 2.05876108]

gradient= [-1.29535783e-03 -6.57465142e-05 1.36110434e-03] w = [-0.02397198 0.9652109 2.05876108] w\_new= [-0.02398493 0.96521025 2.05877469]

gradient= [-1.29346334e-03 -6.56611679e-05 1.35912451e-03] w = [-0.02398493 0.96521025 2.05877469] w\_new= [-0.02399787 0.96520959 2.05878828]

gradient= [-1.29157164e-03 -6.55759306e-05 1.35714757e-03] w = [-0.02399787 0.96520959 2.05878828] w\_new= [-0.02401078 0.96520893 2.05880185]

gradient= [-1.28968271e-03 -6.54908024e-05 1.35517352e-03] w = [-0.02401078 0.96520893 2.05880185] w\_new= [-0.02402368 0.96520828 2.0588154 ]

gradient= [-1.28779656e-03 -6.54057830e-05 1.35320235e-03] w = [-0.02402368 0.96520828 2.0588154 ] w\_new= [-0.02403656 0.96520762 2.05882893]

gradient= [-1.28591318e-03 -6.53208724e-05 1.35123405e-03] w = [-0.02403656 0.96520762 2.05882893] w\_new= [-0.02404942 0.96520697 2.05884245]

gradient= [-1.28403257e-03 -6.52360703e-05 1.34926864e-03] w = [-0.02404942 0.96520697 2.05884245] w\_new= [-0.02406226 0.96520632 2.05885594]

gradient= [-1.28215471e-03 -6.51513768e-05 1.34730609e-03] w = [-0.02406226 0.96520632 2.05885594] w\_new= [-0.02407508 0.96520567 2.05886941]

gradient= [-1.28027961e-03 -6.50667915e-05 1.34534640e-03] w = [-0.02407508 0.96520567 2.05886941] w\_new= [-0.02408788 0.96520502 2.05888287]

gradient= [-1.27840727e-03 -6.49823144e-05 1.34338958e-03] w = [-0.02408788 0.96520502 2.05888287] w\_new= [-0.02410067 0.96520437 2.0588963 ]

gradient= [-1.27653767e-03 -6.48979453e-05 1.34143562e-03] w = [-0.02410067 0.96520437 2.0588963 ] w\_new= [-0.02411343 0.96520372 2.05890971]

gradient= [-1.27467082e-03 -6.48136842e-05 1.33948450e-03] w = [-0.02411343 0.96520372 2.05890971] w\_new= [-0.02412618 0.96520307 2.05892311]

gradient= [-1.27280671e-03 -6.47295308e-05 1.33753624e-03] w = [-0.02412618 0.96520307 2.05892311] w\_new= [-0.02413891 0.96520242 2.05893648]

gradient= [-1.27094534e-03 -6.46454851e-05 1.33559082e-03] w = [-0.02413891 0.96520242 2.05893648] w\_new= [-0.02415162 0.96520178 2.05894984]

gradient= [-1.26908669e-03 -6.45615468e-05 1.33364824e-03] w = [-0.02415162 0.96520178 2.05894984] w\_new= [-0.02416431 0.96520113 2.05896318]

gradient= [-1.26723078e-03 -6.44777160e-05 1.33170850e-03] w = [-0.02416431 0.96520113 2.05896318] w\_new= [-0.02417698 0.96520049 2.05897649]

gradient= [-1.26537759e-03 -6.43939923e-05 1.32977159e-03] w = [-0.02417698 0.96520049 2.05897649] w\_new= [-0.02418963 0.96519984 2.05898979]

gradient= [-1.26352713e-03 -6.43103757e-05 1.32783750e-03] w = [-0.02418963 0.96519984 2.05898979] w\_new= [-0.02420227 0.9651992 2.05900307]

gradient= [-1.26167938e-03 -6.42268661e-05 1.32590624e-03] w = [-0.02420227 0.9651992 2.05900307] w\_new= [-0.02421488 0.96519856 2.05901633]

gradient= [-1.25983434e-03 -6.41434633e-05 1.32397780e-03] w = [-0.02421488 0.96519856 2.05901633] w\_new= [-0.02422748 0.96519791 2.05902957]

gradient= [-1.25799201e-03 -6.40601672e-05 1.32205218e-03] w = [-0.02422748 0.96519791 2.05902957] w\_new= [-0.02424006 0.96519727 2.05904279]

gradient= [-1.25615238e-03 -6.39769777e-05 1.32012936e-03] w = [-0.02424006 0.96519727 2.05904279] w\_new= [-0.02425262 0.96519663 2.05905599]

gradient= [-1.25431546e-03 -6.38938945e-05 1.31820935e-03] w = [-0.02425262 0.96519663 2.05905599] w\_new= [-0.02426517 0.965196 2.05906917]

gradient= [-1.25248123e-03 -6.38109177e-05 1.31629215e-03] w = [-0.02426517 0.965196 2.05906917] w\_new= [-0.02427769 0.96519536 2.05908234]

gradient= [-1.25064970e-03 -6.37280469e-05 1.31437774e-03] w = [-0.02427769 0.96519536 2.05908234] w\_new= [-0.0242902 0.96519472 2.05909548]

gradient= [-1.24882085e-03 -6.36452822e-05 1.31246613e-03] w = [-0.0242902 0.96519472 2.05909548] w\_new= [-0.02430269 0.96519408 2.0591086 ]

gradient= [-1.24699469e-03 -6.35626234e-05 1.31055731e-03] w = [-0.02430269 0.96519408 2.0591086 ] w\_new= [-0.02431516 0.96519345 2.05912171]

gradient= [-1.24517121e-03 -6.34800703e-05 1.30865128e-03] w = [-0.02431516 0.96519345 2.05912171] w\_new= [-0.02432761 0.96519281 2.0591348 ]

gradient= [-1.24335040e-03 -6.33976228e-05 1.30674803e-03] w = [-0.02432761 0.96519281 2.0591348 ] w\_new= [-0.02434004 0.96519218 2.05914786]

gradient= [-1.24153227e-03 -6.33152808e-05 1.30484755e-03] w = [-0.02434004 0.96519218 2.05914786] w\_new= [-0.02435246 0.96519155 2.05916091]

gradient= [-1.23971681e-03 -6.32330442e-05 1.30294985e-03] w = [-0.02435246 0.96519155 2.05916091] w\_new= [-0.02436485 0.96519091 2.05917394]

gradient= [-1.23790401e-03 -6.31509127e-05 1.30105492e-03] w = [-0.02436485 0.96519091 2.05917394] w\_new= [-0.02437723 0.96519028 2.05918695]

gradient= [-1.23609387e-03 -6.30688864e-05 1.29916276e-03] w = [-0.02437723 0.96519028 2.05918695] w\_new= [-0.02438959 0.96518965 2.05919994]

gradient= [-1.23428639e-03 -6.29869649e-05 1.29727336e-03] w = [-0.02438959 0.96518965 2.05919994] w\_new= [-0.02440194 0.96518902 2.05921292]

gradient= [-1.23248157e-03 -6.29051483e-05 1.29538671e-03] w = [-0.02440194 0.96518902 2.05921292] w\_new= [-0.02441426 0.96518839 2.05922587]

gradient= [-1.23067939e-03 -6.28234364e-05 1.29350282e-03] w = [-0.02441426 0.96518839 2.05922587] w\_new= [-0.02442657 0.96518776 2.05923881]

gradient= [-1.22887985e-03 -6.27418290e-05 1.29162168e-03] w = [-0.02442657 0.96518776 2.05923881] w\_new= [-0.02443886 0.96518714 2.05925172]

gradient= [-1.22708296e-03 -6.26603260e-05 1.28974329e-03] w = [-0.02443886 0.96518714 2.05925172] w\_new= [-0.02445113 0.96518651 2.05926462]

gradient= [-1.22528871e-03 -6.25789273e-05 1.28786764e-03] w = [-0.02445113 0.96518651 2.05926462] w\_new= [-0.02446338 0.96518588 2.0592775 ]

gradient= [-1.22349709e-03 -6.24976327e-05 1.28599472e-03] w = [-0.02446338 0.96518588 2.0592775 ] w\_new= [-0.02447562 0.96518526 2.05929036]

gradient= [-1.22170810e-03 -6.24164422e-05 1.28412454e-03] w = [-0.02447562 0.96518526 2.05929036] w\_new= [-0.02448783 0.96518464 2.0593032 ]

gradient= [-1.21992173e-03 -6.23353555e-05 1.28225709e-03] w = [-0.02448783 0.96518464 2.0593032 ] w\_new= [-0.02450003 0.96518401 2.05931602]

gradient= [-1.21813799e-03 -6.22543726e-05 1.28039236e-03] w = [-0.02450003 0.96518401 2.05931602] w\_new= [-0.02451221 0.96518339 2.05932883]

gradient= [-1.21635686e-03 -6.21734933e-05 1.27853035e-03] w = [-0.02451221 0.96518339 2.05932883] w\_new= [-0.02452438 0.96518277 2.05934161]

gradient= [-1.21457835e-03 -6.20927176e-05 1.27667107e-03] w = [-0.02452438 0.96518277 2.05934161] w\_new= [-0.02453652 0.96518215 2.05935438]

gradient= [-1.21280245e-03 -6.20120451e-05 1.27481449e-03] w = [-0.02453652 0.96518215 2.05935438] w\_new= [-0.02454865 0.96518153 2.05936713]

gradient= [-1.21102915e-03 -6.19314759e-05 1.27296063e-03] w = [-0.02454865 0.96518153 2.05936713] w\_new= [-0.02456076 0.96518091 2.05937985]

gradient= [-1.20925846e-03 -6.18510099e-05 1.27110947e-03] w = [-0.02456076 0.96518091 2.05937985] w\_new= [-0.02457285 0.96518029 2.05939257]

gradient= [-1.20749036e-03 -6.17706467e-05 1.26926101e-03] w = [-0.02457285 0.96518029 2.05939257] w\_new= [-0.02458493 0.96517967 2.05940526]

gradient= [-1.20572487e-03 -6.16903865e-05 1.26741525e-03] w = [-0.02458493 0.96517967 2.05940526] w\_new= [-0.02459699 0.96517905 2.05941793]

gradient= [-1.20396196e-03 -6.16102289e-05 1.26557219e-03] w = [-0.02459699 0.96517905 2.05941793] w\_new= [-0.02460903 0.96517844 2.05943059]

gradient= [-1.20220164e-03 -6.15301739e-05 1.26373181e-03] w = [-0.02460903 0.96517844 2.05943059] w\_new= [-0.02462105 0.96517782 2.05944323]

gradient= [-1.20044390e-03 -6.14502213e-05 1.26189412e-03] w = [-0.02462105 0.96517782 2.05944323] w\_new= [-0.02463305 0.96517721 2.05945584]

gradient= [-1.19868874e-03 -6.13703711e-05 1.26005911e-03] w = [-0.02463305 0.96517721 2.05945584] w\_new= [-0.02464504 0.96517659 2.05946845]

gradient= [-1.19693616e-03 -6.12906231e-05 1.25822678e-03] w = [-0.02464504 0.96517659 2.05946845] w\_new= [-0.02465701 0.96517598 2.05948103]

gradient= [-1.19518615e-03 -6.12109771e-05 1.25639712e-03] w = [-0.02465701 0.96517598 2.05948103] w\_new= [-0.02466896 0.96517537 2.05949359]

gradient= [-1.19343870e-03 -6.11314331e-05 1.25457014e-03] w = [-0.02466896 0.96517537 2.05949359] w\_new= [-0.0246809 0.96517476 2.05950614]

gradient= [-1.19169382e-03 -6.10519908e-05 1.25274582e-03] w = [-0.0246809 0.96517476 2.05950614] w\_new= [-0.02469281 0.96517415 2.05951866]

gradient= [-1.18995151e-03 -6.09726503e-05 1.25092416e-03] w = [-0.02469281 0.96517415 2.05951866] w\_new= [-0.02470471 0.96517354 2.05953117]

gradient= [-1.18821175e-03 -6.08934113e-05 1.24910516e-03] w = [-0.02470471 0.96517354 2.05953117] w\_new= [-0.02471659 0.96517293 2.05954366]

gradient= [-1.18647454e-03 -6.08142737e-05 1.24728881e-03] w = [-0.02471659 0.96517293 2.05954366] w\_new= [-0.02472846 0.96517232 2.05955614]

gradient= [-1.18473988e-03 -6.07352373e-05 1.24547512e-03] w = [-0.02472846 0.96517232 2.05955614] w\_new= [-0.02474031 0.96517171 2.05956859]

gradient= [-1.18300776e-03 -6.06563022e-05 1.24366407e-03] w = [-0.02474031 0.96517171 2.05956859] w\_new= [-0.02475214 0.96517111 2.05958103]

gradient= [-1.18127819e-03 -6.05774681e-05 1.24185566e-03] w = [-0.02475214 0.96517111 2.05958103] w\_new= [-0.02476395 0.9651705 2.05959345]

gradient= [-1.17955116e-03 -6.04987349e-05 1.24004989e-03] w = [-0.02476395 0.9651705 2.05959345] w\_new= [-0.02477574 0.9651699 2.05960585]

gradient= [-1.17782666e-03 -6.04201024e-05 1.23824676e-03] w = [-0.02477574 0.9651699 2.05960585] w\_new= [-0.02478752 0.96516929 2.05961823]

gradient= [-1.17610469e-03 -6.03415707e-05 1.23644626e-03] w = [-0.02478752 0.96516929 2.05961823] w\_new= [-0.02479928 0.96516869 2.0596306 ]

gradient= [-1.17438524e-03 -6.02631394e-05 1.23464838e-03] w = [-0.02479928 0.96516869 2.0596306 ] w\_new= [-0.02481103 0.96516809 2.05964294]

gradient= [-1.17266832e-03 -6.01848085e-05 1.23285313e-03] w = [-0.02481103 0.96516809 2.05964294] w\_new= [-0.02482275 0.96516748 2.05965527]

gradient= [-1.17095392e-03 -6.01065779e-05 1.23106050e-03] w = [-0.02482275 0.96516748 2.05965527] w\_new= [-0.02483446 0.96516688 2.05966758]

gradient= [-1.16924204e-03 -6.00284475e-05 1.22927049e-03] w = [-0.02483446 0.96516688 2.05966758] w\_new= [-0.02484616 0.96516628 2.05967987]

gradient= [-1.16753266e-03 -5.99504171e-05 1.22748308e-03] w = [-0.02484616 0.96516628 2.05967987] w\_new= [-0.02485783 0.96516568 2.05969215]

gradient= [-1.16582580e-03 -5.98724865e-05 1.22569829e-03] w = [-0.02485783 0.96516568 2.05969215] w\_new= [-0.02486949 0.96516508 2.05970441]

gradient= [-1.16412144e-03 -5.97946557e-05 1.22391609e-03] w = [-0.02486949 0.96516508 2.05970441] w\_new= [-0.02488113 0.96516449 2.05971664]

gradient= [-1.16241958e-03 -5.97169246e-05 1.22213650e-03] w = [-0.02488113 0.96516449 2.05971664] w\_new= [-0.02489276 0.96516389 2.05972887]

gradient= [-1.16072021e-03 -5.96392929e-05 1.22035951e-03] w = [-0.02489276 0.96516389 2.05972887] w\_new= [-0.02490436 0.96516329 2.05974107]

gradient= [-1.15902334e-03 -5.95617607e-05 1.21858510e-03] w = [-0.02490436 0.96516329 2.05974107] w\_new= [-0.02491595 0.9651627 2.05975326]

gradient= [-1.15732896e-03 -5.94843277e-05 1.21681329e-03] w = [-0.02491595 0.9651627 2.05975326] w\_new= [-0.02492753 0.9651621 2.05976542]

gradient= [-1.15563707e-03 -5.94069938e-05 1.21504406e-03] w = [-0.02492753 0.9651621 2.05976542] w\_new= [-0.02493908 0.96516151 2.05977757]

gradient= [-1.15394765e-03 -5.93297590e-05 1.21327741e-03] w = [-0.02493908 0.96516151 2.05977757] w\_new= [-0.02495062 0.96516092 2.05978971]

gradient= [-1.15226072e-03 -5.92526230e-05 1.21151334e-03] w = [-0.02495062 0.96516092 2.05978971] w\_new= [-0.02496214 0.96516032 2.05980182]

gradient= [-1.15057626e-03 -5.91755858e-05 1.20975184e-03] w = [-0.02496214 0.96516032 2.05980182] w\_new= [-0.02497365 0.96515973 2.05981392]

gradient= [-1.14889427e-03 -5.90986472e-05 1.20799292e-03] w = [-0.02497365 0.96515973 2.05981392] w\_new= [-0.02498514 0.96515914 2.059826 ]

gradient= [-1.14721475e-03 -5.90218072e-05 1.20623656e-03] w = [-0.02498514 0.96515914 2.059826 ] w\_new= [-0.02499661 0.96515855 2.05983806]

gradient= [-1.14553769e-03 -5.89450655e-05 1.20448276e-03] w = [-0.02499661 0.96515855 2.05983806] w\_new= [-0.02500807 0.96515796 2.05985011]

gradient= [-1.14386310e-03 -5.88684221e-05 1.20273152e-03] w = [-0.02500807 0.96515796 2.05985011] w\_new= [-0.02501951 0.96515737 2.05986213]

gradient= [-1.14219096e-03 -5.87918768e-05 1.20098283e-03] w = [-0.02501951 0.96515737 2.05986213] w\_new= [-0.02503093 0.96515678 2.05987414]

gradient= [-1.14052127e-03 -5.87154295e-05 1.19923670e-03] w = [-0.02503093 0.96515678 2.05987414] w\_new= [-0.02504233 0.9651562 2.05988614]

gradient= [-1.13885403e-03 -5.86390801e-05 1.19749311e-03] w = [-0.02504233 0.9651562 2.05988614] w\_new= [-0.02505372 0.96515561 2.05989811]

gradient= [-1.13718924e-03 -5.85628285e-05 1.19575207e-03] w = [-0.02505372 0.96515561 2.05989811] w\_new= [-0.02506509 0.96515502 2.05991007]

gradient= [-1.13552689e-03 -5.84866745e-05 1.19401357e-03] w = [-0.02506509 0.96515502 2.05991007] w\_new= [-0.02507645 0.96515444 2.05992201]

gradient= [-1.13386698e-03 -5.84106180e-05 1.19227760e-03] w = [-0.02507645 0.96515444 2.05992201] w\_new= [-0.02508779 0.96515386 2.05993393]

gradient= [-1.13220951e-03 -5.83346589e-05 1.19054416e-03] w = [-0.02508779 0.96515386 2.05993393] w\_new= [-0.02509911 0.96515327 2.05994584]

gradient= [-1.13055446e-03 -5.82587971e-05 1.18881326e-03] w = [-0.02509911 0.96515327 2.05994584] w\_new= [-0.02511041 0.96515269 2.05995772]

gradient= [-1.12890184e-03 -5.81830324e-05 1.18708488e-03] w = [-0.02511041 0.96515269 2.05995772] w\_new= [-0.0251217 0.96515211 2.0599696 ]

gradient= [-1.12725165e-03 -5.81073648e-05 1.18535902e-03] w = [-0.0251217 0.96515211 2.0599696 ] w\_new= [-0.02513298 0.96515153 2.05998145]

gradient= [-1.12560388e-03 -5.80317941e-05 1.18363567e-03] w = [-0.02513298 0.96515153 2.05998145] w\_new= [-0.02514423 0.96515095 2.05999329]

gradient= [-1.12395852e-03 -5.79563201e-05 1.18191484e-03] w = [-0.02514423 0.96515095 2.05999329] w\_new= [-0.02515547 0.96515037 2.0600051 ]

gradient= [-1.12231558e-03 -5.78809428e-05 1.18019653e-03] w = [-0.02515547 0.96515037 2.0600051 ] w\_new= [-0.02516669 0.96514979 2.06001691]

gradient= [-1.12067505e-03 -5.78056620e-05 1.17848071e-03] w = [-0.02516669 0.96514979 2.06001691] w\_new= [-0.0251779 0.96514921 2.06002869]

gradient= [-1.11903693e-03 -5.77304777e-05 1.17676740e-03] w = [-0.0251779 0.96514921 2.06002869] w\_new= [-0.02518909 0.96514863 2.06004046]

gradient= [-1.11740120e-03 -5.76553896e-05 1.17505659e-03] w = [-0.02518909 0.96514863 2.06004046] w\_new= [-0.02520027 0.96514806 2.06005221]

gradient= [-1.11576788e-03 -5.75803977e-05 1.17334828e-03] w = [-0.02520027 0.96514806 2.06005221] w\_new= [-0.02521142 0.96514748 2.06006394]

gradient= [-1.11413695e-03 -5.75055018e-05 1.17164246e-03] w = [-0.02521142 0.96514748 2.06006394] w\_new= [-0.02522257 0.96514691 2.06007566]

gradient= [-1.11250842e-03 -5.74307019e-05 1.16993912e-03] w = [-0.02522257 0.96514691 2.06007566] w\_new= [-0.02523369 0.96514633 2.06008736]

gradient= [-1.11088227e-03 -5.73559978e-05 1.16823827e-03] w = [-0.02523369 0.96514633 2.06008736] w\_new= [-0.0252448 0.96514576 2.06009904]

gradient= [-1.10925851e-03 -5.72813893e-05 1.16653990e-03] w = [-0.0252448 0.96514576 2.06009904] w\_new= [-0.02525589 0.96514518 2.06011071]

gradient= [-1.10763713e-03 -5.72068765e-05 1.16484401e-03] w = [-0.02525589 0.96514518 2.06011071] w\_new= [-0.02526697 0.96514461 2.06012236]

gradient= [-1.10601813e-03 -5.71324590e-05 1.16315059e-03] w = [-0.02526697 0.96514461 2.06012236] w\_new= [-0.02527803 0.96514404 2.06013399]

gradient= [-1.10440150e-03 -5.70581369e-05 1.16145964e-03] w = [-0.02527803 0.96514404 2.06013399] w\_new= [-0.02528907 0.96514347 2.0601456 ]

gradient= [-1.10278725e-03 -5.69839100e-05 1.15977116e-03] w = [-0.02528907 0.96514347 2.0601456 ] w\_new= [-0.0253001 0.9651429 2.0601572]

gradient= [-1.10117536e-03 -5.69097781e-05 1.15808514e-03] w = [-0.0253001 0.9651429 2.0601572] w\_new= [-0.02531111 0.96514233 2.06016878]

gradient= [-1.09956583e-03 -5.68357413e-05 1.15640158e-03] w = [-0.02531111 0.96514233 2.06016878] w\_new= [-0.02532211 0.96514176 2.06018034]

gradient= [-1.09795867e-03 -5.67617992e-05 1.15472047e-03] w = [-0.02532211 0.96514176 2.06018034] w\_new= [-0.02533309 0.9651412 2.06019189]

gradient= [-1.09635386e-03 -5.66879519e-05 1.15304182e-03] w = [-0.02533309 0.9651412 2.06019189] w\_new= [-0.02534405 0.96514063 2.06020342]

gradient= [-1.09475141e-03 -5.66141992e-05 1.15136561e-03] w = [-0.02534405 0.96514063 2.06020342] w\_new= [-0.025355 0.96514006 2.06021494]

gradient= [-1.09315131e-03 -5.65405409e-05 1.14969185e-03] w = [-0.025355 0.96514006 2.06021494] w\_new= [-0.02536593 0.9651395 2.06022643]

gradient= [-1.09155355e-03 -5.64669770e-05 1.14802053e-03] w = [-0.02536593 0.9651395 2.06022643] w\_new= [-0.02537685 0.96513893 2.06023791]

gradient= [-1.08995814e-03 -5.63935074e-05 1.14635165e-03] w = [-0.02537685 0.96513893 2.06023791] w\_new= [-0.02538774 0.96513837 2.06024938]

gradient= [-1.08836507e-03 -5.63201319e-05 1.14468520e-03] w = [-0.02538774 0.96513837 2.06024938] w\_new= [-0.02539863 0.96513781 2.06026082]

gradient= [-1.08677433e-03 -5.62468504e-05 1.14302118e-03] w = [-0.02539863 0.96513781 2.06026082] w\_new= [-0.0254095 0.96513724 2.06027225]

gradient= [-1.08518592e-03 -5.61736627e-05 1.14135959e-03] w = [-0.0254095 0.96513724 2.06027225] w\_new= [-0.02542035 0.96513668 2.06028367]

gradient= [-1.08359985e-03 -5.61005688e-05 1.13970042e-03] w = [-0.02542035 0.96513668 2.06028367] w\_new= [-0.02543118 0.96513612 2.06029506]

gradient= [-1.08201610e-03 -5.60275686e-05 1.13804367e-03] w = [-0.02543118 0.96513612 2.06029506] w\_new= [-0.025442 0.96513556 2.06030644]

gradient= [-1.08043467e-03 -5.59546619e-05 1.13638934e-03] w = [-0.025442 0.96513556 2.06030644] w\_new= [-0.02545281 0.965135 2.06031781]

gradient= [-1.07885557e-03 -5.58818486e-05 1.13473742e-03] w = [-0.02545281 0.965135 2.06031781] w\_new= [-0.0254636 0.96513444 2.06032916]

gradient= [-1.07727878e-03 -5.58091286e-05 1.13308790e-03] w = [-0.0254636 0.96513444 2.06032916] w\_new= [-0.02547437 0.96513388 2.06034049]

gradient= [-1.07570430e-03 -5.57365018e-05 1.13144080e-03] w = [-0.02547437 0.96513388 2.06034049] w\_new= [-0.02548513 0.96513333 2.0603518 ]

gradient= [-1.07413213e-03 -5.56639681e-05 1.12979609e-03] w = [-0.02548513 0.96513333 2.0603518 ] w\_new= [-0.02549587 0.96513277 2.0603631 ]

gradient= [-1.07256226e-03 -5.55915272e-05 1.12815379e-03] w = [-0.02549587 0.96513277 2.0603631 ] w\_new= [-0.02550659 0.96513221 2.06037438]

gradient= [-1.07099470e-03 -5.55191792e-05 1.12651388e-03] w = [-0.02550659 0.96513221 2.06037438] w\_new= [-0.0255173 0.96513166 2.06038565]

gradient= [-1.06942943e-03 -5.54469239e-05 1.12487636e-03] w = [-0.0255173 0.96513166 2.06038565] w\_new= [-0.025528 0.9651311 2.06039689]

gradient= [-1.06786647e-03 -5.53747612e-05 1.12324123e-03] w = [-0.025528 0.9651311 2.06039689] w\_new= [-0.02553868 0.96513055 2.06040813]

gradient= [-1.06630579e-03 -5.53026909e-05 1.12160848e-03] w = [-0.02553868 0.96513055 2.06040813] w\_new= [-0.02554934 0.96513 2.06041934]

gradient= [-1.06474740e-03 -5.52307130e-05 1.11997811e-03] w = [-0.02554934 0.96513 2.06041934] w\_new= [-0.02555999 0.96512944 2.06043054]

gradient= [-1.06319130e-03 -5.51588274e-05 1.11835012e-03] w = [-0.02555999 0.96512944 2.06043054] w\_new= [-0.02557062 0.96512889 2.06044173]

gradient= [-1.06163747e-03 -5.50870338e-05 1.11672451e-03] w = [-0.02557062 0.96512889 2.06044173] w\_new= [-0.02558124 0.96512834 2.06045289]

gradient= [-1.06008593e-03 -5.50153323e-05 1.11510126e-03] w = [-0.02558124 0.96512834 2.06045289] w\_new= [-0.02559184 0.96512779 2.06046404]

gradient= [-1.05853666e-03 -5.49437226e-05 1.11348039e-03] w = [-0.02559184 0.96512779 2.06046404] w\_new= [-0.02560242 0.96512724 2.06047518]

gradient= [-1.05698967e-03 -5.48722048e-05 1.11186187e-03] w = [-0.02560242 0.96512724 2.06047518] w\_new= [-0.02561299 0.96512669 2.0604863 ]

gradient= [-1.05544494e-03 -5.48007785e-05 1.11024572e-03] w = [-0.02561299 0.96512669 2.0604863 ] w\_new= [-0.02562355 0.96512615 2.0604974 ]

gradient= [-1.05390247e-03 -5.47294438e-05 1.10863192e-03] w = [-0.02562355 0.96512615 2.0604974 ] w\_new= [-0.02563409 0.9651256 2.06050849]

gradient= [-1.05236227e-03 -5.46582006e-05 1.10702047e-03] w = [-0.02563409 0.9651256 2.06050849] w\_new= [-0.02564461 0.96512505 2.06051956]

gradient= [-1.05082433e-03 -5.45870486e-05 1.10541138e-03] w = [-0.02564461 0.96512505 2.06051956] w\_new= [-0.02565512 0.96512451 2.06053061]

gradient= [-1.04928864e-03 -5.45159878e-05 1.10380463e-03] w = [-0.02565512 0.96512451 2.06053061] w\_new= [-0.02566561 0.96512396 2.06054165]

gradient= [-1.04775520e-03 -5.44450181e-05 1.10220022e-03] w = [-0.02566561 0.96512396 2.06054165] w\_new= [-0.02567609 0.96512342 2.06055267]

gradient= [-1.04622401e-03 -5.43741394e-05 1.10059815e-03] w = [-0.02567609 0.96512342 2.06055267] w\_new= [-0.02568655 0.96512287 2.06056368]

gradient= [-1.04469507e-03 -5.43033515e-05 1.09899842e-03] w = [-0.02568655 0.96512287 2.06056368] w\_new= [-0.025697 0.96512233 2.06057467]

gradient= [-1.04316837e-03 -5.42326543e-05 1.09740102e-03] w = [-0.025697 0.96512233 2.06057467] w\_new= [-0.02570743 0.96512179 2.06058564]

gradient= [-1.04164390e-03 -5.41620478e-05 1.09580595e-03] w = [-0.02570743 0.96512179 2.06058564] w\_new= [-0.02571784 0.96512125 2.0605966 ]

gradient= [-1.04012168e-03 -5.40915317e-05 1.09421321e-03] w = [-0.02571784 0.96512125 2.0605966 ] w\_new= [-0.02572825 0.96512071 2.06060754]

gradient= [-1.03860168e-03 -5.40211061e-05 1.09262279e-03] w = [-0.02572825 0.96512071 2.06060754] w\_new= [-0.02573863 0.96512016 2.06061847]

gradient= [-1.03708391e-03 -5.39507707e-05 1.09103468e-03] w = [-0.02573863 0.96512016 2.06061847] w\_new= [-0.025749 0.96511963 2.06062938]

gradient= [-1.03556837e-03 -5.38805254e-05 1.08944889e-03] w = [-0.025749 0.96511963 2.06062938] w\_new= [-0.02575936 0.96511909 2.06064027]

gradient= [-1.03405505e-03 -5.38103703e-05 1.08786542e-03] w = [-0.02575936 0.96511909 2.06064027] w\_new= [-0.0257697 0.96511855 2.06065115]

gradient= [-1.03254394e-03 -5.37403050e-05 1.08628425e-03] w = [-0.0257697 0.96511855 2.06065115] w\_new= [-0.02578002 0.96511801 2.06066201]

gradient= [-1.03103506e-03 -5.36703296e-05 1.08470539e-03] w = [-0.02578002 0.96511801 2.06066201] w\_new= [-0.02579033 0.96511747 2.06067286]

gradient= [-1.02952838e-03 -5.36004438e-05 1.08312882e-03] w = [-0.02579033 0.96511747 2.06067286] w\_new= [-0.02580063 0.96511694 2.06068369]

gradient= [-1.02802391e-03 -5.35306477e-05 1.08155456e-03] w = [-0.02580063 0.96511694 2.06068369] w\_new= [-0.02581091 0.9651164 2.06069451]

gradient= [-1.02652165e-03 -5.34609410e-05 1.07998259e-03] w = [-0.02581091 0.9651164 2.06069451] w\_new= [-0.02582118 0.96511587 2.06070531]

gradient= [-1.02502159e-03 -5.33913237e-05 1.07841292e-03] w = [-0.02582118 0.96511587 2.06070531] w\_new= [-0.02583143 0.96511533 2.06071609]

gradient= [-1.02352373e-03 -5.33217957e-05 1.07684553e-03] w = [-0.02583143 0.96511533 2.06071609] w\_new= [-0.02584166 0.9651148 2.06072686]

gradient= [-1.02202807e-03 -5.32523567e-05 1.07528043e-03] w = [-0.02584166 0.9651148 2.06072686] w\_new= [-0.02585188 0.96511427 2.06073761]

gradient= [-1.02053460e-03 -5.31830068e-05 1.07371761e-03] w = [-0.02585188 0.96511427 2.06073761] w\_new= [-0.02586209 0.96511374 2.06074835]

gradient= [-1.01904332e-03 -5.31137459e-05 1.07215706e-03] w = [-0.02586209 0.96511374 2.06074835] w\_new= [-0.02587228 0.96511321 2.06075907]

gradient= [-1.01755422e-03 -5.30445737e-05 1.07059880e-03] w = [-0.02587228 0.96511321 2.06075907] w\_new= [-0.02588245 0.96511268 2.06076978]

gradient= [-1.01606731e-03 -5.29754902e-05 1.06904280e-03] w = [-0.02588245 0.96511268 2.06076978] w\_new= [-0.02589261 0.96511215 2.06078047]

gradient= [-1.01458258e-03 -5.29064953e-05 1.06748907e-03] w = [-0.02589261 0.96511215 2.06078047] w\_new= [-0.02590276 0.96511162 2.06079114]

gradient= [-1.01310002e-03 -5.28375888e-05 1.06593761e-03] w = [-0.02590276 0.96511162 2.06079114] w\_new= [-0.02591289 0.96511109 2.0608018 ]

gradient= [-1.01161964e-03 -5.27687707e-05 1.06438841e-03] w = [-0.02591289 0.96511109 2.0608018 ] w\_new= [-0.02592301 0.96511056 2.06081245]

gradient= [-1.01014142e-03 -5.27000408e-05 1.06284146e-03] w = [-0.02592301 0.96511056 2.06081245] w\_new= [-0.02593311 0.96511003 2.06082307]

gradient= [-1.00866538e-03 -5.26313991e-05 1.06129677e-03] w = [-0.02593311 0.96511003 2.06082307] w\_new= [-0.02594319 0.96510951 2.06083369]

gradient= [-1.00719149e-03 -5.25628454e-05 1.05975434e-03] w = [-0.02594319 0.96510951 2.06083369] w\_new= [-0.02595327 0.96510898 2.06084428]

gradient= [-1.00571977e-03 -5.24943795e-05 1.05821415e-03] w = [-0.02595327 0.96510898 2.06084428] w\_new= [-0.02596332 0.96510846 2.06085487]

gradient= [-1.00425020e-03 -5.24260015e-05 1.05667621e-03] w = [-0.02596332 0.96510846 2.06085487] w\_new= [-0.02597337 0.96510793 2.06086543]

gradient= [-1.00278279e-03 -5.23577112e-05 1.05514050e-03] w = [-0.02597337 0.96510793 2.06086543] w\_new= [-0.02598339 0.96510741 2.06087599]

gradient= [-1.00131753e-03 -5.22895084e-05 1.05360704e-03] w = [-0.02598339 0.96510741 2.06087599] w\_new= [-0.02599341 0.96510689 2.06088652]

gradient= [-9.99854420e-04 -5.22213931e-05 1.05207581e-03] w = [-0.02599341 0.96510689 2.06088652] w\_new= [-0.02600341 0.96510636 2.06089704]

gradient= [-9.98393452e-04 -5.21533651e-05 1.05054682e-03] w = [-0.02600341 0.96510636 2.06089704] w\_new= [-0.02601339 0.96510584 2.06090755]

gradient= [-9.96934626e-04 -5.20854244e-05 1.04902005e-03] w = [-0.02601339 0.96510584 2.06090755] w\_new= [-0.02602336 0.96510532 2.06091804]

gradient= [-9.95477937e-04 -5.20175708e-05 1.04749551e-03] w = [-0.02602336 0.96510532 2.06091804] w\_new= [-0.02603331 0.9651048 2.06092851]

gradient= [-9.94023384e-04 -5.19498043e-05 1.04597319e-03] w = [-0.02603331 0.9651048 2.06092851] w\_new= [-0.02604325 0.96510428 2.06093897]

gradient= [-9.92570963e-04 -5.18821246e-05 1.04445309e-03] w = [-0.02604325 0.96510428 2.06093897] w\_new= [-0.02605318 0.96510376 2.06094942]

gradient= [-9.91120670e-04 -5.18145318e-05 1.04293520e-03] w = [-0.02605318 0.96510376 2.06094942] w\_new= [-0.02606309 0.96510324 2.06095985]

gradient= [-9.89672503e-04 -5.17470256e-05 1.04141953e-03] w = [-0.02606309 0.96510324 2.06095985] w\_new= [-0.02607299 0.96510273 2.06097026]

gradient= [-9.88226459e-04 -5.16796060e-05 1.03990607e-03] w = [-0.02607299 0.96510273 2.06097026] w\_new= [-0.02608287 0.96510221 2.06098066]

gradient= [-9.86782534e-04 -5.16122729e-05 1.03839481e-03] w = [-0.02608287 0.96510221 2.06098066] w\_new= [-0.02609274 0.96510169 2.06099104]

gradient= [-9.85340726e-04 -5.15450261e-05 1.03688575e-03] w = [-0.02609274 0.96510169 2.06099104] w\_new= [-0.02610259 0.96510118 2.06100141]

gradient= [-9.83901030e-04 -5.14778656e-05 1.03537890e-03] w = [-0.02610259 0.96510118 2.06100141] w\_new= [-0.02611243 0.96510066 2.06101177]

gradient= [-9.82463445e-04 -5.14107913e-05 1.03387424e-03] w = [-0.02611243 0.96510066 2.06101177] w\_new= [-0.02612225 0.96510015 2.0610221 ]

gradient= [-9.81027966e-04 -5.13438029e-05 1.03237177e-03] w = [-0.02612225 0.96510015 2.0610221 ] w\_new= [-0.02613206 0.96509964 2.06103243]

gradient= [-9.79594592e-04 -5.12769005e-05 1.03087149e-03] w = [-0.02613206 0.96509964 2.06103243] w\_new= [-0.02614186 0.96509912 2.06104274]

gradient= [-9.78163318e-04 -5.12100840e-05 1.02937340e-03] w = [-0.02614186 0.96509912 2.06104274] w\_new= [-0.02615164 0.96509861 2.06105303]

gradient= [-9.76734141e-04 -5.11433531e-05 1.02787749e-03] w = [-0.02615164 0.96509861 2.06105303] w\_new= [-0.02616141 0.9650981 2.06106331]

gradient= [-9.75307060e-04 -5.10767078e-05 1.02638377e-03] w = [-0.02616141 0.9650981 2.06106331] w\_new= [-0.02617116 0.96509759 2.06107357]

gradient= [-9.73882069e-04 -5.10101480e-05 1.02489222e-03] w = [-0.02617116 0.96509759 2.06107357] w\_new= [-0.0261809 0.96509708 2.06108382]

gradient= [-9.72459168e-04 -5.09436736e-05 1.02340284e-03] w = [-0.0261809 0.96509708 2.06108382] w\_new= [-0.02619063 0.96509657 2.06109406]

gradient= [-9.71038351e-04 -5.08772845e-05 1.02191564e-03] w = [-0.02619063 0.96509657 2.06109406] w\_new= [-0.02620034 0.96509606 2.06110428]

gradient= [-9.69619616e-04 -5.08109805e-05 1.02043060e-03] w = [-0.02620034 0.96509606 2.06110428] w\_new= [-0.02621003 0.96509555 2.06111448]

gradient= [-9.68202961e-04 -5.07447616e-05 1.01894772e-03] w = [-0.02621003 0.96509555 2.06111448] w\_new= [-0.02621971 0.96509505 2.06112467]

gradient= [-9.66788382e-04 -5.06786277e-05 1.01746701e-03] w = [-0.02621971 0.96509505 2.06112467] w\_new= [-0.02622938 0.96509454 2.06113484]

gradient= [-9.65375876e-04 -5.06125786e-05 1.01598845e-03] w = [-0.02622938 0.96509454 2.06113484] w\_new= [-0.02623904 0.96509403 2.061145 ]

gradient= [-9.63965440e-04 -5.05466142e-05 1.01451205e-03] w = [-0.02623904 0.96509403 2.061145 ] w\_new= [-0.02624868 0.96509353 2.06115515]

gradient= [-9.62557070e-04 -5.04807345e-05 1.01303780e-03] w = [-0.02624868 0.96509353 2.06115515] w\_new= [-0.0262583 0.96509302 2.06116528]

gradient= [-9.61150765e-04 -5.04149393e-05 1.01156570e-03] w = [-0.0262583 0.96509302 2.06116528] w\_new= [-0.02626791 0.96509252 2.0611754 ]

gradient= [-9.59746520e-04 -5.03492285e-05 1.01009575e-03] w = [-0.02626791 0.96509252 2.0611754 ] w\_new= [-0.02627751 0.96509201 2.0611855 ]

gradient= [-9.58344333e-04 -5.02836020e-05 1.00862794e-03] w = [-0.02627751 0.96509201 2.0611855 ] w\_new= [-0.02628709 0.96509151 2.06119558]

gradient= [-9.56944201e-04 -5.02180597e-05 1.00716226e-03] w = [-0.02628709 0.96509151 2.06119558] w\_new= [-0.02629666 0.96509101 2.06120565]

gradient= [-9.55546121e-04 -5.01526015e-05 1.00569872e-03] w = [-0.02629666 0.96509101 2.06120565] w\_new= [-0.02630622 0.96509051 2.06121571]

gradient= [-9.54150089e-04 -5.00872274e-05 1.00423732e-03] w = [-0.02630622 0.96509051 2.06121571] w\_new= [-0.02631576 0.96509001 2.06122575]

gradient= [-9.52756103e-04 -5.00219370e-05 1.00277804e-03] w = [-0.02631576 0.96509001 2.06122575] w\_new= [-0.02632529 0.96508951 2.06123578]

gradient= [-9.51364160e-04 -4.99567305e-05 1.00132089e-03] w = [-0.02632529 0.96508951 2.06123578] w\_new= [-0.0263348 0.96508901 2.06124579]

gradient= [-9.49974257e-04 -4.98916076e-05 9.99865864e-04] w = [-0.0263348 0.96508901 2.06124579] w\_new= [-0.0263443 0.96508851 2.06125579]

gradient= [-9.48586390e-04 -4.98265684e-05 9.98412958e-04] w = [-0.0263443 0.96508851 2.06125579] w\_new= [-0.02635379 0.96508801 2.06126578]

gradient= [-9.47200556e-04 -4.97616125e-05 9.96962169e-04] w = [-0.02635379 0.96508801 2.06126578] w\_new= [-0.02636326 0.96508751 2.06127575]

gradient= [-9.45816754e-04 -4.96967400e-05 9.95513494e-04] w = [-0.02636326 0.96508751 2.06127575] w\_new= [-0.02637272 0.96508702 2.0612857 ]

gradient= [-9.44434979e-04 -4.96319508e-05 9.94066929e-04] w = [-0.02637272 0.96508702 2.0612857 ] w\_new= [-0.02638216 0.96508652 2.06129564]

gradient= [-9.43055228e-04 -4.95672447e-05 9.92622473e-04] w = [-0.02638216 0.96508652 2.06129564] w\_new= [-0.02639159 0.96508602 2.06130557]

gradient= [-9.41677500e-04 -4.95026217e-05 9.91180121e-04] w = [-0.02639159 0.96508602 2.06130557] w\_new= [-0.02640101 0.96508553 2.06131548]

gradient= [-9.40301790e-04 -4.94380816e-05 9.89739871e-04] w = [-0.02640101 0.96508553 2.06131548] w\_new= [-0.02641041 0.96508503 2.06132538]

gradient= [-9.38928096e-04 -4.93736243e-05 9.88301720e-04] w = [-0.02641041 0.96508503 2.06132538] w\_new= [-0.0264198 0.96508454 2.06133526]

gradient= [-9.37556414e-04 -4.93092497e-05 9.86865664e-04] w = [-0.0264198 0.96508454 2.06133526] w\_new= [-0.02642918 0.96508405 2.06134513]

gradient= [-9.36186743e-04 -4.92449578e-05 9.85431700e-04] w = [-0.02642918 0.96508405 2.06134513] w\_new= [-0.02643854 0.96508356 2.06135498]

gradient= [-9.34819078e-04 -4.91807483e-05 9.83999826e-04] w = [-0.02643854 0.96508356 2.06135498] w\_new= [-0.02644789 0.96508306 2.06136482]

gradient= [-9.33453417e-04 -4.91166213e-05 9.82570038e-04] w = [-0.02644789 0.96508306 2.06136482] w\_new= [-0.02645722 0.96508257 2.06137465]

gradient= [-9.32089757e-04 -4.90525766e-05 9.81142334e-04] w = [-0.02645722 0.96508257 2.06137465] w\_new= [-0.02646654 0.96508208 2.06138446]

gradient= [-9.30728095e-04 -4.89886141e-05 9.79716709e-04] w = [-0.02646654 0.96508208 2.06138446] w\_new= [-0.02647585 0.96508159 2.06139426]

gradient= [-9.29368428e-04 -4.89247337e-05 9.78293162e-04] w = [-0.02647585 0.96508159 2.06139426] w\_new= [-0.02648514 0.9650811 2.06140404]

gradient= [-9.28010753e-04 -4.88609353e-05 9.76871689e-04] w = [-0.02648514 0.9650811 2.06140404] w\_new= [-0.02649442 0.96508061 2.06141381]

gradient= [-9.26655068e-04 -4.87972188e-05 9.75452287e-04] w = [-0.02649442 0.96508061 2.06141381] w\_new= [-0.02650369 0.96508013 2.06142356]

gradient= [-9.25301368e-04 -4.87335840e-05 9.74034952e-04] w = [-0.02650369 0.96508013 2.06142356] w\_new= [-0.02651294 0.96507964 2.0614333 ]

gradient= [-9.23949652e-04 -4.86700310e-05 9.72619683e-04] w = [-0.02651294 0.96507964 2.0614333 ] w\_new= [-0.02652218 0.96507915 2.06144303]

gradient= [-9.22599916e-04 -4.86065595e-05 9.71206476e-04] w = [-0.02652218 0.96507915 2.06144303] w\_new= [-0.02653141 0.96507867 2.06145274]

gradient= [-9.21252158e-04 -4.85431695e-05 9.69795328e-04] w = [-0.02653141 0.96507867 2.06145274] w\_new= [-0.02654062 0.96507818 2.06146244]

gradient= [-9.19906375e-04 -4.84798609e-05 9.68386235e-04] w = [-0.02654062 0.96507818 2.06146244] w\_new= [-0.02654982 0.9650777 2.06147212]

gradient= [-9.18562562e-04 -4.84166335e-05 9.66979196e-04] w = [-0.02654982 0.9650777 2.06147212] w\_new= [-0.02655901 0.96507721 2.06148179]

gradient= [-9.17220719e-04 -4.83534874e-05 9.65574207e-04] w = [-0.02655901 0.96507721 2.06148179] w\_new= [-0.02656818 0.96507673 2.06149145]

gradient= [-9.15880842e-04 -4.82904222e-05 9.64171264e-04] w = [-0.02656818 0.96507673 2.06149145] w\_new= [-0.02657734 0.96507624 2.06150109]

gradient= [-9.14542927e-04 -4.82274381e-05 9.62770365e-04] w = [-0.02657734 0.96507624 2.06150109] w\_new= [-0.02658648 0.96507576 2.06151072]

gradient= [-9.13206973e-04 -4.81645348e-05 9.61371508e-04] w = [-0.02658648 0.96507576 2.06151072] w\_new= [-0.02659561 0.96507528 2.06152033]

gradient= [-9.11872975e-04 -4.81017123e-05 9.59974688e-04] w = [-0.02659561 0.96507528 2.06152033] w\_new= [-0.02660473 0.9650748 2.06152993]

gradient= [-9.10540932e-04 -4.80389704e-05 9.58579903e-04] w = [-0.02660473 0.9650748 2.06152993] w\_new= [-0.02661384 0.96507432 2.06153952]

gradient= [-9.09210841e-04 -4.79763091e-05 9.57187150e-04] w = [-0.02661384 0.96507432 2.06153952] w\_new= [-0.02662293 0.96507384 2.06154909]

gradient= [-9.07882698e-04 -4.79137282e-05 9.55796426e-04] w = [-0.02662293 0.96507384 2.06154909] w\_new= [-0.02663201 0.96507336 2.06155865]

gradient= [-9.06556500e-04 -4.78512277e-05 9.54407728e-04] w = [-0.02663201 0.96507336 2.06155865] w\_new= [-0.02664108 0.96507288 2.06156819]

gradient= [-9.05232246e-04 -4.77888074e-05 9.53021053e-04] w = [-0.02664108 0.96507288 2.06156819] w\_new= [-0.02665013 0.9650724 2.06157772]

gradient= [-9.03909931e-04 -4.77264673e-05 9.51636398e-04] w = [-0.02665013 0.9650724 2.06157772] w\_new= [-0.02665917 0.96507193 2.06158724]

gradient= [-9.02589553e-04 -4.76642072e-05 9.50253761e-04] w = [-0.02665917 0.96507193 2.06158724] w\_new= [-0.02666819 0.96507145 2.06159674]

gradient= [-9.01271110e-04 -4.76020271e-05 9.48873137e-04] w = [-0.02666819 0.96507145 2.06159674] w\_new= [-0.02667721 0.96507097 2.06160623]

gradient= [-8.99954598e-04 -4.75399268e-05 9.47494525e-04] w = [-0.02667721 0.96507097 2.06160623] w\_new= [-0.0266862 0.9650705 2.06161571]

gradient= [-8.98640015e-04 -4.74779062e-05 9.46117921e-04] w = [-0.0266862 0.9650705 2.06161571] w\_new= [-0.02669519 0.96507002 2.06162517]

gradient= [-8.97327357e-04 -4.74159653e-05 9.44743322e-04] w = [-0.02669519 0.96507002 2.06162517] w\_new= [-0.02670416 0.96506955 2.06163461]

gradient= [-8.96016622e-04 -4.73541040e-05 9.43370726e-04] w = [-0.02670416 0.96506955 2.06163461] w\_new= [-0.02671312 0.96506908 2.06164405]

gradient= [-8.94707807e-04 -4.72923220e-05 9.42000129e-04] w = [-0.02671312 0.96506908 2.06164405] w\_new= [-0.02672207 0.9650686 2.06165347]

gradient= [-8.93400909e-04 -4.72306194e-05 9.40631529e-04] w = [-0.02672207 0.9650686 2.06165347] w\_new= [-0.02673101 0.96506813 2.06166287]

gradient= [-8.92095926e-04 -4.71689961e-05 9.39264922e-04] w = [-0.02673101 0.96506813 2.06166287] w\_new= [-0.02673993 0.96506766 2.06167227]

gradient= [-8.90792854e-04 -4.71074519e-05 9.37900306e-04] w = [-0.02673993 0.96506766 2.06167227] w\_new= [-0.02674883 0.96506719 2.06168165]

gradient= [-8.89491691e-04 -4.70459867e-05 9.36537678e-04] w = [-0.02674883 0.96506719 2.06168165] w\_new= [-0.02675773 0.96506672 2.06169101]

gradient= [-8.88192434e-04 -4.69846005e-05 9.35177034e-04] w = [-0.02675773 0.96506672 2.06169101] w\_new= [-0.02676661 0.96506625 2.06170036]

gradient= [-8.86895080e-04 -4.69232931e-05 9.33818373e-04] w = [-0.02676661 0.96506625 2.06170036] w\_new= [-0.02677548 0.96506578 2.0617097 ]

gradient= [-8.85599626e-04 -4.68620644e-05 9.32461691e-04] w = [-0.02677548 0.96506578 2.0617097 ] w\_new= [-0.02678434 0.96506531 2.06171903]

gradient= [-8.84306070e-04 -4.68009144e-05 9.31106984e-04] w = [-0.02678434 0.96506531 2.06171903] w\_new= [-0.02679318 0.96506484 2.06172834]

gradient= [-8.83014409e-04 -4.67398430e-05 9.29754252e-04] w = [-0.02679318 0.96506484 2.06172834] w\_new= [-0.02680201 0.96506437 2.06173763]

gradient= [-8.81724639e-04 -4.66788499e-05 9.28403489e-04] w = [-0.02680201 0.96506437 2.06173763] w\_new= [-0.02681083 0.96506391 2.06174692]

gradient= [-8.80436759e-04 -4.66179352e-05 9.27054694e-04] w = [-0.02681083 0.96506391 2.06174692] w\_new= [-0.02681963 0.96506344 2.06175619]

gradient= [-8.79150765e-04 -4.65570988e-05 9.25707863e-04] w = [-0.02681963 0.96506344 2.06175619] w\_new= [-0.02682842 0.96506298 2.06176545]

gradient= [-8.77866654e-04 -4.64963405e-05 9.24362995e-04] w = [-0.02682842 0.96506298 2.06176545] w\_new= [-0.0268372 0.96506251 2.06177469]

gradient= [-8.76584425e-04 -4.64356602e-05 9.23020085e-04] w = [-0.0268372 0.96506251 2.06177469] w\_new= [-0.02684597 0.96506205 2.06178392]

gradient= [-8.75304073e-04 -4.63750579e-05 9.21679131e-04] w = [-0.02684597 0.96506205 2.06178392] w\_new= [-0.02685472 0.96506158 2.06179314]

gradient= [-8.74025597e-04 -4.63145335e-05 9.20340130e-04] w = [-0.02685472 0.96506158 2.06179314] w\_new= [-0.02686346 0.96506112 2.06180234]

gradient= [-8.72748993e-04 -4.62540867e-05 9.19003080e-04] w = [-0.02686346 0.96506112 2.06180234] w\_new= [-0.02687219 0.96506066 2.06181153]

gradient= [-8.71474259e-04 -4.61937177e-05 9.17667977e-04] w = [-0.02687219 0.96506066 2.06181153] w\_new= [-0.0268809 0.9650602 2.06182071]

gradient= [-8.70201392e-04 -4.61334262e-05 9.16334818e-04] w = [-0.0268809 0.9650602 2.06182071] w\_new= [-0.0268896 0.96505973 2.06182987]

gradient= [-8.68930389e-04 -4.60732121e-05 9.15003601e-04] w = [-0.0268896 0.96505973 2.06182987] w\_new= [-0.02689829 0.96505927 2.06183902]

gradient= [-8.67661248e-04 -4.60130754e-05 9.13674324e-04] w = [-0.02689829 0.96505927 2.06183902] w\_new= [-0.02690697 0.96505881 2.06184816]

gradient= [-8.66393966e-04 -4.59530160e-05 9.12346982e-04] w = [-0.02690697 0.96505881 2.06184816] w\_new= [-0.02691563 0.96505835 2.06185728]

gradient= [-8.65128539e-04 -4.58930337e-05 9.11021573e-04] w = [-0.02691563 0.96505835 2.06185728] w\_new= [-0.02692429 0.9650579 2.06186639]

gradient= [-8.63864966e-04 -4.58331285e-05 9.09698095e-04] w = [-0.02692429 0.9650579 2.06186639] w\_new= [-0.02693292 0.96505744 2.06187549]

gradient= [-8.62603244e-04 -4.57733002e-05 9.08376544e-04] w = [-0.02693292 0.96505744 2.06187549] w\_new= [-0.02694155 0.96505698 2.06188457]

gradient= [-8.61343369e-04 -4.57135488e-05 9.07056918e-04] w = [-0.02694155 0.96505698 2.06188457] w\_new= [-0.02695016 0.96505652 2.06189364]

gradient= [-8.60085340e-04 -4.56538742e-05 9.05739214e-04] w = [-0.02695016 0.96505652 2.06189364] w\_new= [-0.02695876 0.96505607 2.0619027 ]

gradient= [-8.58829153e-04 -4.55942762e-05 9.04423429e-04] w = [-0.02695876 0.96505607 2.0619027 ] w\_new= [-0.02696735 0.96505561 2.06191174]

gradient= [-8.57574805e-04 -4.55347549e-05 9.03109560e-04] w = [-0.02696735 0.96505561 2.06191174] w\_new= [-0.02697593 0.96505515 2.06192077]

gradient= [-8.56322295e-04 -4.54753100e-05 9.01797605e-04] w = [-0.02697593 0.96505515 2.06192077] w\_new= [-0.02698449 0.9650547 2.06192979]

gradient= [-8.55071619e-04 -4.54159415e-05 9.00487560e-04] w = [-0.02698449 0.9650547 2.06192979] w\_new= [-0.02699304 0.96505425 2.0619388 ]

gradient= [-8.53822774e-04 -4.53566492e-05 8.99179423e-04] w = [-0.02699304 0.96505425 2.0619388 ] w\_new= [-0.02700158 0.96505379 2.06194779]

gradient= [-8.52575759e-04 -4.52974332e-05 8.97873192e-04] w = [-0.02700158 0.96505379 2.06194779] w\_new= [-0.02701011 0.96505334 2.06195677]

gradient= [-8.51330569e-04 -4.52382933e-05 8.96568862e-04] w = [-0.02701011 0.96505334 2.06195677] w\_new= [-0.02701862 0.96505289 2.06196573]

gradient= [-8.50087203e-04 -4.51792293e-05 8.95266433e-04] w = [-0.02701862 0.96505289 2.06196573] w\_new= [-0.02702712 0.96505243 2.06197469]

gradient= [-8.48845658e-04 -4.51202413e-05 8.93965899e-04] w = [-0.02702712 0.96505243 2.06197469] w\_new= [-0.02703561 0.96505198 2.06198363]

gradient= [-8.47605931e-04 -4.50613291e-05 8.92667260e-04] w = [-0.02703561 0.96505198 2.06198363] w\_new= [-0.02704409 0.96505153 2.06199255]

gradient= [-8.46368020e-04 -4.50024925e-05 8.91370512e-04] w = [-0.02704409 0.96505153 2.06199255] w\_new= [-0.02705255 0.96505108 2.06200147]

gradient= [-8.45131921e-04 -4.49437316e-05 8.90075653e-04] w = [-0.02705255 0.96505108 2.06200147] w\_new= [-0.027061 0.96505063 2.06201037]

gradient= [-8.43897633e-04 -4.48850462e-05 8.88782679e-04] w = [-0.027061 0.96505063 2.06201037] w\_new= [-0.02706944 0.96505018 2.06201926]

gradient= [-8.42665152e-04 -4.48264362e-05 8.87491588e-04] w = [-0.02706944 0.96505018 2.06201926] w\_new= [-0.02707787 0.96504974 2.06202813]

gradient= [-8.41434475e-04 -4.47679016e-05 8.86202377e-04] w = [-0.02707787 0.96504974 2.06202813] w\_new= [-0.02708628 0.96504929 2.06203699]

gradient= [-8.40205601e-04 -4.47094422e-05 8.84915043e-04] w = [-0.02708628 0.96504929 2.06203699] w\_new= [-0.02709468 0.96504884 2.06204584]

gradient= [-8.38978527e-04 -4.46510579e-05 8.83629585e-04] w = [-0.02709468 0.96504884 2.06204584] w\_new= [-0.02710307 0.96504839 2.06205468]

gradient= [-8.37753249e-04 -4.45927486e-05 8.82345998e-04] w = [-0.02710307 0.96504839 2.06205468] w\_new= [-0.02711145 0.96504795 2.0620635 ]

gradient= [-8.36529766e-04 -4.45345143e-05 8.81064280e-04] w = [-0.02711145 0.96504795 2.0620635 ] w\_new= [-0.02711982 0.9650475 2.06207231]

gradient= [-8.35308074e-04 -4.44763549e-05 8.79784428e-04] w = [-0.02711982 0.9650475 2.06207231] w\_new= [-0.02712817 0.96504706 2.06208111]

gradient= [-8.34088171e-04 -4.44182702e-05 8.78506441e-04] w = [-0.02712817 0.96504706 2.06208111] w\_new= [-0.02713651 0.96504661 2.06208989]

gradient= [-8.32870054e-04 -4.43602602e-05 8.77230314e-04] w = [-0.02713651 0.96504661 2.06208989] w\_new= [-0.02714484 0.96504617 2.06209867]

gradient= [-8.31653721e-04 -4.43023247e-05 8.75956046e-04] w = [-0.02714484 0.96504617 2.06209867] w\_new= [-0.02715315 0.96504573 2.06210743]

gradient= [-8.30439169e-04 -4.42444637e-05 8.74683633e-04] w = [-0.02715315 0.96504573 2.06210743] w\_new= [-0.02716146 0.96504529 2.06211617]

gradient= [-8.29226395e-04 -4.41866771e-05 8.73413072e-04] w = [-0.02716146 0.96504529 2.06211617] w\_new= [-0.02716975 0.96504484 2.06212491]

gradient= [-8.28015398e-04 -4.41289647e-05 8.72144362e-04] w = [-0.02716975 0.96504484 2.06212491] w\_new= [-0.02717803 0.9650444 2.06213363]

gradient= [-8.26806173e-04 -4.40713266e-05 8.70877500e-04] w = [-0.02717803 0.9650444 2.06213363] w\_new= [-0.0271863 0.96504396 2.06214234]

gradient= [-8.25598719e-04 -4.40137626e-05 8.69612482e-04] w = [-0.0271863 0.96504396 2.06214234] w\_new= [-0.02719456 0.96504352 2.06215103]

gradient= [-8.24393033e-04 -4.39562725e-05 8.68349306e-04] w = [-0.02719456 0.96504352 2.06215103] w\_new= [-0.0272028 0.96504308 2.06215972]

gradient= [-8.23189112e-04 -4.38988564e-05 8.67087969e-04] w = [-0.0272028 0.96504308 2.06215972] w\_new= [-0.02721103 0.96504264 2.06216839]

gradient= [-8.21986955e-04 -4.38415141e-05 8.65828469e-04] w = [-0.02721103 0.96504264 2.06216839] w\_new= [-0.02721925 0.9650422 2.06217705]

gradient= [-8.20786557e-04 -4.37842455e-05 8.64570802e-04] w = [-0.02721925 0.9650422 2.06217705] w\_new= [-0.02722746 0.96504177 2.06218569]

gradient= [-8.19587917e-04 -4.37270505e-05 8.63314967e-04] w = [-0.02722746 0.96504177 2.06218569] w\_new= [-0.02723565 0.96504133 2.06219433]

gradient= [-8.18391032e-04 -4.36699291e-05 8.62060961e-04] w = [-0.02723565 0.96504133 2.06219433] w\_new= [-0.02724384 0.96504089 2.06220295]

gradient= [-8.17195899e-04 -4.36128811e-05 8.60808780e-04] w = [-0.02724384 0.96504089 2.06220295] w\_new= [-0.02725201 0.96504046 2.06221155]

gradient= [-8.16002516e-04 -4.35559064e-05 8.59558423e-04] w = [-0.02725201 0.96504046 2.06221155] w\_new= [-0.02726017 0.96504002 2.06222015]

gradient= [-8.14810881e-04 -4.34990050e-05 8.58309886e-04] w = [-0.02726017 0.96504002 2.06222015] w\_new= [-0.02726832 0.96503959 2.06222873]

gradient= [-8.13620990e-04 -4.34421768e-05 8.57063167e-04] w = [-0.02726832 0.96503959 2.06222873] w\_new= [-0.02727645 0.96503915 2.0622373 ]

gradient= [-8.12432841e-04 -4.33854216e-05 8.55818263e-04] w = [-0.02727645 0.96503915 2.0622373 ] w\_new= [-0.02728458 0.96503872 2.06224586]

gradient= [-8.11246432e-04 -4.33287395e-05 8.54575172e-04] w = [-0.02728458 0.96503872 2.06224586] w\_new= [-0.02729269 0.96503828 2.06225441]

gradient= [-8.10061760e-04 -4.32721302e-05 8.53333890e-04] w = [-0.02729269 0.96503828 2.06225441] w\_new= [-0.02730079 0.96503785 2.06226294]

gradient= [-8.08878822e-04 -4.32155937e-05 8.52094416e-04] w = [-0.02730079 0.96503785 2.06226294] w\_new= [-0.02730888 0.96503742 2.06227146]

gradient= [-8.07697617e-04 -4.31591299e-05 8.50856747e-04] w = [-0.02730888 0.96503742 2.06227146] w\_new= [-0.02731696 0.96503699 2.06227997]

gradient= [-8.06518140e-04 -4.31027387e-05 8.49620879e-04] w = [-0.02731696 0.96503699 2.06227997] w\_new= [-0.02732502 0.96503656 2.06228847]

gradient= [-8.05340391e-04 -4.30464200e-05 8.48386811e-04] w = [-0.02732502 0.96503656 2.06228847] w\_new= [-0.02733308 0.96503613 2.06229695]

gradient= [-8.04164366e-04 -4.29901738e-05 8.47154539e-04] w = [-0.02733308 0.96503613 2.06229695] w\_new= [-0.02734112 0.9650357 2.06230542]

gradient= [-8.02990062e-04 -4.29339999e-05 8.45924062e-04] w = [-0.02734112 0.9650357 2.06230542] w\_new= [-0.02734915 0.96503527 2.06231388]

gradient= [-8.01817478e-04 -4.28778982e-05 8.44695376e-04] w = [-0.02734915 0.96503527 2.06231388] w\_new= [-0.02735717 0.96503484 2.06232233]

gradient= [-8.00646610e-04 -4.28218687e-05 8.43468479e-04] w = [-0.02735717 0.96503484 2.06232233] w\_new= [-0.02736517 0.96503441 2.06233076]

gradient= [-7.99477456e-04 -4.27659112e-05 8.42243368e-04] w = [-0.02736517 0.96503441 2.06233076] w\_new= [-0.02737317 0.96503398 2.06233918]

gradient= [-7.98310015e-04 -4.27100258e-05 8.41020040e-04] w = [-0.02737317 0.96503398 2.06233918] w\_new= [-0.02738115 0.96503356 2.0623476 ]

gradient= [-7.97144282e-04 -4.26542122e-05 8.39798494e-04] w = [-0.02738115 0.96503356 2.0623476 ] w\_new= [-0.02738912 0.96503313 2.06235599]

gradient= [-7.95980256e-04 -4.25984703e-05 8.38578726e-04] w = [-0.02738912 0.96503313 2.06235599] w\_new= [-0.02739708 0.9650327 2.06236438]

gradient= [-7.94817933e-04 -4.25428002e-05 8.37360734e-04] w = [-0.02739708 0.9650327 2.06236438] w\_new= [-0.02740503 0.96503228 2.06237275]

gradient= [-7.93657313e-04 -4.24872017e-05 8.36144515e-04] w = [-0.02740503 0.96503228 2.06237275] w\_new= [-0.02741297 0.96503185 2.06238111]

gradient= [-7.92498391e-04 -4.24316747e-05 8.34930066e-04] w = [-0.02741297 0.96503185 2.06238111] w\_new= [-0.02742089 0.96503143 2.06238946]

gradient= [-7.91341167e-04 -4.23762191e-05 8.33717386e-04] w = [-0.02742089 0.96503143 2.06238946] w\_new= [-0.0274288 0.965031 2.0623978]

gradient= [-7.90185636e-04 -4.23208348e-05 8.32506471e-04] w = [-0.0274288 0.965031 2.0623978] w\_new= [-0.02743671 0.96503058 2.06240613]

gradient= [-7.89031797e-04 -4.22655218e-05 8.31297318e-04] w = [-0.02743671 0.96503058 2.06240613] w\_new= [-0.0274446 0.96503016 2.06241444]

gradient= [-7.87879646e-04 -4.22102800e-05 8.30089926e-04] w = [-0.0274446 0.96503016 2.06241444] w\_new= [-0.02745248 0.96502974 2.06242274]

gradient= [-7.86729183e-04 -4.21551092e-05 8.28884292e-04] w = [-0.02745248 0.96502974 2.06242274] w\_new= [-0.02746034 0.96502931 2.06243103]

gradient= [-7.85580404e-04 -4.21000093e-05 8.27680413e-04] w = [-0.02746034 0.96502931 2.06243103] w\_new= [-0.0274682 0.96502889 2.06243931]

gradient= [-7.84433306e-04 -4.20449804e-05 8.26478286e-04] w = [-0.0274682 0.96502889 2.06243931] w\_new= [-0.02747604 0.96502847 2.06244757]

gradient= [-7.83287887e-04 -4.19900222e-05 8.25277910e-04] w = [-0.02747604 0.96502847 2.06244757] w\_new= [-0.02748388 0.96502805 2.06245582]

gradient= [-7.82144146e-04 -4.19351348e-05 8.24079280e-04] w = [-0.02748388 0.96502805 2.06245582] w\_new= [-0.0274917 0.96502763 2.06246406]

gradient= [-7.81002078e-04 -4.18803180e-05 8.22882396e-04] w = [-0.0274917 0.96502763 2.06246406] w\_new= [-0.02749951 0.96502722 2.06247229]

gradient= [-7.79861682e-04 -4.18255717e-05 8.21687254e-04] w = [-0.02749951 0.96502722 2.06247229] w\_new= [-0.02750731 0.9650268 2.06248051]

gradient= [-7.78722956e-04 -4.17708958e-05 8.20493852e-04] w = [-0.02750731 0.9650268 2.06248051] w\_new= [-0.02751509 0.96502638 2.06248871]

gradient= [-7.77585896e-04 -4.17162903e-05 8.19302186e-04] w = [-0.02751509 0.96502638 2.06248871] w\_new= [-0.02752287 0.96502596 2.06249691]

gradient= [-7.76450501e-04 -4.16617550e-05 8.18112256e-04] w = [-0.02752287 0.96502596 2.06249691] w\_new= [-0.02753063 0.96502555 2.06250509]

gradient= [-7.75316768e-04 -4.16072899e-05 8.16924058e-04] w = [-0.02753063 0.96502555 2.06250509] w\_new= [-0.02753839 0.96502513 2.06251326]

gradient= [-7.74184694e-04 -4.15528949e-05 8.15737589e-04] w = [-0.02753839 0.96502513 2.06251326] w\_new= [-0.02754613 0.96502471 2.06252141]

gradient= [-7.73054278e-04 -4.14985698e-05 8.14552847e-04] w = [-0.02754613 0.96502471 2.06252141] w\_new= [-0.02755386 0.9650243 2.06252956]

gradient= [-7.71925516e-04 -4.14443147e-05 8.13369830e-04] w = [-0.02755386 0.9650243 2.06252956] w\_new= [-0.02756158 0.96502388 2.06253769]

gradient= [-7.70798406e-04 -4.13901294e-05 8.12188535e-04] w = [-0.02756158 0.96502388 2.06253769] w\_new= [-0.02756929 0.96502347 2.06254582]

gradient= [-7.69672946e-04 -4.13360138e-05 8.11008960e-04] w = [-0.02756929 0.96502347 2.06254582] w\_new= [-0.02757698 0.96502306 2.06255393]

gradient= [-7.68549133e-04 -4.12819678e-05 8.09831101e-04] w = [-0.02757698 0.96502306 2.06255393] w\_new= [-0.02758467 0.96502264 2.06256202]

gradient= [-7.67426966e-04 -4.12279914e-05 8.08654957e-04] w = [-0.02758467 0.96502264 2.06256202] w\_new= [-0.02759234 0.96502223 2.06257011]

gradient= [-7.66306441e-04 -4.11740845e-05 8.07480525e-04] w = [-0.02759234 0.96502223 2.06257011] w\_new= [-0.02760001 0.96502182 2.06257819]

gradient= [-7.65187556e-04 -4.11202469e-05 8.06307803e-04] w = [-0.02760001 0.96502182 2.06257819] w\_new= [-0.02760766 0.96502141 2.06258625]

gradient= [-7.64070308e-04 -4.10664786e-05 8.05136787e-04] w = [-0.02760766 0.96502141 2.06258625] w\_new= [-0.0276153 0.965021 2.0625943]

gradient= [-7.62954696e-04 -4.10127795e-05 8.03967476e-04] w = [-0.0276153 0.965021 2.0625943] w\_new= [-0.02762293 0.96502059 2.06260234]

gradient= [-7.61840717e-04 -4.09591495e-05 8.02799867e-04] w = [-0.02762293 0.96502059 2.06260234] w\_new= [-0.02763055 0.96502018 2.06261037]

gradient= [-7.60728369e-04 -4.09055885e-05 8.01633957e-04] w = [-0.02763055 0.96502018 2.06261037] w\_new= [-0.02763815 0.96501977 2.06261838]

gradient= [-7.59617648e-04 -4.08520965e-05 8.00469744e-04] w = [-0.02763815 0.96501977 2.06261838] w\_new= [-0.02764575 0.96501936 2.06262639]

gradient= [-7.58508553e-04 -4.07986733e-05 7.99307226e-04] w = [-0.02764575 0.96501936 2.06262639] w\_new= [-0.02765334 0.96501895 2.06263438]

gradient= [-7.57401081e-04 -4.07453189e-05 7.98146400e-04] w = [-0.02765334 0.96501895 2.06263438] w\_new= [-0.02766091 0.96501855 2.06264236]

gradient= [-7.56295231e-04 -4.06920331e-05 7.96987264e-04] w = [-0.02766091 0.96501855 2.06264236] w\_new= [-0.02766847 0.96501814 2.06265033]

gradient= [-7.55190999e-04 -4.06388159e-05 7.95829815e-04] w = [-0.02766847 0.96501814 2.06265033] w\_new= [-0.02767602 0.96501773 2.06265829]

gradient= [-7.54088383e-04 -4.05856672e-05 7.94674050e-04] w = [-0.02767602 0.96501773 2.06265829] w\_new= [-0.02768357 0.96501733 2.06266624]

gradient= [-7.52987380e-04 -4.05325870e-05 7.93519967e-04] w = [-0.02768357 0.96501733 2.06266624] w\_new= [-0.02769109 0.96501692 2.06267417]

gradient= [-7.51887989e-04 -4.04795750e-05 7.92367565e-04] w = [-0.02769109 0.96501692 2.06267417] w\_new= [-0.02769861 0.96501652 2.0626821 ]

gradient= [-7.50790208e-04 -4.04266313e-05 7.91216839e-04] w = [-0.02769861 0.96501652 2.0626821 ] w\_new= [-0.02770612 0.96501611 2.06269001]

gradient= [-7.49694032e-04 -4.03737558e-05 7.90067788e-04] w = [-0.02770612 0.96501611 2.06269001] w\_new= [-0.02771362 0.96501571 2.06269791]

gradient= [-7.48599462e-04 -4.03209483e-05 7.88920410e-04] w = [-0.02771362 0.96501571 2.06269791] w\_new= [-0.0277211 0.96501531 2.0627058 ]

gradient= [-7.47506493e-04 -4.02682088e-05 7.87774701e-04] w = [-0.0277211 0.96501531 2.0627058 ] w\_new= [-0.02772858 0.9650149 2.06271368]

gradient= [-7.46415123e-04 -4.02155372e-05 7.86630661e-04] w = [-0.02772858 0.9650149 2.06271368] w\_new= [-0.02773604 0.9650145 2.06272154]

gradient= [-7.45325351e-04 -4.01629334e-05 7.85488285e-04] w = [-0.02773604 0.9650145 2.06272154] w\_new= [-0.0277435 0.9650141 2.0627294]

gradient= [-7.44237174e-04 -4.01103973e-05 7.84347571e-04] w = [-0.0277435 0.9650141 2.0627294] w\_new= [-0.02775094 0.9650137 2.06273724]

gradient= [-7.43150589e-04 -4.00579289e-05 7.83208518e-04] w = [-0.02775094 0.9650137 2.06273724] w\_new= [-0.02775837 0.9650133 2.06274507]

gradient= [-7.42065595e-04 -4.00055280e-05 7.82071123e-04] w = [-0.02775837 0.9650133 2.06274507] w\_new= [-0.02776579 0.9650129 2.06275289]

gradient= [-7.40982188e-04 -3.99531945e-05 7.80935383e-04] w = [-0.02776579 0.9650129 2.06275289] w\_new= [-0.0277732 0.9650125 2.0627607]

gradient= [-7.39900367e-04 -3.99009285e-05 7.79801296e-04] w = [-0.0277732 0.9650125 2.0627607] w\_new= [-0.0277806 0.9650121 2.0627685]

gradient= [-7.38820129e-04 -3.98487297e-05 7.78668859e-04] w = [-0.0277806 0.9650121 2.0627685] w\_new= [-0.02778799 0.9650117 2.06277629]

gradient= [-7.37741472e-04 -3.97965982e-05 7.77538070e-04] w = [-0.02778799 0.9650117 2.06277629] w\_new= [-0.02779537 0.9650113 2.06278406]

gradient= [-7.36664394e-04 -3.97445337e-05 7.76408928e-04] w = [-0.02779537 0.9650113 2.06278406] w\_new= [-0.02780273 0.9650109 2.06279183]

gradient= [-7.35588892e-04 -3.96925363e-05 7.75281428e-04] w = [-0.02780273 0.9650109 2.06279183] w\_new= [-0.02781009 0.96501051 2.06279958]

gradient= [-7.34514963e-04 -3.96406059e-05 7.74155569e-04] w = [-0.02781009 0.96501051 2.06279958] w\_new= [-0.02781743 0.96501011 2.06280732]

gradient= [-7.33442607e-04 -3.95887423e-05 7.73031349e-04] w = [-0.02781743 0.96501011 2.06280732] w\_new= [-0.02782477 0.96500972 2.06281505]

gradient= [-7.32371819e-04 -3.95369455e-05 7.71908765e-04] w = [-0.02782477 0.96500972 2.06281505] w\_new= [-0.02783209 0.96500932 2.06282277]

gradient= [-7.31302599e-04 -3.94852155e-05 7.70787814e-04] w = [-0.02783209 0.96500932 2.06282277] w\_new= [-0.0278394 0.96500893 2.06283048]

gradient= [-7.30234943e-04 -3.94335520e-05 7.69668495e-04] w = [-0.0278394 0.96500893 2.06283048] w\_new= [-0.02784671 0.96500853 2.06283818]

gradient= [-7.29168849e-04 -3.93819550e-05 7.68550804e-04] w = [-0.02784671 0.96500853 2.06283818] w\_new= [-0.027854 0.96500814 2.06284586]

gradient= [-7.28104316e-04 -3.93304245e-05 7.67434741e-04] w = [-0.027854 0.96500814 2.06284586] w\_new= [-0.02786128 0.96500774 2.06285354]

gradient= [-7.27041341e-04 -3.92789604e-05 7.66320301e-04] w = [-0.02786128 0.96500774 2.06285354] w\_new= [-0.02786855 0.96500735 2.0628612 ]

gradient= [-7.25979920e-04 -3.92275625e-05 7.65207483e-04] w = [-0.02786855 0.96500735 2.0628612 ] w\_new= [-0.02787581 0.96500696 2.06286885]

gradient= [-7.24920054e-04 -3.91762309e-05 7.64096285e-04] w = [-0.02787581 0.96500696 2.06286885] w\_new= [-0.02788306 0.96500657 2.06287649]

gradient= [-7.23861738e-04 -3.91249653e-05 7.62986703e-04] w = [-0.02788306 0.96500657 2.06287649] w\_new= [-0.0278903 0.96500618 2.06288412]

gradient= [-7.22804970e-04 -3.90737658e-05 7.61878736e-04] w = [-0.0278903 0.96500618 2.06288412] w\_new= [-0.02789753 0.96500579 2.06289174]

gradient= [-7.21749750e-04 -3.90226322e-05 7.60772382e-04] w = [-0.02789753 0.96500579 2.06289174] w\_new= [-0.02790474 0.96500539 2.06289935]

gradient= [-7.20696073e-04 -3.89715645e-05 7.59667637e-04] w = [-0.02790474 0.96500539 2.06289935] w\_new= [-0.02791195 0.96500501 2.06290695]

gradient= [-7.19643938e-04 -3.89205625e-05 7.58564500e-04] w = [-0.02791195 0.96500501 2.06290695] w\_new= [-0.02791915 0.96500462 2.06291453]

gradient= [-7.18593342e-04 -3.88696262e-05 7.57462969e-04] w = [-0.02791915 0.96500462 2.06291453] w\_new= [-0.02792633 0.96500423 2.06292211]

gradient= [-7.17544284e-04 -3.88187556e-05 7.56363040e-04] w = [-0.02792633 0.96500423 2.06292211] w\_new= [-0.02793351 0.96500384 2.06292967]

gradient= [-7.16496761e-04 -3.87679505e-05 7.55264712e-04] w = [-0.02793351 0.96500384 2.06292967] w\_new= [-0.02794067 0.96500345 2.06293722]

gradient= [-7.15450771e-04 -3.87172108e-05 7.54167982e-04] w = [-0.02794067 0.96500345 2.06293722] w\_new= [-0.02794783 0.96500306 2.06294476]

gradient= [-7.14406311e-04 -3.86665364e-05 7.53072848e-04] w = [-0.02794783 0.96500306 2.06294476] w\_new= [-0.02795497 0.96500268 2.06295229]

gradient= [-7.13363380e-04 -3.86159274e-05 7.51979307e-04] w = [-0.02795497 0.96500268 2.06295229] w\_new= [-0.02796211 0.96500229 2.06295981]

gradient= [-7.12321974e-04 -3.85653835e-05 7.50887358e-04] w = [-0.02796211 0.96500229 2.06295981] w\_new= [-0.02796923 0.96500191 2.06296732]

gradient= [-7.11282093e-04 -3.85149048e-05 7.49796997e-04] w = [-0.02796923 0.96500191 2.06296732] w\_new= [-0.02797634 0.96500152 2.06297482]

gradient= [-7.10243732e-04 -3.84644911e-05 7.48708224e-04] w = [-0.02797634 0.96500152 2.06297482] w\_new= [-0.02798344 0.96500114 2.06298231]

gradient= [-7.09206892e-04 -3.84141423e-05 7.47621034e-04] w = [-0.02798344 0.96500114 2.06298231] w\_new= [-0.02799054 0.96500075 2.06298978]

gradient= [-7.08171568e-04 -3.83638584e-05 7.46535426e-04] w = [-0.02799054 0.96500075 2.06298978] w\_new= [-0.02799762 0.96500037 2.06299725]

gradient= [-7.07137759e-04 -3.83136393e-05 7.45451398e-04] w = [-0.02799762 0.96500037 2.06299725] w\_new= [-0.02800469 0.96499999 2.0630047 ]

gradient= [-7.06105463e-04 -3.82634848e-05 7.44368948e-04] w = [-0.02800469 0.96499999 2.0630047 ] w\_new= [-0.02801175 0.9649996 2.06301215]

gradient= [-7.05074677e-04 -3.82133950e-05 7.43288072e-04] w = [-0.02801175 0.9649996 2.06301215] w\_new= [-0.0280188 0.96499922 2.06301958]

gradient= [-7.04045400e-04 -3.81633698e-05 7.42208769e-04] w = [-0.0280188 0.96499922 2.06301958] w\_new= [-0.02802584 0.96499884 2.063027 ]

gradient= [-7.03017628e-04 -3.81134090e-05 7.41131037e-04] w = [-0.02802584 0.96499884 2.063027 ] w\_new= [-0.02803287 0.96499846 2.06303441]

gradient= [-7.01991360e-04 -3.80635125e-05 7.40054873e-04] w = [-0.02803287 0.96499846 2.06303441] w\_new= [-0.02803989 0.96499808 2.06304181]

gradient= [-7.00966594e-04 -3.80136803e-05 7.38980274e-04] w = [-0.02803989 0.96499808 2.06304181] w\_new= [-0.0280469 0.9649977 2.0630492]

gradient= [-6.99943327e-04 -3.79639124e-05 7.37907239e-04] w = [-0.0280469 0.9649977 2.0630492] w\_new= [-0.0280539 0.96499732 2.06305658]

gradient= [-6.98921557e-04 -3.79142086e-05 7.36835766e-04] w = [-0.0280539 0.96499732 2.06305658] w\_new= [-0.02806089 0.96499694 2.06306395]

gradient= [-6.97901282e-04 -3.78645688e-05 7.35765851e-04] w = [-0.02806089 0.96499694 2.06306395] w\_new= [-0.02806787 0.96499656 2.06307131]

gradient= [-6.96882500e-04 -3.78149930e-05 7.34697493e-04] w = [-0.02806787 0.96499656 2.06307131] w\_new= [-0.02807484 0.96499618 2.06307866]

gradient= [-6.95865208e-04 -3.77654811e-05 7.33630689e-04] w = [-0.02807484 0.96499618 2.06307866] w\_new= [-0.0280818 0.9649958 2.06308599]

gradient= [-6.94849405e-04 -3.77160330e-05 7.32565438e-04] w = [-0.0280818 0.9649958 2.06308599] w\_new= [-0.02808874 0.96499543 2.06309332]

gradient= [-6.93835088e-04 -3.76666486e-05 7.31501737e-04] w = [-0.02808874 0.96499543 2.06309332] w\_new= [-0.02809568 0.96499505 2.06310063]

gradient= [-6.92822255e-04 -3.76173278e-05 7.30439583e-04] w = [-0.02809568 0.96499505 2.06310063] w\_new= [-0.02810261 0.96499467 2.06310794]

gradient= [-6.91810904e-04 -3.75680706e-05 7.29378974e-04] w = [-0.02810261 0.96499467 2.06310794] w\_new= [-0.02810953 0.9649943 2.06311523]

gradient= [-6.90801032e-04 -3.75188769e-05 7.28319909e-04] w = [-0.02810953 0.9649943 2.06311523] w\_new= [-0.02811644 0.96499392 2.06312251]

gradient= [-6.89792638e-04 -3.74697466e-05 7.27262385e-04] w = [-0.02811644 0.96499392 2.06312251] w\_new= [-0.02812334 0.96499355 2.06312979]

gradient= [-6.88785719e-04 -3.74206796e-05 7.26206399e-04] w = [-0.02812334 0.96499355 2.06312979] w\_new= [-0.02813022 0.96499317 2.06313705]

gradient= [-6.87780273e-04 -3.73716758e-05 7.25151949e-04] w = [-0.02813022 0.96499317 2.06313705] w\_new= [-0.0281371 0.9649928 2.0631443]

gradient= [-6.86776298e-04 -3.73227353e-05 7.24099034e-04] w = [-0.0281371 0.9649928 2.0631443] w\_new= [-0.02814397 0.96499243 2.06315154]

gradient= [-6.85773792e-04 -3.72738577e-05 7.23047650e-04] w = [-0.02814397 0.96499243 2.06315154] w\_new= [-0.02815083 0.96499205 2.06315877]

gradient= [-6.84772753e-04 -3.72250432e-05 7.21997796e-04] w = [-0.02815083 0.96499205 2.06315877] w\_new= [-0.02815767 0.96499168 2.06316599]

gradient= [-6.83773178e-04 -3.71762916e-05 7.20949470e-04] w = [-0.02815767 0.96499168 2.06316599] w\_new= [-0.02816451 0.96499131 2.0631732 ]

gradient= [-6.82775066e-04 -3.71276029e-05 7.19902668e-04] w = [-0.02816451 0.96499131 2.0631732 ] w\_new= [-0.02817134 0.96499094 2.0631804 ]

gradient= [-6.81778413e-04 -3.70789769e-05 7.18857390e-04] w = [-0.02817134 0.96499094 2.0631804 ] w\_new= [-0.02817816 0.96499057 2.06318759]

gradient= [-6.80783219e-04 -3.70304135e-05 7.17813632e-04] w = [-0.02817816 0.96499057 2.06318759] w\_new= [-0.02818497 0.9649902 2.06319477]

gradient= [-6.79789480e-04 -3.69819128e-05 7.16771393e-04] w = [-0.02818497 0.9649902 2.06319477] w\_new= [-0.02819176 0.96498983 2.06320194]

gradient= [-6.78797196e-04 -3.69334746e-05 7.15730670e-04] w = [-0.02819176 0.96498983 2.06320194] w\_new= [-0.02819855 0.96498946 2.06320909]

gradient= [-6.77806363e-04 -3.68850989e-05 7.14691462e-04] w = [-0.02819855 0.96498946 2.06320909] w\_new= [-0.02820533 0.96498909 2.06321624]

gradient= [-6.76816979e-04 -3.68367855e-05 7.13653765e-04] w = [-0.02820533 0.96498909 2.06321624] w\_new= [-0.0282121 0.96498872 2.06322338]

gradient= [-6.75829043e-04 -3.67885344e-05 7.12617577e-04] w = [-0.0282121 0.96498872 2.06322338] w\_new= [-0.02821886 0.96498835 2.0632305 ]

gradient= [-6.74842552e-04 -3.67403455e-05 7.11582897e-04] w = [-0.02821886 0.96498835 2.0632305 ] w\_new= [-0.0282256 0.96498799 2.06323762]

gradient= [-6.73857504e-04 -3.66922187e-05 7.10549723e-04] w = [-0.0282256 0.96498799 2.06323762] w\_new= [-0.02823234 0.96498762 2.06324472]

gradient= [-6.72873897e-04 -3.66441540e-05 7.09518051e-04] w = [-0.02823234 0.96498762 2.06324472] w\_new= [-0.02823907 0.96498725 2.06325182]

gradient= [-6.71891729e-04 -3.65961512e-05 7.08487880e-04] w = [-0.02823907 0.96498725 2.06325182] w\_new= [-0.02824579 0.96498689 2.0632589 ]

gradient= [-6.70910998e-04 -3.65482103e-05 7.07459208e-04] w = [-0.02824579 0.96498689 2.0632589 ] w\_new= [-0.0282525 0.96498652 2.06326598]

gradient= [-6.69931701e-04 -3.65003313e-05 7.06432033e-04] w = [-0.0282525 0.96498652 2.06326598] w\_new= [-0.0282592 0.96498616 2.06327304]

gradient= [-6.68953837e-04 -3.64525140e-05 7.05406351e-04] w = [-0.0282592 0.96498616 2.06327304] w\_new= [-0.02826589 0.96498579 2.0632801 ]

gradient= [-6.67977404e-04 -3.64047583e-05 7.04382162e-04] w = [-0.02826589 0.96498579 2.0632801 ] w\_new= [-0.02827257 0.96498543 2.06328714]

gradient= [-6.67002398e-04 -3.63570642e-05 7.03359463e-04] w = [-0.02827257 0.96498543 2.06328714] w\_new= [-0.02827924 0.96498506 2.06329417]

gradient= [-6.66028819e-04 -3.63094316e-05 7.02338251e-04] w = [-0.02827924 0.96498506 2.06329417] w\_new= [-0.0282859 0.9649847 2.0633012]

gradient= [-6.65056664e-04 -3.62618604e-05 7.01318525e-04] w = [-0.0282859 0.9649847 2.0633012] w\_new= [-0.02829255 0.96498434 2.06330821]

gradient= [-6.64085932e-04 -3.62143506e-05 7.00300282e-04] w = [-0.02829255 0.96498434 2.06330821] w\_new= [-0.02829919 0.96498398 2.06331521]

gradient= [-6.63116619e-04 -3.61669020e-05 6.99283521e-04] w = [-0.02829919 0.96498398 2.06331521] w\_new= [-0.02830582 0.96498361 2.06332221]

gradient= [-6.62148724e-04 -3.61195146e-05 6.98268238e-04] w = [-0.02830582 0.96498361 2.06332221] w\_new= [-0.02831244 0.96498325 2.06332919]

gradient= [-6.61182245e-04 -3.60721884e-05 6.97254433e-04] w = [-0.02831244 0.96498325 2.06332919] w\_new= [-0.02831905 0.96498289 2.06333616]

gradient= [-6.60217179e-04 -3.60249231e-05 6.96242102e-04] w = [-0.02831905 0.96498289 2.06333616] w\_new= [-0.02832566 0.96498253 2.06334312]

gradient= [-6.59253525e-04 -3.59777188e-05 6.95231244e-04] w = [-0.02832566 0.96498253 2.06334312] w\_new= [-0.02833225 0.96498217 2.06335008]

gradient= [-6.58291281e-04 -3.59305754e-05 6.94221856e-04] w = [-0.02833225 0.96498217 2.06335008] w\_new= [-0.02833883 0.96498181 2.06335702]

gradient= [-6.57330444e-04 -3.58834928e-05 6.93213937e-04] w = [-0.02833883 0.96498181 2.06335702] w\_new= [-0.02834541 0.96498145 2.06336395]

gradient= [-6.56371013e-04 -3.58364709e-05 6.92207484e-04] w = [-0.02834541 0.96498145 2.06336395] w\_new= [-0.02835197 0.9649811 2.06337087]

gradient= [-6.55412985e-04 -3.57895097e-05 6.91202495e-04] w = [-0.02835197 0.9649811 2.06337087] w\_new= [-0.02835852 0.96498074 2.06337779]

gradient= [-6.54456358e-04 -3.57426090e-05 6.90198967e-04] w = [-0.02835852 0.96498074 2.06337779] w\_new= [-0.02836507 0.96498038 2.06338469]

gradient= [-6.53501131e-04 -3.56957689e-05 6.89196900e-04] w = [-0.02836507 0.96498038 2.06338469] w\_new= [-0.0283716 0.96498002 2.06339158]

gradient= [-6.52547300e-04 -3.56489891e-05 6.88196290e-04] w = [-0.0283716 0.96498002 2.06339158] w\_new= [-0.02837813 0.96497967 2.06339846]

gradient= [-6.51594865e-04 -3.56022697e-05 6.87197135e-04] w = [-0.02837813 0.96497967 2.06339846] w\_new= [-0.02838464 0.96497931 2.06340533]

gradient= [-6.50643823e-04 -3.55556105e-05 6.86199434e-04] w = [-0.02838464 0.96497931 2.06340533] w\_new= [-0.02839115 0.96497896 2.06341219]

gradient= [-6.49694172e-04 -3.55090115e-05 6.85203184e-04] w = [-0.02839115 0.96497896 2.06341219] w\_new= [-0.02839765 0.9649786 2.06341905]

gradient= [-6.48745910e-04 -3.54624727e-05 6.84208383e-04] w = [-0.02839765 0.9649786 2.06341905] w\_new= [-0.02840414 0.96497825 2.06342589]

gradient= [-6.47799035e-04 -3.54159938e-05 6.83215029e-04] w = [-0.02840414 0.96497825 2.06342589] w\_new= [-0.02841061 0.96497789 2.06343272]

gradient= [-6.46853545e-04 -3.53695750e-05 6.82223120e-04] w = [-0.02841061 0.96497789 2.06343272] w\_new= [-0.02841708 0.96497754 2.06343954]

gradient= [-6.45909438e-04 -3.53232160e-05 6.81232654e-04] w = [-0.02841708 0.96497754 2.06343954] w\_new= [-0.02842354 0.96497718 2.06344636]

gradient= [-6.44966712e-04 -3.52769168e-05 6.80243629e-04] w = [-0.02842354 0.96497718 2.06344636] w\_new= [-0.02842999 0.96497683 2.06345316]

gradient= [-6.44025364e-04 -3.52306773e-05 6.79256042e-04] w = [-0.02842999 0.96497683 2.06345316] w\_new= [-0.02843643 0.96497648 2.06345995]

gradient= [-6.43085394e-04 -3.51844975e-05 6.78269891e-04] w = [-0.02843643 0.96497648 2.06345995] w\_new= [-0.02844286 0.96497613 2.06346673]

gradient= [-6.42146798e-04 -3.51383773e-05 6.77285175e-04] w = [-0.02844286 0.96497613 2.06346673] w\_new= [-0.02844928 0.96497578 2.06347351]

gradient= [-6.41209575e-04 -3.50923166e-05 6.76301891e-04] w = [-0.02844928 0.96497578 2.06347351] w\_new= [-0.0284557 0.96497543 2.06348027]

gradient= [-6.40273722e-04 -3.50463153e-05 6.75320038e-04] w = [-0.0284557 0.96497543 2.06348027] w\_new= [-0.0284621 0.96497508 2.06348702]

gradient= [-6.39339239e-04 -3.50003733e-05 6.74339612e-04] w = [-0.0284621 0.96497508 2.06348702] w\_new= [-0.02846849 0.96497473 2.06349377]

gradient= [-6.38406122e-04 -3.49544907e-05 6.73360613e-04] w = [-0.02846849 0.96497473 2.06349377] w\_new= [-0.02847488 0.96497438 2.0635005 ]

gradient= [-6.37474370e-04 -3.49086672e-05 6.72383037e-04] w = [-0.02847488 0.96497438 2.0635005 ] w\_new= [-0.02848125 0.96497403 2.06350722]

gradient= [-6.36543980e-04 -3.48629028e-05 6.71406883e-04] w = [-0.02848125 0.96497403 2.06350722] w\_new= [-0.02848762 0.96497368 2.06351394]

gradient= [-6.35614952e-04 -3.48171975e-05 6.70432149e-04] w = [-0.02848762 0.96497368 2.06351394] w\_new= [-0.02849397 0.96497333 2.06352064]

gradient= [-6.34687282e-04 -3.47715512e-05 6.69458833e-04] w = [-0.02849397 0.96497333 2.06352064] w\_new= [-0.02850032 0.96497298 2.06352734]

gradient= [-6.33760968e-04 -3.47259638e-05 6.68486932e-04] w = [-0.02850032 0.96497298 2.06352734] w\_new= [-0.02850666 0.96497263 2.06353402]

gradient= [-6.32836010e-04 -3.46804352e-05 6.67516445e-04] w = [-0.02850666 0.96497263 2.06353402] w\_new= [-0.02851298 0.96497229 2.0635407 ]

gradient= [-6.31912404e-04 -3.46349654e-05 6.66547370e-04] w = [-0.02851298 0.96497229 2.0635407 ] w\_new= [-0.0285193 0.96497194 2.06354736]

gradient= [-6.30990149e-04 -3.45895542e-05 6.65579703e-04] w = [-0.0285193 0.96497194 2.06354736] w\_new= [-0.02852561 0.9649716 2.06355402]

gradient= [-6.30069243e-04 -3.45442017e-05 6.64613445e-04] w = [-0.02852561 0.9649716 2.06355402] w\_new= [-0.02853191 0.96497125 2.06356066]

gradient= [-6.29149683e-04 -3.44989076e-05 6.63648591e-04] w = [-0.02853191 0.96497125 2.06356066] w\_new= [-0.02853821 0.96497091 2.0635673 ]

gradient= [-6.28231469e-04 -3.44536721e-05 6.62685141e-04] w = [-0.02853821 0.96497091 2.0635673 ] w\_new= [-0.02854449 0.96497056 2.06357393]

gradient= [-6.27314597e-04 -3.44084949e-05 6.61723092e-04] w = [-0.02854449 0.96497056 2.06357393] w\_new= [-0.02855076 0.96497022 2.06358054]

gradient= [-6.26399066e-04 -3.43633760e-05 6.60762442e-04] w = [-0.02855076 0.96497022 2.06358054] w\_new= [-0.02855703 0.96496987 2.06358715]

gradient= [-6.25484874e-04 -3.43183153e-05 6.59803189e-04] w = [-0.02855703 0.96496987 2.06358715] w\_new= [-0.02856328 0.96496953 2.06359375]

gradient= [-6.24572019e-04 -3.42733128e-05 6.58845332e-04] w = [-0.02856328 0.96496953 2.06359375] w\_new= [-0.02856953 0.96496919 2.06360034]

gradient= [-6.23660499e-04 -3.42283684e-05 6.57888867e-04] w = [-0.02856953 0.96496919 2.06360034] w\_new= [-0.02857576 0.96496884 2.06360692]

gradient= [-6.22750312e-04 -3.41834820e-05 6.56933794e-04] w = [-0.02857576 0.96496884 2.06360692] w\_new= [-0.02858199 0.9649685 2.06361349]

gradient= [-6.21841456e-04 -3.41386535e-05 6.55980109e-04] w = [-0.02858199 0.9649685 2.06361349] w\_new= [-0.02858821 0.96496816 2.06362005]

gradient= [-6.20933929e-04 -3.40938829e-05 6.55027812e-04] w = [-0.02858821 0.96496816 2.06362005] w\_new= [-0.02859442 0.96496782 2.0636266 ]

gradient= [-6.20027729e-04 -3.40491701e-05 6.54076899e-04] w = [-0.02859442 0.96496782 2.0636266 ] w\_new= [-0.02860062 0.96496748 2.06363314]

gradient= [-6.19122855e-04 -3.40045150e-05 6.53127370e-04] w = [-0.02860062 0.96496748 2.06363314] w\_new= [-0.02860681 0.96496714 2.06363967]

gradient= [-6.18219303e-04 -3.39599175e-05 6.52179221e-04] w = [-0.02860681 0.96496714 2.06363967] w\_new= [-0.02861299 0.9649668 2.06364619]

gradient= [-6.17317073e-04 -3.39153776e-05 6.51232451e-04] w = [-0.02861299 0.9649668 2.06364619] w\_new= [-0.02861916 0.96496646 2.0636527 ]

gradient= [-6.16416163e-04 -3.38708952e-05 6.50287058e-04] w = [-0.02861916 0.96496646 2.0636527 ] w\_new= [-0.02862533 0.96496612 2.06365921]

gradient= [-6.15516570e-04 -3.38264703e-05 6.49343040e-04] w = [-0.02862533 0.96496612 2.06365921] w\_new= [-0.02863148 0.96496578 2.0636657 ]

gradient= [-6.14618292e-04 -3.37821027e-05 6.48400395e-04] w = [-0.02863148 0.96496578 2.0636657 ] w\_new= [-0.02863763 0.96496545 2.06367218]

gradient= [-6.13721328e-04 -3.37377923e-05 6.47459120e-04] w = [-0.02863763 0.96496545 2.06367218] w\_new= [-0.02864377 0.96496511 2.06367866]

gradient= [-6.12825676e-04 -3.36935392e-05 6.46519215e-04] w = [-0.02864377 0.96496511 2.06367866] w\_new= [-0.0286499 0.96496477 2.06368512]

gradient= [-6.11931333e-04 -3.36493432e-05 6.45580676e-04] w = [-0.0286499 0.96496477 2.06368512] w\_new= [-0.02865601 0.96496444 2.06369158]

gradient= [-6.11038298e-04 -3.36052043e-05 6.44643502e-04] w = [-0.02865601 0.96496444 2.06369158] w\_new= [-0.02866213 0.9649641 2.06369803]

gradient= [-6.10146569e-04 -3.35611223e-05 6.43707691e-04] w = [-0.02866213 0.9649641 2.06369803] w\_new= [-0.02866823 0.96496376 2.06370446]

gradient= [-6.09256144e-04 -3.35170973e-05 6.42773241e-04] w = [-0.02866823 0.96496376 2.06370446] w\_new= [-0.02867432 0.96496343 2.06371089]

gradient= [-6.08367021e-04 -3.34731291e-05 6.41840150e-04] w = [-0.02867432 0.96496343 2.06371089] w\_new= [-0.0286804 0.96496309 2.06371731]

gradient= [-6.07479198e-04 -3.34292177e-05 6.40908416e-04] w = [-0.0286804 0.96496309 2.06371731] w\_new= [-0.02868648 0.96496276 2.06372372]

gradient= [-6.06592674e-04 -3.33853629e-05 6.39978037e-04] w = [-0.02868648 0.96496276 2.06372372] w\_new= [-0.02869254 0.96496243 2.06373012]

gradient= [-6.05707445e-04 -3.33415648e-05 6.39049010e-04] w = [-0.02869254 0.96496243 2.06373012] w\_new= [-0.0286986 0.96496209 2.06373651]

gradient= [-6.04823511e-04 -3.32978233e-05 6.38121335e-04] w = [-0.0286986 0.96496209 2.06373651] w\_new= [-0.02870465 0.96496176 2.06374289]

gradient= [-6.03940870e-04 -3.32541382e-05 6.37195008e-04] w = [-0.02870465 0.96496176 2.06374289] w\_new= [-0.02871069 0.96496143 2.06374926]

gradient= [-6.03059519e-04 -3.32105096e-05 6.36270029e-04] w = [-0.02871069 0.96496143 2.06374926] w\_new= [-0.02871672 0.9649611 2.06375562]

gradient= [-6.02179457e-04 -3.31669373e-05 6.35346395e-04] w = [-0.02871672 0.9649611 2.06375562] w\_new= [-0.02872274 0.96496076 2.06376198]

gradient= [-6.01300682e-04 -3.31234213e-05 6.34424104e-04] w = [-0.02872274 0.96496076 2.06376198] w\_new= [-0.02872875 0.96496043 2.06376832]

gradient= [-6.00423192e-04 -3.30799614e-05 6.33503154e-04] w = [-0.02872875 0.96496043 2.06376832] w\_new= [-0.02873476 0.9649601 2.06377466]

gradient= [-5.99546985e-04 -3.30365577e-05 6.32583543e-04] w = [-0.02873476 0.9649601 2.06377466] w\_new= [-0.02874075 0.96495977 2.06378098]

gradient= [-5.98672059e-04 -3.29932101e-05 6.31665269e-04] w = [-0.02874075 0.96495977 2.06378098] w\_new= [-0.02874674 0.96495944 2.0637873 ]

gradient= [-5.97798412e-04 -3.29499184e-05 6.30748331e-04] w = [-0.02874674 0.96495944 2.0637873 ] w\_new= [-0.02875272 0.96495911 2.06379361]

gradient= [-5.96926043e-04 -3.29066826e-05 6.29832726e-04] w = [-0.02875272 0.96495911 2.06379361] w\_new= [-0.02875869 0.96495878 2.0637999 ]

gradient= [-5.96054950e-04 -3.28635027e-05 6.28918452e-04] w = [-0.02875869 0.96495878 2.0637999 ] w\_new= [-0.02876465 0.96495845 2.06380619]

gradient= [-5.95185130e-04 -3.28203785e-05 6.28005508e-04] w = [-0.02876465 0.96495845 2.06380619] w\_new= [-0.0287706 0.96495813 2.06381247]

gradient= [-5.94316581e-04 -3.27773101e-05 6.27093892e-04] w = [-0.0287706 0.96495813 2.06381247] w\_new= [-0.02877654 0.9649578 2.06381874]

gradient= [-5.93449303e-04 -3.27342973e-05 6.26183601e-04] w = [-0.02877654 0.9649578 2.06381874] w\_new= [-0.02878248 0.96495747 2.06382501]

gradient= [-5.92583293e-04 -3.26913400e-05 6.25274633e-04] w = [-0.02878248 0.96495747 2.06382501] w\_new= [-0.0287884 0.96495714 2.06383126]

gradient= [-5.91718549e-04 -3.26484382e-05 6.24366987e-04] w = [-0.0287884 0.96495714 2.06383126] w\_new= [-0.02879432 0.96495682 2.0638375 ]

gradient= [-5.90855070e-04 -3.26055919e-05 6.23460661e-04] w = [-0.02879432 0.96495682 2.0638375 ] w\_new= [-0.02880023 0.96495649 2.06384374]

gradient= [-5.89992853e-04 -3.25628009e-05 6.22555653e-04] w = [-0.02880023 0.96495649 2.06384374] w\_new= [-0.02880613 0.96495617 2.06384996]

gradient= [-5.89131896e-04 -3.25200651e-05 6.21651961e-04] w = [-0.02880613 0.96495617 2.06384996] w\_new= [-0.02881202 0.96495584 2.06385618]

gradient= [-5.88272199e-04 -3.24773846e-05 6.20749583e-04] w = [-0.02881202 0.96495584 2.06385618] w\_new= [-0.0288179 0.96495552 2.06386239]

gradient= [-5.87413758e-04 -3.24347592e-05 6.19848517e-04] w = [-0.0288179 0.96495552 2.06386239] w\_new= [-0.02882378 0.96495519 2.06386859]

gradient= [-5.86556572e-04 -3.23921889e-05 6.18948761e-04] w = [-0.02882378 0.96495519 2.06386859] w\_new= [-0.02882964 0.96495487 2.06387478]

gradient= [-5.85700640e-04 -3.23496736e-05 6.18050314e-04] w = [-0.02882964 0.96495487 2.06387478] w\_new= [-0.0288355 0.96495454 2.06388096]

gradient= [-5.84845959e-04 -3.23072131e-05 6.17153172e-04] w = [-0.0288355 0.96495454 2.06388096] w\_new= [-0.02884135 0.96495422 2.06388713]

gradient= [-5.83992528e-04 -3.22648076e-05 6.16257336e-04] w = [-0.02884135 0.96495422 2.06388713] w\_new= [-0.02884719 0.9649539 2.06389329]

gradient= [-5.83140345e-04 -3.22224568e-05 6.15362801e-04] w = [-0.02884719 0.9649539 2.06389329] w\_new= [-0.02885302 0.96495358 2.06389944]

gradient= [-5.82289407e-04 -3.21801608e-05 6.14469568e-04] w = [-0.02885302 0.96495358 2.06389944] w\_new= [-0.02885884 0.96495325 2.06390559]

gradient= [-5.81439714e-04 -3.21379194e-05 6.13577633e-04] w = [-0.02885884 0.96495325 2.06390559] w\_new= [-0.02886466 0.96495293 2.06391172]

gradient= [-5.80591262e-04 -3.20957326e-05 6.12686995e-04] w = [-0.02886466 0.96495293 2.06391172] w\_new= [-0.02887046 0.96495261 2.06391785]

gradient= [-5.79744052e-04 -3.20536003e-05 6.11797652e-04] w = [-0.02887046 0.96495261 2.06391785] w\_new= [-0.02887626 0.96495229 2.06392397]

gradient= [-5.78898080e-04 -3.20115224e-05 6.10909602e-04] w = [-0.02887626 0.96495229 2.06392397] w\_new= [-0.02888205 0.96495197 2.06393008]

gradient= [-5.78053344e-04 -3.19694989e-05 6.10022843e-04] w = [-0.02888205 0.96495197 2.06393008] w\_new= [-0.02888783 0.96495165 2.06393618]

gradient= [-5.77209844e-04 -3.19275297e-05 6.09137374e-04] w = [-0.02888783 0.96495165 2.06393618] w\_new= [-0.0288936 0.96495133 2.06394227]

gradient= [-5.76367577e-04 -3.18856148e-05 6.08253192e-04] w = [-0.0288936 0.96495133 2.06394227] w\_new= [-0.02889937 0.96495101 2.06394835]

gradient= [-5.75526541e-04 -3.18437540e-05 6.07370295e-04] w = [-0.02889937 0.96495101 2.06394835] w\_new= [-0.02890512 0.96495069 2.06395443]

gradient= [-5.74686735e-04 -3.18019473e-05 6.06488682e-04] w = [-0.02890512 0.96495069 2.06395443] w\_new= [-0.02891087 0.96495038 2.06396049]

gradient= [-5.73848157e-04 -3.17601946e-05 6.05608351e-04] w = [-0.02891087 0.96495038 2.06396049] w\_new= [-0.02891661 0.96495006 2.06396655]

gradient= [-5.73010804e-04 -3.17184959e-05 6.04729300e-04] w = [-0.02891661 0.96495006 2.06396655] w\_new= [-0.02892234 0.96494974 2.06397259]

gradient= [-5.72174676e-04 -3.16768510e-05 6.03851527e-04] w = [-0.02892234 0.96494974 2.06397259] w\_new= [-0.02892806 0.96494943 2.06397863]

gradient= [-5.7133977e-04 -3.1635260e-05 6.0297503e-04] w = [-0.02892806 0.96494943 2.06397863] w\_new= [-0.02893377 0.96494911 2.06398466]

gradient= [-5.70506085e-04 -3.15937228e-05 6.02099808e-04] w = [-0.02893377 0.96494911 2.06398466] w\_new= [-0.02893948 0.96494879 2.06399068]

gradient= [-5.69673618e-04 -3.15522392e-05 6.01225858e-04] w = [-0.02893948 0.96494879 2.06399068] w\_new= [-0.02894517 0.96494848 2.0639967 ]

gradient= [-5.68842369e-04 -3.15108093e-05 6.00353178e-04] w = [-0.02894517 0.96494848 2.0639967 ] w\_new= [-0.02895086 0.96494816 2.0640027 ]

gradient= [-5.68012335e-04 -3.14694329e-05 5.99481768e-04] w = [-0.02895086 0.96494816 2.0640027 ] w\_new= [-0.02895654 0.96494785 2.06400869]

gradient= [-5.67183514e-04 -3.14281099e-05 5.98611624e-04] w = [-0.02895654 0.96494785 2.06400869] w\_new= [-0.02896221 0.96494753 2.06401468]

gradient= [-5.66355905e-04 -3.13868404e-05 5.97742745e-04] w = [-0.02896221 0.96494753 2.06401468] w\_new= [-0.02896788 0.96494722 2.06402066]

gradient= [-5.65529505e-04 -3.13456242e-05 5.96875130e-04] w = [-0.02896788 0.96494722 2.06402066] w\_new= [-0.02897353 0.96494691 2.06402663]

gradient= [-5.64704314e-04 -3.13044613e-05 5.96008776e-04] w = [-0.02897353 0.96494691 2.06402663] w\_new= [-0.02897918 0.96494659 2.06403259]

gradient= [-5.63880329e-04 -3.12633517e-05 5.95143681e-04] w = [-0.02897918 0.96494659 2.06403259] w\_new= [-0.02898482 0.96494628 2.06403854]

gradient= [-5.63057549e-04 -3.12222951e-05 5.94279844e-04] w = [-0.02898482 0.96494628 2.06403854] w\_new= [-0.02899045 0.96494597 2.06404448]

gradient= [-5.62235971e-04 -3.11812916e-05 5.93417263e-04] w = [-0.02899045 0.96494597 2.06404448] w\_new= [-0.02899607 0.96494566 2.06405041]

gradient= [-5.61415595e-04 -3.11403412e-05 5.92555936e-04] w = [-0.02899607 0.96494566 2.06405041] w\_new= [-0.02900169 0.96494534 2.06405634]

gradient= [-5.60596418e-04 -3.10994436e-05 5.91695861e-04] w = [-0.02900169 0.96494534 2.06405634] w\_new= [-0.02900729 0.96494503 2.06406226]

gradient= [-5.59778438e-04 -3.10585990e-05 5.90837037e-04] w = [-0.02900729 0.96494503 2.06406226] w\_new= [-0.02901289 0.96494472 2.06406817]

gradient= [-5.58961654e-04 -3.10178071e-05 5.89979461e-04] w = [-0.02901289 0.96494472 2.06406817] w\_new= [-0.02901848 0.96494441 2.06407407]

gradient= [-5.58146064e-04 -3.09770680e-05 5.89123132e-04] w = [-0.02901848 0.96494441 2.06407407] w\_new= [-0.02902406 0.9649441 2.06407996]

gradient= [-5.57331666e-04 -3.09363816e-05 5.88268048e-04] w = [-0.02902406 0.9649441 2.06407996] w\_new= [-0.02902963 0.96494379 2.06408584]

gradient= [-5.56518459e-04 -3.08957477e-05 5.87414207e-04] w = [-0.02902963 0.96494379 2.06408584] w\_new= [-0.0290352 0.96494348 2.06409171]

gradient= [-5.55706440e-04 -3.08551664e-05 5.86561607e-04] w = [-0.0290352 0.96494348 2.06409171] w\_new= [-0.02904076 0.96494318 2.06409758]

gradient= [-5.54895609e-04 -3.08146376e-05 5.85710246e-04] w = [-0.02904076 0.96494318 2.06409758] w\_new= [-0.0290463 0.96494287 2.06410344]

gradient= [-5.54085963e-04 -3.07741611e-05 5.84860124e-04] w = [-0.0290463 0.96494287 2.06410344] w\_new= [-0.02905185 0.96494256 2.06410928]

gradient= [-5.53277500e-04 -3.07337370e-05 5.84011237e-04] w = [-0.02905185 0.96494256 2.06410928] w\_new= [-0.02905738 0.96494225 2.06411512]

gradient= [-5.52470219e-04 -3.06933652e-05 5.83163584e-04] w = [-0.02905738 0.96494225 2.06411512] w\_new= [-0.0290629 0.96494195 2.06412096]

gradient= [-5.51664118e-04 -3.06530456e-05 5.82317164e-04] w = [-0.0290629 0.96494195 2.06412096] w\_new= [-0.02906842 0.96494164 2.06412678]

gradient= [-5.50859195e-04 -3.06127781e-05 5.81471974e-04] w = [-0.02906842 0.96494164 2.06412678] w\_new= [-0.02907393 0.96494133 2.06413259]

gradient= [-5.50055449e-04 -3.05725627e-05 5.80628012e-04] w = [-0.02907393 0.96494133 2.06413259] w\_new= [-0.02907943 0.96494103 2.0641384 ]

gradient= [-5.49252878e-04 -3.05323993e-05 5.79785278e-04] w = [-0.02907943 0.96494103 2.0641384 ] w\_new= [-0.02908492 0.96494072 2.0641442 ]

gradient= [-5.48451480e-04 -3.04922878e-05 5.78943768e-04] w = [-0.02908492 0.96494072 2.0641442 ] w\_new= [-0.02909041 0.96494042 2.06414999]

gradient= [-5.47651254e-04 -3.04522282e-05 5.78103482e-04] w = [-0.02909041 0.96494042 2.06414999] w\_new= [-0.02909588 0.96494011 2.06415577]

gradient= [-5.46852197e-04 -3.04122204e-05 5.77264417e-04] w = [-0.02909588 0.96494011 2.06415577] w\_new= [-0.02910135 0.96493981 2.06416154]

gradient= [-5.46054308e-04 -3.03722643e-05 5.76426573e-04] w = [-0.02910135 0.96493981 2.06416154] w\_new= [-0.02910681 0.96493951 2.06416731]

gradient= [-5.45257586e-04 -3.03323599e-05 5.75589946e-04] w = [-0.02910681 0.96493951 2.06416731] w\_new= [-0.02911226 0.9649392 2.06417306]

gradient= [-5.44462028e-04 -3.02925072e-05 5.74754535e-04] w = [-0.02911226 0.9649392 2.06417306] w\_new= [-0.02911771 0.9649389 2.06417881]

gradient= [-5.43667633e-04 -3.02527059e-05 5.73920339e-04] w = [-0.02911771 0.9649389 2.06417881] w\_new= [-0.02912315 0.9649386 2.06418455]

gradient= [-5.42874399e-04 -3.02129562e-05 5.73087355e-04] w = [-0.02912315 0.9649386 2.06418455] w\_new= [-0.02912857 0.96493829 2.06419028]

gradient= [-5.42082324e-04 -3.01732579e-05 5.72255582e-04] w = [-0.02912857 0.96493829 2.06419028] w\_new= [-0.02913399 0.96493799 2.064196 ]

gradient= [-5.41291407e-04 -3.01336109e-05 5.71425018e-04] w = [-0.02913399 0.96493799 2.064196 ] w\_new= [-0.02913941 0.96493769 2.06420172]

gradient= [-5.40501647e-04 -3.00940151e-05 5.70595662e-04] w = [-0.02913941 0.96493769 2.06420172] w\_new= [-0.02914481 0.96493739 2.06420742]

gradient= [-5.39713040e-04 -3.00544707e-05 5.69767511e-04] w = [-0.02914481 0.96493739 2.06420742] w\_new= [-0.02915021 0.96493709 2.06421312]

gradient= [-5.38925587e-04 -3.00149773e-05 5.68940564e-04] w = [-0.02915021 0.96493709 2.06421312] w\_new= [-0.0291556 0.96493679 2.06421881]

gradient= [-5.38139284e-04 -2.99755351e-05 5.68114819e-04] w = [-0.0291556 0.96493679 2.06421881] w\_new= [-0.02916098 0.96493649 2.06422449]

gradient= [-5.37354130e-04 -2.99361438e-05 5.67290274e-04] w = [-0.02916098 0.96493649 2.06422449] w\_new= [-0.02916635 0.96493619 2.06423016]

gradient= [-5.36570125e-04 -2.98968035e-05 5.66466928e-04] w = [-0.02916635 0.96493619 2.06423016] w\_new= [-0.02917172 0.96493589 2.06423583]

gradient= [-5.35787265e-04 -2.98575142e-05 5.65644779e-04] w = [-0.02917172 0.96493589 2.06423583] w\_new= [-0.02917708 0.96493559 2.06424148]

gradient= [-5.35005549e-04 -2.98182756e-05 5.64823825e-04] w = [-0.02917708 0.96493559 2.06424148] w\_new= [-0.02918243 0.96493529 2.06424713]

gradient= [-5.34224976e-04 -2.97790878e-05 5.64004064e-04] w = [-0.02918243 0.96493529 2.06424713] w\_new= [-0.02918777 0.964935 2.06425277]

gradient= [-5.33445544e-04 -2.97399507e-05 5.63185494e-04] w = [-0.02918777 0.964935 2.06425277] w\_new= [-0.0291931 0.9649347 2.0642584]

gradient= [-5.32667251e-04 -2.97008642e-05 5.62368115e-04] w = [-0.0291931 0.9649347 2.0642584] w\_new= [-0.02919843 0.9649344 2.06426403]

gradient= [-5.31890095e-04 -2.96618283e-05 5.61551924e-04] w = [-0.02919843 0.9649344 2.06426403] w\_new= [-0.02920375 0.96493411 2.06426964]

gradient= [-5.31114076e-04 -2.96228430e-05 5.60736919e-04] w = [-0.02920375 0.96493411 2.06426964] w\_new= [-0.02920906 0.96493381 2.06427525]

gradient= [-5.30339190e-04 -2.95839080e-05 5.59923098e-04] w = [-0.02920906 0.96493381 2.06427525] w\_new= [-0.02921436 0.96493351 2.06428085]

gradient= [-5.29565437e-04 -2.95450234e-05 5.59110461e-04] w = [-0.02921436 0.96493351 2.06428085] w\_new= [-0.02921966 0.96493322 2.06428644]

gradient= [-5.28792815e-04 -2.95061892e-05 5.58299005e-04] w = [-0.02921966 0.96493322 2.06428644] w\_new= [-0.02922495 0.96493292 2.06429202]

gradient= [-5.28021323e-04 -2.94674052e-05 5.57488728e-04] w = [-0.02922495 0.96493292 2.06429202] w\_new= [-0.02923023 0.96493263 2.0642976 ]

gradient= [-5.27250957e-04 -2.94286713e-05 5.56679629e-04] w = [-0.02923023 0.96493263 2.0642976 ] w\_new= [-0.0292355 0.96493233 2.06430317]

gradient= [-5.26481718e-04 -2.93899876e-05 5.55871706e-04] w = [-0.0292355 0.96493233 2.06430317] w\_new= [-0.02924077 0.96493204 2.06430872]

gradient= [-5.25713603e-04 -2.93513540e-05 5.55064957e-04] w = [-0.02924077 0.96493204 2.06430872] w\_new= [-0.02924602 0.96493175 2.06431428]

gradient= [-5.24946611e-04 -2.93127703e-05 5.54259381e-04] w = [-0.02924602 0.96493175 2.06431428] w\_new= [-0.02925127 0.96493145 2.06431982]

gradient= [-5.24180739e-04 -2.92742366e-05 5.53454976e-04] w = [-0.02925127 0.96493145 2.06431982] w\_new= [-0.02925651 0.96493116 2.06432535]

gradient= [-5.23415987e-04 -2.92357527e-05 5.52651740e-04] w = [-0.02925651 0.96493116 2.06432535] w\_new= [-0.02926175 0.96493087 2.06433088]

gradient= [-5.22652353e-04 -2.91973187e-05 5.51849671e-04] w = [-0.02926175 0.96493087 2.06433088] w\_new= [-0.02926697 0.96493058 2.0643364 ]

gradient= [-5.21889834e-04 -2.91589344e-05 5.51048769e-04] w = [-0.02926697 0.96493058 2.0643364 ] w\_new= [-0.02927219 0.96493029 2.06434191]

gradient= [-5.21128430e-04 -2.91205997e-05 5.50249030e-04] w = [-0.02927219 0.96493029 2.06434191] w\_new= [-0.0292774 0.96492999 2.06434741]

gradient= [-5.20368139e-04 -2.90823147e-05 5.49450454e-04] w = [-0.0292774 0.96492999 2.06434741] w\_new= [-0.02928261 0.9649297 2.06435291]

gradient= [-5.19608959e-04 -2.90440792e-05 5.48653038e-04] w = [-0.02928261 0.9649297 2.06435291] w\_new= [-0.0292878 0.96492941 2.06435839]

gradient= [-5.18850889e-04 -2.90058932e-05 5.47856782e-04] w = [-0.0292878 0.96492941 2.06435839] w\_new= [-0.02929299 0.96492912 2.06436387]

gradient= [-5.18093926e-04 -2.89677566e-05 5.47061683e-04] w = [-0.02929299 0.96492912 2.06436387] w\_new= [-0.02929817 0.96492883 2.06436934]

gradient= [-5.17338070e-04 -2.89296694e-05 5.46267739e-04] w = [-0.02929817 0.96492883 2.06436934] w\_new= [-0.02930335 0.96492854 2.0643748 ]

gradient= [-5.16583318e-04 -2.88916315e-05 5.45474950e-04] w = [-0.02930335 0.96492854 2.0643748 ] w\_new= [-0.02930851 0.96492825 2.06438026]

gradient= [-5.15829669e-04 -2.88536429e-05 5.44683312e-04] w = [-0.02930851 0.96492825 2.06438026] w\_new= [-0.02931367 0.96492797 2.06438571]

gradient= [-5.15077122e-04 -2.88157034e-05 5.43892825e-04] w = [-0.02931367 0.96492797 2.06438571] w\_new= [-0.02931882 0.96492768 2.06439114]

gradient= [-5.14325674e-04 -2.87778130e-05 5.43103487e-04] w = [-0.02931882 0.96492768 2.06439114] w\_new= [-0.02932397 0.96492739 2.06439658]

gradient= [-5.13575325e-04 -2.87399716e-05 5.42315297e-04] w = [-0.02932397 0.96492739 2.06439658] w\_new= [-0.0293291 0.9649271 2.064402 ]

gradient= [-5.12826072e-04 -2.87021793e-05 5.41528252e-04] w = [-0.0293291 0.9649271 2.064402 ] w\_new= [-0.02933423 0.96492682 2.06440741]

gradient= [-5.12077914e-04 -2.86644358e-05 5.40742350e-04] w = [-0.02933423 0.96492682 2.06440741] w\_new= [-0.02933935 0.96492653 2.06441282]

gradient= [-5.11330850e-04 -2.86267413e-05 5.39957591e-04] w = [-0.02933935 0.96492653 2.06441282] w\_new= [-0.02934446 0.96492624 2.06441822]

gradient= [-5.10584877e-04 -2.85890955e-05 5.39173973e-04] w = [-0.02934446 0.96492624 2.06441822] w\_new= [-0.02934957 0.96492596 2.06442361]

gradient= [-5.09839995e-04 -2.85514985e-05 5.38391493e-04] w = [-0.02934957 0.96492596 2.06442361] w\_new= [-0.02935467 0.96492567 2.064429 ]

gradient= [-5.09096201e-04 -2.85139501e-05 5.37610151e-04] w = [-0.02935467 0.96492567 2.064429 ] w\_new= [-0.02935976 0.96492539 2.06443437]

gradient= [-5.08353494e-04 -2.84764503e-05 5.36829944e-04] w = [-0.02935976 0.96492539 2.06443437] w\_new= [-0.02936484 0.9649251 2.06443974]

gradient= [-5.07611872e-04 -2.84389991e-05 5.36050871e-04] w = [-0.02936484 0.9649251 2.06443974] w\_new= [-0.02936992 0.96492482 2.0644451 ]

gradient= [-5.06871334e-04 -2.84015964e-05 5.35272931e-04] w = [-0.02936992 0.96492482 2.0644451 ] w\_new= [-0.02937499 0.96492453 2.06445045]

gradient= [-5.06131878e-04 -2.83642422e-05 5.34496120e-04] w = [-0.02937499 0.96492453 2.06445045] w\_new= [-0.02938005 0.96492425 2.0644558 ]

gradient= [-5.05393503e-04 -2.83269362e-05 5.33720439e-04] w = [-0.02938005 0.96492425 2.0644558 ] w\_new= [-0.0293851 0.96492397 2.06446114]

gradient= [-5.04656207e-04 -2.82896786e-05 5.32945886e-04] w = [-0.0293851 0.96492397 2.06446114] w\_new= [-0.02939015 0.96492368 2.06446647]

gradient= [-5.03919988e-04 -2.82524693e-05 5.32172458e-04] w = [-0.02939015 0.96492368 2.06446647] w\_new= [-0.02939519 0.9649234 2.06447179]

gradient= [-5.03184846e-04 -2.82153081e-05 5.31400154e-04] w = [-0.02939519 0.9649234 2.06447179] w\_new= [-0.02940022 0.96492312 2.0644771 ]

gradient= [-5.02450777e-04 -2.81781950e-05 5.30628972e-04] w = [-0.02940022 0.96492312 2.0644771 ] w\_new= [-0.02940524 0.96492284 2.06448241]

gradient= [-5.01717781e-04 -2.81411300e-05 5.29858911e-04] w = [-0.02940524 0.96492284 2.06448241] w\_new= [-0.02941026 0.96492256 2.06448771]

gradient= [-5.00985856e-04 -2.81041130e-05 5.29089969e-04] w = [-0.02941026 0.96492256 2.06448771] w\_new= [-0.02941527 0.96492227 2.064493 ]

gradient= [-5.00255001e-04 -2.80671439e-05 5.28322145e-04] w = [-0.02941527 0.96492227 2.064493 ] w\_new= [-0.02942027 0.96492199 2.06449828]

gradient= [-4.99525214e-04 -2.80302227e-05 5.27555437e-04] w = [-0.02942027 0.96492199 2.06449828] w\_new= [-0.02942527 0.96492171 2.06450356]

gradient= [-4.98796493e-04 -2.79933493e-05 5.26789842e-04] w = [-0.02942527 0.96492171 2.06450356] w\_new= [-0.02943026 0.96492143 2.06450882]

gradient= [-4.98068837e-04 -2.79565237e-05 5.26025361e-04] w = [-0.02943026 0.96492143 2.06450882] w\_new= [-0.02943524 0.96492115 2.06451408]

gradient= [-4.97342245e-04 -2.79197458e-05 5.25261990e-04] w = [-0.02943524 0.96492115 2.06451408] w\_new= [-0.02944021 0.96492087 2.06451934]

gradient= [-4.96616714e-04 -2.78830155e-05 5.24499729e-04] w = [-0.02944021 0.96492087 2.06451934] w\_new= [-0.02944518 0.9649206 2.06452458]

gradient= [-4.95892243e-04 -2.78463327e-05 5.23738576e-04] w = [-0.02944518 0.9649206 2.06452458] w\_new= [-0.02945014 0.96492032 2.06452982]

gradient= [-4.95168831e-04 -2.78096975e-05 5.22978528e-04] w = [-0.02945014 0.96492032 2.06452982] w\_new= [-0.02945509 0.96492004 2.06453505]

gradient= [-4.94446476e-04 -2.77731097e-05 5.22219586e-04] w = [-0.02945509 0.96492004 2.06453505] w\_new= [-0.02946003 0.96491976 2.06454027]

gradient= [-4.93725176e-04 -2.77365693e-05 5.21461746e-04] w = [-0.02946003 0.96491976 2.06454027] w\_new= [-0.02946497 0.96491948 2.06454549]

gradient= [-4.93004931e-04 -2.77000763e-05 5.20705007e-04] w = [-0.02946497 0.96491948 2.06454549] w\_new= [-0.0294699 0.96491921 2.06455069]

gradient= [-4.92285738e-04 -2.76636305e-05 5.19949368e-04] w = [-0.0294699 0.96491921 2.06455069] w\_new= [-0.02947482 0.96491893 2.06455589]

gradient= [-4.91567596e-04 -2.76272319e-05 5.19194828e-04] w = [-0.02947482 0.96491893 2.06455589] w\_new= [-0.02947974 0.96491865 2.06456108]

gradient= [-4.90850503e-04 -2.75908805e-05 5.18441384e-04] w = [-0.02947974 0.96491865 2.06456108] w\_new= [-0.02948465 0.96491838 2.06456627]

gradient= [-4.90134458e-04 -2.75545762e-05 5.17689034e-04] w = [-0.02948465 0.96491838 2.06456627] w\_new= [-0.02948955 0.9649181 2.06457145]

gradient= [-4.89419459e-04 -2.75183189e-05 5.16937778e-04] w = [-0.02948955 0.9649181 2.06457145] w\_new= [-0.02949444 0.96491783 2.06457661]

gradient= [-4.88705505e-04 -2.74821086e-05 5.16187614e-04] w = [-0.02949444 0.96491783 2.06457661] w\_new= [-0.02949933 0.96491755 2.06458178]

gradient= [-4.87992595e-04 -2.74459451e-05 5.15438540e-04] w = [-0.02949933 0.96491755 2.06458178] w\_new= [-0.02950421 0.96491728 2.06458693]

gradient= [-4.87280726e-04 -2.74098286e-05 5.14690554e-04] w = [-0.02950421 0.96491728 2.06458693] w\_new= [-0.02950908 0.964917 2.06459208]

gradient= [-4.86569897e-04 -2.73737588e-05 5.13943655e-04] w = [-0.02950908 0.964917 2.06459208] w\_new= [-0.02951395 0.96491673 2.06459722]

gradient= [-4.85860106e-04 -2.73377357e-05 5.13197842e-04] w = [-0.02951395 0.96491673 2.06459722] w\_new= [-0.02951881 0.96491646 2.06460235]

gradient= [-4.85151353e-04 -2.73017593e-05 5.12453113e-04] w = [-0.02951881 0.96491646 2.06460235] w\_new= [-0.02952366 0.96491618 2.06460747]

gradient= [-4.84443636e-04 -2.72658296e-05 5.11709465e-04] w = [-0.02952366 0.96491618 2.06460747] w\_new= [-0.0295285 0.96491591 2.06461259]

gradient= [-4.83736952e-04 -2.72299464e-05 5.10966899e-04] w = [-0.0295285 0.96491591 2.06461259] w\_new= [-0.02953334 0.96491564 2.0646177 ]

gradient= [-4.83031301e-04 -2.71941096e-05 5.10225411e-04] w = [-0.02953334 0.96491564 2.0646177 ] w\_new= [-0.02953817 0.96491537 2.0646228 ]

gradient= [-4.82326681e-04 -2.71583194e-05 5.09485001e-04] w = [-0.02953817 0.96491537 2.0646228 ] w\_new= [-0.02954299 0.9649151 2.0646279 ]

gradient= [-4.81623091e-04 -2.71225754e-05 5.08745667e-04] w = [-0.02954299 0.9649151 2.0646279 ] w\_new= [-0.02954781 0.96491482 2.06463299]

gradient= [-4.80920529e-04 -2.70868778e-05 5.08007407e-04] w = [-0.02954781 0.96491482 2.06463299] w\_new= [-0.02955262 0.96491455 2.06463807]

gradient= [-4.80218993e-04 -2.70512265e-05 5.07270220e-04] w = [-0.02955262 0.96491455 2.06463807] w\_new= [-0.02955742 0.96491428 2.06464314]

gradient= [-4.79518482e-04 -2.70156214e-05 5.06534104e-04] w = [-0.02955742 0.96491428 2.06464314] w\_new= [-0.02956222 0.96491401 2.0646482 ]

gradient= [-4.78818995e-04 -2.69800624e-05 5.05799057e-04] w = [-0.02956222 0.96491401 2.0646482 ] w\_new= [-0.029567 0.96491374 2.06465326]

gradient= [-4.78120530e-04 -2.69445494e-05 5.05065079e-04] w = [-0.029567 0.96491374 2.06465326] w\_new= [-0.02957179 0.96491347 2.06465831]

gradient= [-4.77423085e-04 -2.69090825e-05 5.04332167e-04] w = [-0.02957179 0.96491347 2.06465831] w\_new= [-0.02957656 0.9649132 2.06466336]

gradient= [-4.76726659e-04 -2.68736616e-05 5.03600321e-04] w = [-0.02957656 0.9649132 2.06466336] w\_new= [-0.02958133 0.96491294 2.06466839]

gradient= [-4.76031251e-04 -2.68382866e-05 5.02869538e-04] w = [-0.02958133 0.96491294 2.06466839] w\_new= [-0.02958609 0.96491267 2.06467342]

gradient= [-4.75336859e-04 -2.68029574e-05 5.02139816e-04] w = [-0.02958609 0.96491267 2.06467342] w\_new= [-0.02959084 0.9649124 2.06467844]

gradient= [-4.74643481e-04 -2.67676740e-05 5.01411155e-04] w = [-0.02959084 0.9649124 2.06467844] w\_new= [-0.02959559 0.96491213 2.06468346]

gradient= [-4.73951117e-04 -2.67324363e-05 5.00683553e-04] w = [-0.02959559 0.96491213 2.06468346] w\_new= [-0.02960033 0.96491186 2.06468846]

gradient= [-4.73259764e-04 -2.66972443e-05 4.99957008e-04] w = [-0.02960033 0.96491186 2.06468846] w\_new= [-0.02960506 0.9649116 2.06469346]

gradient= [-4.72569421e-04 -2.66620979e-05 4.99231519e-04] w = [-0.02960506 0.9649116 2.06469346] w\_new= [-0.02960979 0.96491133 2.06469845]

gradient= [-4.71880087e-04 -2.66269971e-05 4.98507084e-04] w = [-0.02960979 0.96491133 2.06469845] w\_new= [-0.0296145 0.96491106 2.06470344]

gradient= [-4.71191759e-04 -2.65919418e-05 4.97783701e-04] w = [-0.0296145 0.96491106 2.06470344] w\_new= [-0.02961922 0.9649108 2.06470842]

gradient= [-4.70504438e-04 -2.65569319e-05 4.97061370e-04] w = [-0.02961922 0.9649108 2.06470842] w\_new= [-0.02962392 0.96491053 2.06471339]

gradient= [-4.69818121e-04 -2.65219674e-05 4.96340088e-04] w = [-0.02962392 0.96491053 2.06471339] w\_new= [-0.02962862 0.96491027 2.06471835]

gradient= [-4.69132806e-04 -2.64870482e-05 4.95619854e-04] w = [-0.02962862 0.96491027 2.06471835] w\_new= [-0.02963331 0.96491 2.06472331]

gradient= [-4.68448493e-04 -2.64521743e-05 4.94900667e-04] w = [-0.02963331 0.96491 2.06472331] w\_new= [-0.02963799 0.96490974 2.06472826]

gradient= [-4.67765179e-04 -2.64173455e-05 4.94182525e-04] w = [-0.02963799 0.96490974 2.06472826] w\_new= [-0.02964267 0.96490947 2.0647332 ]

gradient= [-4.67082864e-04 -2.63825620e-05 4.93465426e-04] w = [-0.02964267 0.96490947 2.0647332 ] w\_new= [-0.02964734 0.96490921 2.06473813]

gradient= [-4.66401546e-04 -2.63478235e-05 4.92749369e-04] w = [-0.02964734 0.96490921 2.06473813] w\_new= [-0.02965201 0.96490895 2.06474306]

gradient= [-4.65721223e-04 -2.63131301e-05 4.92034353e-04] w = [-0.02965201 0.96490895 2.06474306] w\_new= [-0.02965666 0.96490868 2.06474798]

gradient= [-4.65041893e-04 -2.62784816e-05 4.91320375e-04] w = [-0.02965666 0.96490868 2.06474798] w\_new= [-0.02966132 0.96490842 2.06475289]

gradient= [-4.64363557e-04 -2.62438781e-05 4.90607435e-04] w = [-0.02966132 0.96490842 2.06475289] w\_new= [-0.02966596 0.96490816 2.0647578 ]

gradient= [-4.63686211e-04 -2.62093194e-05 4.89895531e-04] w = [-0.02966596 0.96490816 2.0647578 ] w\_new= [-0.0296706 0.9649079 2.0647627]

gradient= [-4.63009855e-04 -2.61748055e-05 4.89184661e-04] w = [-0.0296706 0.9649079 2.0647627] w\_new= [-0.02967523 0.96490764 2.06476759]

gradient= [-4.62334487e-04 -2.61403364e-05 4.88474824e-04] w = [-0.02967523 0.96490764 2.06476759] w\_new= [-0.02967985 0.96490737 2.06477248]

gradient= [-4.61660106e-04 -2.61059120e-05 4.87766018e-04] w = [-0.02967985 0.96490737 2.06477248] w\_new= [-0.02968447 0.96490711 2.06477735]

gradient= [-4.60986710e-04 -2.60715322e-05 4.87058242e-04] w = [-0.02968447 0.96490711 2.06477735] w\_new= [-0.02968908 0.96490685 2.06478222]

gradient= [-4.60314298e-04 -2.60371970e-05 4.86351495e-04] w = [-0.02968908 0.96490685 2.06478222] w\_new= [-0.02969368 0.96490659 2.06478709]

gradient= [-4.59642868e-04 -2.60029063e-05 4.85645774e-04] w = [-0.02969368 0.96490659 2.06478709] w\_new= [-0.02969828 0.96490633 2.06479194]

gradient= [-4.58972419e-04 -2.59686601e-05 4.84941079e-04] w = [-0.02969828 0.96490633 2.06479194] w\_new= [-0.02970286 0.96490607 2.06479679]

gradient= [-4.58302949e-04 -2.59344583e-05 4.84237408e-04] w = [-0.02970286 0.96490607 2.06479679] w\_new= [-0.02970745 0.96490581 2.06480164]

gradient= [-4.57634458e-04 -2.59003008e-05 4.83534759e-04] w = [-0.02970745 0.96490581 2.06480164] w\_new= [-0.02971202 0.96490555 2.06480647]

gradient= [-4.56966943e-04 -2.58661876e-05 4.82833131e-04] w = [-0.02971202 0.96490555 2.06480647] w\_new= [-0.02971659 0.96490529 2.0648113 ]

gradient= [-4.56300403e-04 -2.58321187e-05 4.82132522e-04] w = [-0.02971659 0.96490529 2.0648113 ] w\_new= [-0.02972116 0.96490504 2.06481612]

gradient= [-4.55634837e-04 -2.57980940e-05 4.81432931e-04] w = [-0.02972116 0.96490504 2.06481612] w\_new= [-0.02972571 0.96490478 2.06482093]

gradient= [-4.54970244e-04 -2.57641133e-05 4.80734357e-04] w = [-0.02972571 0.96490478 2.06482093] w\_new= [-0.02973026 0.96490452 2.06482574]

gradient= [-4.54306621e-04 -2.57301768e-05 4.80036797e-04] w = [-0.02973026 0.96490452 2.06482574] w\_new= [-0.02973481 0.96490426 2.06483054]

gradient= [-4.53643967e-04 -2.56962842e-05 4.79340252e-04] w = [-0.02973481 0.96490426 2.06483054] w\_new= [-0.02973934 0.96490401 2.06483534]

gradient= [-4.52982282e-04 -2.56624357e-05 4.78644718e-04] w = [-0.02973934 0.96490401 2.06483534] w\_new= [-0.02974387 0.96490375 2.06484012]

gradient= [-4.52321563e-04 -2.56286310e-05 4.77950194e-04] w = [-0.02974387 0.96490375 2.06484012] w\_new= [-0.0297484 0.96490349 2.0648449 ]

gradient= [-4.51661810e-04 -2.55948701e-05 4.77256680e-04] w = [-0.0297484 0.96490349 2.0648449 ] w\_new= [-0.02975291 0.96490324 2.06484967]

gradient= [-4.51003020e-04 -2.55611531e-05 4.76564173e-04] w = [-0.02975291 0.96490324 2.06484967] w\_new= [-0.02975742 0.96490298 2.06485444]

gradient= [-4.50345193e-04 -2.55274798e-05 4.75872673e-04] w = [-0.02975742 0.96490298 2.06485444] w\_new= [-0.02976193 0.96490273 2.0648592 ]

gradient= [-4.49688326e-04 -2.54938502e-05 4.75182177e-04] w = [-0.02976193 0.96490273 2.0648592 ] w\_new= [-0.02976642 0.96490247 2.06486395]

gradient= [-4.49032420e-04 -2.54602642e-05 4.74492684e-04] w = [-0.02976642 0.96490247 2.06486395] w\_new= [-0.02977091 0.96490222 2.0648687 ]

gradient= [-4.48377471e-04 -2.54267217e-05 4.73804193e-04] w = [-0.02977091 0.96490222 2.0648687 ] w\_new= [-0.0297754 0.96490196 2.06487343]

gradient= [-4.47723479e-04 -2.53932228e-05 4.73116702e-04] w = [-0.0297754 0.96490196 2.06487343] w\_new= [-0.02977987 0.96490171 2.06487816]

gradient= [-4.47070443e-04 -2.53597673e-05 4.72430210e-04] w = [-0.02977987 0.96490171 2.06487816] w\_new= [-0.02978434 0.96490146 2.06488289]

gradient= [-4.46418360e-04 -2.53263552e-05 4.71744715e-04] w = [-0.02978434 0.96490146 2.06488289] w\_new= [-0.02978881 0.9649012 2.06488761]

gradient= [-4.45767230e-04 -2.52929865e-05 4.71060217e-04] w = [-0.02978881 0.9649012 2.06488761] w\_new= [-0.02979327 0.96490095 2.06489232]

gradient= [-4.45117051e-04 -2.52596611e-05 4.70376712e-04] w = [-0.02979327 0.96490095 2.06489232] w\_new= [-0.02979772 0.9649007 2.06489702]

gradient= [-4.44467822e-04 -2.52263789e-05 4.69694201e-04] w = [-0.02979772 0.9649007 2.06489702] w\_new= [-0.02980216 0.96490044 2.06490172]

gradient= [-4.43819541e-04 -2.51931398e-05 4.69012681e-04] w = [-0.02980216 0.96490044 2.06490172] w\_new= [-0.0298066 0.96490019 2.06490641]

gradient= [-4.43172208e-04 -2.51599439e-05 4.68332152e-04] w = [-0.0298066 0.96490019 2.06490641] w\_new= [-0.02981103 0.96489994 2.06491109]

gradient= [-4.42525820e-04 -2.51267911e-05 4.67652611e-04] w = [-0.02981103 0.96489994 2.06491109] w\_new= [-0.02981546 0.96489969 2.06491577]

gradient= [-4.41880376e-04 -2.50936813e-05 4.66974057e-04] w = [-0.02981546 0.96489969 2.06491577] w\_new= [-0.02981988 0.96489944 2.06492044]

gradient= [-4.41235875e-04 -2.50606144e-05 4.66296489e-04] w = [-0.02981988 0.96489944 2.06492044] w\_new= [-0.02982429 0.96489919 2.0649251 ]

gradient= [-4.40592315e-04 -2.50275905e-05 4.65619905e-04] w = [-0.02982429 0.96489919 2.0649251 ] w\_new= [-0.02982869 0.96489894 2.06492976]

gradient= [-4.39949695e-04 -2.49946094e-05 4.64944305e-04] w = [-0.02982869 0.96489894 2.06492976] w\_new= [-0.02983309 0.96489869 2.06493441]

gradient= [-4.39308015e-04 -2.49616711e-05 4.64269686e-04] w = [-0.02983309 0.96489869 2.06493441] w\_new= [-0.02983749 0.96489844 2.06493905]

gradient= [-4.38667271e-04 -2.49287755e-05 4.63596047e-04] w = [-0.02983749 0.96489844 2.06493905] w\_new= [-0.02984187 0.96489819 2.06494368]

gradient= [-4.38027463e-04 -2.48959226e-05 4.62923386e-04] w = [-0.02984187 0.96489819 2.06494368] w\_new= [-0.02984625 0.96489794 2.06494831]

gradient= [-4.37388590e-04 -2.48631124e-05 4.62251703e-04] w = [-0.02984625 0.96489794 2.06494831] w\_new= [-0.02985063 0.96489769 2.06495294]

gradient= [-4.36750651e-04 -2.48303447e-05 4.61580995e-04] w = [-0.02985063 0.96489769 2.06495294] w\_new= [-0.029855 0.96489744 2.06495755]

gradient= [-4.36113643e-04 -2.47976196e-05 4.60911262e-04] w = [-0.029855 0.96489744 2.06495755] w\_new= [-0.02985936 0.9648972 2.06496216]

gradient= [-4.35477565e-04 -2.47649369e-05 4.60242502e-04] w = [-0.02985936 0.9648972 2.06496216] w\_new= [-0.02986371 0.96489695 2.06496676]

gradient= [-4.34842417e-04 -2.47322966e-05 4.59574713e-04] w = [-0.02986371 0.96489695 2.06496676] w\_new= [-0.02986806 0.9648967 2.06497136]

gradient= [-4.34208196e-04 -2.46996987e-05 4.58907895e-04] w = [-0.02986806 0.9648967 2.06497136] w\_new= [-0.0298724 0.96489645 2.06497595]

gradient= [-4.33574902e-04 -2.46671432e-05 4.58242045e-04] w = [-0.0298724 0.96489645 2.06497595] w\_new= [-0.02987674 0.96489621 2.06498053]

gradient= [-4.32942532e-04 -2.46346298e-05 4.57577162e-04] w = [-0.02987674 0.96489621 2.06498053] w\_new= [-0.02988107 0.96489596 2.06498511]

gradient= [-4.32311087e-04 -2.46021587e-05 4.56913246e-04] w = [-0.02988107 0.96489596 2.06498511] w\_new= [-0.02988539 0.96489571 2.06498968]

gradient= [-4.31680564e-04 -2.45697297e-05 4.56250293e-04] w = [-0.02988539 0.96489571 2.06498968] w\_new= [-0.02988971 0.96489547 2.06499424]

gradient= [-4.31050961e-04 -2.45373428e-05 4.55588304e-04] w = [-0.02988971 0.96489547 2.06499424] w\_new= [-0.02989402 0.96489522 2.06499879]

gradient= [-4.30422279e-04 -2.45049979e-05 4.54927277e-04] w = [-0.02989402 0.96489522 2.06499879] w\_new= [-0.02989832 0.96489498 2.06500334]

gradient= [-4.29794514e-04 -2.44726951e-05 4.54267209e-04] w = [-0.02989832 0.96489498 2.06500334] w\_new= [-0.02990262 0.96489473 2.06500789]

gradient= [-4.29167667e-04 -2.44404341e-05 4.53608101e-04] w = [-0.02990262 0.96489473 2.06500789] w\_new= [-0.02990691 0.96489449 2.06501242]

gradient= [-4.28541735e-04 -2.44082150e-05 4.52949950e-04] w = [-0.02990691 0.96489449 2.06501242] w\_new= [-0.0299112 0.96489424 2.06501695]

gradient= [-4.27916718e-04 -2.43760378e-05 4.52292755e-04] w = [-0.0299112 0.96489424 2.06501695] w\_new= [-0.02991548 0.964894 2.06502147]

gradient= [-4.27292613e-04 -2.43439023e-05 4.51636515e-04] w = [-0.02991548 0.964894 2.06502147] w\_new= [-0.02991975 0.96489376 2.06502599]

gradient= [-4.26669420e-04 -2.43118086e-05 4.50981228e-04] w = [-0.02991975 0.96489376 2.06502599] w\_new= [-0.02992402 0.96489351 2.0650305 ]

gradient= [-4.26047137e-04 -2.42797565e-05 4.50326893e-04] w = [-0.02992402 0.96489351 2.0650305 ] w\_new= [-0.02992828 0.96489327 2.065035 ]

gradient= [-4.25425763e-04 -2.42477460e-05 4.49673509e-04] w = [-0.02992828 0.96489327 2.065035 ] w\_new= [-0.02993253 0.96489303 2.0650395 ]

gradient= [-4.24805297e-04 -2.42157771e-05 4.49021074e-04] w = [-0.02993253 0.96489303 2.0650395 ] w\_new= [-0.02993678 0.96489279 2.06504399]

gradient= [-4.24185737e-04 -2.41838496e-05 4.48369586e-04] w = [-0.02993678 0.96489279 2.06504399] w\_new= [-0.02994102 0.96489255 2.06504847]

gradient= [-4.23567081e-04 -2.41519637e-05 4.47719045e-04] w = [-0.02994102 0.96489255 2.06504847] w\_new= [-0.02994526 0.9648923 2.06505295]

gradient= [-4.22949330e-04 -2.41201191e-05 4.47069449e-04] w = [-0.02994526 0.9648923 2.06505295] w\_new= [-0.02994949 0.96489206 2.06505742]

gradient= [-4.22332480e-04 -2.40883159e-05 4.46420796e-04] w = [-0.02994949 0.96489206 2.06505742] w\_new= [-0.02995371 0.96489182 2.06506189]

gradient= [-4.21716532e-04 -2.40565539e-05 4.45773086e-04] w = [-0.02995371 0.96489182 2.06506189] w\_new= [-0.02995793 0.96489158 2.06506634]

gradient= [-4.21101483e-04 -2.40248333e-05 4.45126316e-04] w = [-0.02995793 0.96489158 2.06506634] w\_new= [-0.02996214 0.96489134 2.0650708 ]

gradient= [-4.20487333e-04 -2.39931538e-05 4.44480486e-04] w = [-0.02996214 0.96489134 2.0650708 ] w\_new= [-0.02996634 0.9648911 2.06507524]

gradient= [-4.19874079e-04 -2.39615154e-05 4.43835595e-04] w = [-0.02996634 0.9648911 2.06507524] w\_new= [-0.02997054 0.96489086 2.06507968]

gradient= [-4.19261721e-04 -2.39299181e-05 4.43191640e-04] w = [-0.02997054 0.96489086 2.06507968] w\_new= [-0.02997473 0.96489062 2.06508411]

gradient= [-4.18650258e-04 -2.38983619e-05 4.42548620e-04] w = [-0.02997473 0.96489062 2.06508411] w\_new= [-0.02997892 0.96489038 2.06508854]

gradient= [-4.18039688e-04 -2.38668466e-05 4.41906534e-04] w = [-0.02997892 0.96489038 2.06508854] w\_new= [-0.0299831 0.96489014 2.06509296]

gradient= [-4.17430009e-04 -2.38353722e-05 4.41265381e-04] w = [-0.0299831 0.96489014 2.06509296] w\_new= [-0.02998727 0.96488991 2.06509737]

gradient= [-4.16821221e-04 -2.38039388e-05 4.40625160e-04] w = [-0.02998727 0.96488991 2.06509737] w\_new= [-0.02999144 0.96488967 2.06510177]

gradient= [-4.16213322e-04 -2.37725461e-05 4.39985868e-04] w = [-0.02999144 0.96488967 2.06510177] w\_new= [-0.0299956 0.96488943 2.06510617]

gradient= [-4.15606311e-04 -2.37411942e-05 4.39347505e-04] w = [-0.0299956 0.96488943 2.06510617] w\_new= [-0.02999976 0.96488919 2.06511057]

gradient= [-4.15000186e-04 -2.37098831e-05 4.38710069e-04] w = [-0.02999976 0.96488919 2.06511057] w\_new= [-0.03000391 0.96488896 2.06511495]

gradient= [-4.14394947e-04 -2.36786126e-05 4.38073559e-04] w = [-0.03000391 0.96488896 2.06511495] w\_new= [-0.03000805 0.96488872 2.06511934]

gradient= [-4.13790591e-04 -2.36473827e-05 4.37437974e-04] w = [-0.03000805 0.96488872 2.06511934] w\_new= [-0.03001219 0.96488848 2.06512371]

gradient= [-4.13187119e-04 -2.36161934e-05 4.36803312e-04] w = [-0.03001219 0.96488848 2.06512371] w\_new= [-0.03001632 0.96488825 2.06512808]

gradient= [-4.12584527e-04 -2.35850446e-05 4.36169572e-04] w = [-0.03001632 0.96488825 2.06512808] w\_new= [-0.03002045 0.96488801 2.06513244]

gradient= [-4.11982816e-04 -2.35539362e-05 4.35536752e-04] w = [-0.03002045 0.96488801 2.06513244] w\_new= [-0.03002457 0.96488777 2.0651368 ]

gradient= [-4.11381983e-04 -2.35228683e-05 4.34904852e-04] w = [-0.03002457 0.96488777 2.0651368 ] w\_new= [-0.03002868 0.96488754 2.06514114]

gradient= [-4.10782028e-04 -2.34918407e-05 4.34273869e-04] w = [-0.03002868 0.96488754 2.06514114] w\_new= [-0.03003279 0.9648873 2.06514549]

gradient= [-4.10182949e-04 -2.34608534e-05 4.33643803e-04] w = [-0.03003279 0.9648873 2.06514549] w\_new= [-0.03003689 0.96488707 2.06514982]

gradient= [-4.09584745e-04 -2.34299064e-05 4.33014652e-04] w = [-0.03003689 0.96488707 2.06514982] w\_new= [-0.03004099 0.96488684 2.06515415]

gradient= [-4.08987415e-04 -2.33989995e-05 4.32386415e-04] w = [-0.03004099 0.96488684 2.06515415] w\_new= [-0.03004508 0.9648866 2.06515848]

gradient= [-4.08390957e-04 -2.33681328e-05 4.31759090e-04] w = [-0.03004508 0.9648866 2.06515848] w\_new= [-0.03004916 0.96488637 2.06516279]

gradient= [-4.07795370e-04 -2.33373063e-05 4.31132677e-04] w = [-0.03004916 0.96488637 2.06516279] w\_new= [-0.03005324 0.96488613 2.06516711]

gradient= [-4.07200653e-04 -2.33065197e-05 4.30507173e-04] w = [-0.03005324 0.96488613 2.06516711] w\_new= [-0.03005731 0.9648859 2.06517141]

gradient= [-4.06606805e-04 -2.32757732e-05 4.29882578e-04] w = [-0.03005731 0.9648859 2.06517141] w\_new= [-0.03006138 0.96488567 2.06517571]

gradient= [-4.06013824e-04 -2.32450666e-05 4.29258890e-04] w = [-0.03006138 0.96488567 2.06517571] w\_new= [-0.03006544 0.96488544 2.06518 ]

gradient= [-4.05421708e-04 -2.32143999e-05 4.28636108e-04] w = [-0.03006544 0.96488544 2.06518 ] w\_new= [-0.03006949 0.9648852 2.06518429]

gradient= [-4.04830458e-04 -2.31837730e-05 4.28014231e-04] w = [-0.03006949 0.9648852 2.06518429] w\_new= [-0.03007354 0.96488497 2.06518857]

gradient= [-4.04240071e-04 -2.31531859e-05 4.27393257e-04] w = [-0.03007354 0.96488497 2.06518857] w\_new= [-0.03007758 0.96488474 2.06519284]

gradient= [-4.03650546e-04 -2.31226386e-05 4.26773185e-04] w = [-0.03007758 0.96488474 2.06519284] w\_new= [-0.03008162 0.96488451 2.06519711]

gradient= [-4.03061882e-04 -2.30921310e-05 4.26154013e-04] w = [-0.03008162 0.96488451 2.06519711] w\_new= [-0.03008565 0.96488428 2.06520137]

gradient= [-4.02474078e-04 -2.30616630e-05 4.25535741e-04] w = [-0.03008565 0.96488428 2.06520137] w\_new= [-0.03008968 0.96488405 2.06520563]

gradient= [-4.01887132e-04 -2.30312346e-05 4.24918367e-04] w = [-0.03008968 0.96488405 2.06520563] w\_new= [-0.03009369 0.96488382 2.06520988]

gradient= [-4.01301043e-04 -2.30008457e-05 4.24301889e-04] w = [-0.03009369 0.96488382 2.06520988] w\_new= [-0.03009771 0.96488359 2.06521412]

gradient= [-4.00715811e-04 -2.29704963e-05 4.23686307e-04] w = [-0.03009771 0.96488359 2.06521412] w\_new= [-0.03010172 0.96488336 2.06521836]

gradient= [-4.00131433e-04 -2.29401864e-05 4.23071619e-04] w = [-0.03010172 0.96488336 2.06521836] w\_new= [-0.03010572 0.96488313 2.06522259]

gradient= [-3.99547908e-04 -2.29099158e-05 4.22457824e-04] w = [-0.03010572 0.96488313 2.06522259] w\_new= [-0.03010971 0.9648829 2.06522681]

gradient= [-3.98965235e-04 -2.28796846e-05 4.21844920e-04] w = [-0.03010971 0.9648829 2.06522681] w\_new= [-0.0301137 0.96488267 2.06523103]

gradient= [-3.98383414e-04 -2.28494927e-05 4.21232906e-04] w = [-0.0301137 0.96488267 2.06523103] w\_new= [-0.03011769 0.96488244 2.06523524]

gradient= [-3.97802442e-04 -2.28193400e-05 4.20621782e-04] w = [-0.03011769 0.96488244 2.06523524] w\_new= [-0.03012166 0.96488221 2.06523945]

gradient= [-3.97222318e-04 -2.27892265e-05 4.20011545e-04] w = [-0.03012166 0.96488221 2.06523945] w\_new= [-0.03012564 0.96488199 2.06524365]

gradient= [-3.96643042e-04 -2.27591521e-05 4.19402194e-04] w = [-0.03012564 0.96488199 2.06524365] w\_new= [-0.0301296 0.96488176 2.06524784]

gradient= [-3.96064611e-04 -2.27291168e-05 4.18793728e-04] w = [-0.0301296 0.96488176 2.06524784] w\_new= [-0.03013356 0.96488153 2.06525203]

gradient= [-3.95487025e-04 -2.26991206e-05 4.18186146e-04] w = [-0.03013356 0.96488153 2.06525203] w\_new= [-0.03013752 0.9648813 2.06525621]

gradient= [-3.94910283e-04 -2.26691633e-05 4.17579446e-04] w = [-0.03013752 0.9648813 2.06525621] w\_new= [-0.03014147 0.96488108 2.06526039]

gradient= [-3.94334383e-04 -2.26392450e-05 4.16973628e-04] w = [-0.03014147 0.96488108 2.06526039] w\_new= [-0.03014541 0.96488085 2.06526456]

gradient= [-3.93759324e-04 -2.26093656e-05 4.16368690e-04] w = [-0.03014541 0.96488085 2.06526456] w\_new= [-0.03014935 0.96488063 2.06526872]

gradient= [-3.93185105e-04 -2.25795250e-05 4.15764630e-04] w = [-0.03014935 0.96488063 2.06526872] w\_new= [-0.03015328 0.9648804 2.06527288]

gradient= [-3.92611724e-04 -2.25497232e-05 4.15161447e-04] w = [-0.03015328 0.9648804 2.06527288] w\_new= [-0.03015721 0.96488017 2.06527703]

gradient= [-3.92039180e-04 -2.25199601e-05 4.14559140e-04] w = [-0.03015721 0.96488017 2.06527703] w\_new= [-0.03016113 0.96487995 2.06528118]

gradient= [-3.91467473e-04 -2.24902357e-05 4.13957709e-04] w = [-0.03016113 0.96487995 2.06528118] w\_new= [-0.03016504 0.96487972 2.06528532]

gradient= [-3.9089660e-04 -2.2460550e-05 4.1335715e-04] w = [-0.03016504 0.96487972 2.06528532] w\_new= [-0.03016895 0.9648795 2.06528945]

gradient= [-3.90326561e-04 -2.24309028e-05 4.12757464e-04] w = [-0.03016895 0.9648795 2.06528945] w\_new= [-0.03017285 0.96487927 2.06529358]

gradient= [-3.89757355e-04 -2.24012942e-05 4.12158649e-04] w = [-0.03017285 0.96487927 2.06529358] w\_new= [-0.03017675 0.96487905 2.0652977 ]

gradient= [-3.89188979e-04 -2.23717241e-05 4.11560703e-04] w = [-0.03017675 0.96487905 2.0652977 ] w\_new= [-0.03018064 0.96487883 2.06530182]

gradient= [-3.88621434e-04 -2.23421924e-05 4.10963626e-04] w = [-0.03018064 0.96487883 2.06530182] w\_new= [-0.03018453 0.9648786 2.06530592]

gradient= [-3.88054717e-04 -2.23126992e-05 4.10367416e-04] w = [-0.03018453 0.9648786 2.06530592] w\_new= [-0.03018841 0.96487838 2.06531003]

gradient= [-3.87488828e-04 -2.22832442e-05 4.09772072e-04] w = [-0.03018841 0.96487838 2.06531003] w\_new= [-0.03019228 0.96487816 2.06531413]

gradient= [-3.86923765e-04 -2.22538276e-05 4.09177593e-04] w = [-0.03019228 0.96487816 2.06531413] w\_new= [-0.03019615 0.96487794 2.06531822]

gradient= [-3.86359528e-04 -2.22244492e-05 4.08583977e-04] w = [-0.03019615 0.96487794 2.06531822] w\_new= [-0.03020002 0.96487771 2.0653223 ]

gradient= [-3.85796114e-04 -2.21951090e-05 4.07991223e-04] w = [-0.03020002 0.96487771 2.0653223 ] w\_new= [-0.03020387 0.96487749 2.06532638]

gradient= [-3.85233523e-04 -2.21658070e-05 4.07399330e-04] w = [-0.03020387 0.96487749 2.06532638] w\_new= [-0.03020773 0.96487727 2.06533046]

gradient= [-3.84671754e-04 -2.21365430e-05 4.06808297e-04] w = [-0.03020773 0.96487727 2.06533046] w\_new= [-0.03021157 0.96487705 2.06533453]

gradient= [-3.84110804e-04 -2.21073171e-05 4.06218122e-04] w = [-0.03021157 0.96487705 2.06533453] w\_new= [-0.03021541 0.96487683 2.06533859]

gradient= [-3.83550674e-04 -2.20781292e-05 4.05628804e-04] w = [-0.03021541 0.96487683 2.06533859] w\_new= [-0.03021925 0.96487661 2.06534264]

gradient= [-3.82991362e-04 -2.20489793e-05 4.05040341e-04] w = [-0.03021925 0.96487661 2.06534264] w\_new= [-0.03022308 0.96487639 2.06534669]

gradient= [-3.82432867e-04 -2.20198673e-05 4.04452734e-04] w = [-0.03022308 0.96487639 2.06534669] w\_new= [-0.0302269 0.96487617 2.06535074]

gradient= [-3.81875187e-04 -2.19907931e-05 4.03865980e-04] w = [-0.0302269 0.96487617 2.06535074] w\_new= [-0.03023072 0.96487595 2.06535478]

gradient= [-3.81318321e-04 -2.19617567e-05 4.03280078e-04] w = [-0.03023072 0.96487595 2.06535478] w\_new= [-0.03023454 0.96487573 2.06535881]

gradient= [-3.80762268e-04 -2.19327581e-05 4.02695027e-04] w = [-0.03023454 0.96487573 2.06535881] w\_new= [-0.03023834 0.96487551 2.06536284]

gradient= [-3.80207028e-04 -2.19037972e-05 4.02110825e-04] w = [-0.03023834 0.96487551 2.06536284] w\_new= [-0.03024215 0.96487529 2.06536686]

gradient= [-3.79652598e-04 -2.18748740e-05 4.01527472e-04] w = [-0.03024215 0.96487529 2.06536686] w\_new= [-0.03024594 0.96487507 2.06537087]

gradient= [-3.79098978e-04 -2.18459884e-05 4.00944966e-04] w = [-0.03024594 0.96487507 2.06537087] w\_new= [-0.03024973 0.96487485 2.06537488]

gradient= [-3.78546166e-04 -2.18171404e-05 4.00363306e-04] w = [-0.03024973 0.96487485 2.06537488] w\_new= [-0.03025352 0.96487463 2.06537889]

gradient= [-3.77994161e-04 -2.17883298e-05 3.99782491e-04] w = [-0.03025352 0.96487463 2.06537889] w\_new= [-0.0302573 0.96487441 2.06538288]

gradient= [-3.77442962e-04 -2.17595568e-05 3.99202519e-04] w = [-0.0302573 0.96487441 2.06538288] w\_new= [-0.03026107 0.9648742 2.06538688]

gradient= [-3.76892568e-04 -2.17308212e-05 3.98623389e-04] w = [-0.03026107 0.9648742 2.06538688] w\_new= [-0.03026484 0.96487398 2.06539086]

gradient= [-3.76342978e-04 -2.17021229e-05 3.98045101e-04] w = [-0.03026484 0.96487398 2.06539086] w\_new= [-0.03026861 0.96487376 2.06539484]

gradient= [-3.75794190e-04 -2.16734620e-05 3.97467652e-04] w = [-0.03026861 0.96487376 2.06539484] w\_new= [-0.03027236 0.96487355 2.06539882]

gradient= [-3.75246204e-04 -2.16448383e-05 3.96891042e-04] w = [-0.03027236 0.96487355 2.06539882] w\_new= [-0.03027612 0.96487333 2.06540279]

gradient= [-3.74699018e-04 -2.16162519e-05 3.96315269e-04] w = [-0.03027612 0.96487333 2.06540279] w\_new= [-0.03027986 0.96487311 2.06540675]

gradient= [-3.74152630e-04 -2.15877027e-05 3.95740333e-04] w = [-0.03027986 0.96487311 2.06540675] w\_new= [-0.0302836 0.9648729 2.06541071]

gradient= [-3.73607041e-04 -2.15591906e-05 3.95166231e-04] w = [-0.0302836 0.9648729 2.06541071] w\_new= [-0.03028734 0.96487268 2.06541466]

gradient= [-3.73062248e-04 -2.15307157e-05 3.94592963e-04] w = [-0.03028734 0.96487268 2.06541466] w\_new= [-0.03029107 0.96487247 2.06541861]

gradient= [-3.72518250e-04 -2.15022777e-05 3.94020528e-04] w = [-0.03029107 0.96487247 2.06541861] w\_new= [-0.0302948 0.96487225 2.06542255]

gradient= [-3.71975047e-04 -2.14738768e-05 3.93448924e-04] w = [-0.0302948 0.96487225 2.06542255] w\_new= [-0.03029852 0.96487204 2.06542648]

gradient= [-3.71432637e-04 -2.14455128e-05 3.92878149e-04] w = [-0.03029852 0.96487204 2.06542648] w\_new= [-0.03030223 0.96487182 2.06543041]

gradient= [-3.70891019e-04 -2.14171857e-05 3.92308204e-04] w = [-0.03030223 0.96487182 2.06543041] w\_new= [-0.03030594 0.96487161 2.06543433]

gradient= [-3.70350191e-04 -2.13888954e-05 3.91739087e-04] w = [-0.03030594 0.96487161 2.06543433] w\_new= [-0.03030964 0.96487139 2.06543825]

gradient= [-3.69810154e-04 -2.13606420e-05 3.91170795e-04] w = [-0.03030964 0.96487139 2.06543825] w\_new= [-0.03031334 0.96487118 2.06544216]

gradient= [-3.69270904e-04 -2.13324253e-05 3.90603330e-04] w = [-0.03031334 0.96487118 2.06544216] w\_new= [-0.03031703 0.96487097 2.06544607]

gradient= [-3.68732442e-04 -2.13042453e-05 3.90036688e-04] w = [-0.03031703 0.96487097 2.06544607] w\_new= [-0.03032072 0.96487075 2.06544997]

gradient= [-3.68194767e-04 -2.12761020e-05 3.89470869e-04] w = [-0.03032072 0.96487075 2.06544997] w\_new= [-0.0303244 0.96487054 2.06545386]

gradient= [-3.67657876e-04 -2.12479953e-05 3.88905872e-04] w = [-0.0303244 0.96487054 2.06545386] w\_new= [-0.03032808 0.96487033 2.06545775]

gradient= [-3.67121769e-04 -2.12199252e-05 3.88341695e-04] w = [-0.03032808 0.96487033 2.06545775] w\_new= [-0.03033175 0.96487012 2.06546163]

gradient= [-3.66586445e-04 -2.11918917e-05 3.87778337e-04] w = [-0.03033175 0.96487012 2.06546163] w\_new= [-0.03033542 0.9648699 2.06546551]

gradient= [-3.66051903e-04 -2.11638946e-05 3.87215798e-04] w = [-0.03033542 0.9648699 2.06546551] w\_new= [-0.03033908 0.96486969 2.06546938]

gradient= [-3.65518141e-04 -2.11359339e-05 3.86654075e-04] w = [-0.03033908 0.96486969 2.06546938] w\_new= [-0.03034273 0.96486948 2.06547325]

gradient= [-3.64985158e-04 -2.11080096e-05 3.86093168e-04] w = [-0.03034273 0.96486948 2.06547325] w\_new= [-0.03034638 0.96486927 2.06547711]

gradient= [-3.64452954e-04 -2.10801217e-05 3.85533076e-04] w = [-0.03034638 0.96486927 2.06547711] w\_new= [-0.03035003 0.96486906 2.06548097]

gradient= [-3.63921527e-04 -2.10522700e-05 3.84973797e-04] w = [-0.03035003 0.96486906 2.06548097] w\_new= [-0.03035367 0.96486885 2.06548482]

gradient= [-3.63390875e-04 -2.10244546e-05 3.84415330e-04] w = [-0.03035367 0.96486885 2.06548482] w\_new= [-0.0303573 0.96486864 2.06548866]

gradient= [-3.62860998e-04 -2.09966754e-05 3.83857674e-04] w = [-0.0303573 0.96486864 2.06548866] w\_new= [-0.03036093 0.96486843 2.0654925 ]

gradient= [-3.62331895e-04 -2.09689323e-05 3.83300827e-04] w = [-0.03036093 0.96486843 2.0654925 ] w\_new= [-0.03036455 0.96486822 2.06549633]

gradient= [-3.61803564e-04 -2.09412254e-05 3.82744790e-04] w = [-0.03036455 0.96486822 2.06549633] w\_new= [-0.03036817 0.96486801 2.06550016]

gradient= [-3.61276005e-04 -2.09135545e-05 3.82189560e-04] w = [-0.03036817 0.96486801 2.06550016] w\_new= [-0.03037178 0.9648678 2.06550398]

gradient= [-3.60749216e-04 -2.08859196e-05 3.81635136e-04] w = [-0.03037178 0.9648678 2.06550398] w\_new= [-0.03037539 0.96486759 2.0655078 ]

gradient= [-3.60223196e-04 -2.08583207e-05 3.81081517e-04] w = [-0.03037539 0.96486759 2.0655078 ] w\_new= [-0.03037899 0.96486738 2.06551161]

gradient= [-3.59697944e-04 -2.08307578e-05 3.80528702e-04] w = [-0.03037899 0.96486738 2.06551161] w\_new= [-0.03038259 0.96486718 2.06551541]

gradient= [-3.59173459e-04 -2.08032307e-05 3.79976689e-04] w = [-0.03038259 0.96486718 2.06551541] w\_new= [-0.03038618 0.96486697 2.06551921]

gradient= [-3.58649739e-04 -2.07757394e-05 3.79425479e-04] w = [-0.03038618 0.96486697 2.06551921] w\_new= [-0.03038977 0.96486676 2.06552301]

gradient= [-3.58126785e-04 -2.07482839e-05 3.78875068e-04] w = [-0.03038977 0.96486676 2.06552301] w\_new= [-0.03039335 0.96486655 2.0655268 ]

gradient= [-3.57604593e-04 -2.07208642e-05 3.78325457e-04] w = [-0.03039335 0.96486655 2.0655268 ] w\_new= [-0.03039693 0.96486634 2.06553058]

gradient= [-3.57083164e-04 -2.06934801e-05 3.77776644e-04] w = [-0.03039693 0.96486634 2.06553058] w\_new= [-0.0304005 0.96486614 2.06553436]

gradient= [-3.56562497e-04 -2.06661317e-05 3.77228628e-04] w = [-0.0304005 0.96486614 2.06553436] w\_new= [-0.03040406 0.96486593 2.06553813]

gradient= [-3.56042589e-04 -2.06388189e-05 3.76681408e-04] w = [-0.03040406 0.96486593 2.06553813] w\_new= [-0.03040762 0.96486572 2.0655419 ]

gradient= [-3.55523441e-04 -2.06115417e-05 3.76134982e-04] w = [-0.03040762 0.96486572 2.0655419 ] w\_new= [-0.03041118 0.96486552 2.06554566]

gradient= [-3.5500505e-04 -2.0584300e-05 3.7558935e-04] w = [-0.03041118 0.96486552 2.06554566] w\_new= [-0.03041473 0.96486531 2.06554941]

gradient= [-3.54487416e-04 -2.05570937e-05 3.75044510e-04] w = [-0.03041473 0.96486531 2.06554941] w\_new= [-0.03041827 0.96486511 2.06555317]

gradient= [-3.53970538e-04 -2.05299229e-05 3.74500461e-04] w = [-0.03041827 0.96486511 2.06555317] w\_new= [-0.03042181 0.9648649 2.06555691]

gradient= [-3.53454415e-04 -2.05027874e-05 3.73957202e-04] w = [-0.03042181 0.9648649 2.06555691] w\_new= [-0.03042535 0.9648647 2.06556065]

gradient= [-3.52939045e-04 -2.04756873e-05 3.73414732e-04] w = [-0.03042535 0.9648647 2.06556065] w\_new= [-0.03042888 0.96486449 2.06556438]

gradient= [-3.52424427e-04 -2.04486224e-05 3.72873050e-04] w = [-0.03042888 0.96486449 2.06556438] w\_new= [-0.0304324 0.96486429 2.06556811]

gradient= [-3.51910561e-04 -2.04215928e-05 3.72332154e-04] w = [-0.0304324 0.96486429 2.06556811] w\_new= [-0.03043592 0.96486408 2.06557184]

gradient= [-3.51397445e-04 -2.03945984e-05 3.71792043e-04] w = [-0.03043592 0.96486408 2.06557184] w\_new= [-0.03043943 0.96486388 2.06557555]

gradient= [-3.50885078e-04 -2.03676391e-05 3.71252717e-04] w = [-0.03043943 0.96486388 2.06557555] w\_new= [-0.03044294 0.96486368 2.06557927]

gradient= [-3.50373459e-04 -2.03407150e-05 3.70714174e-04] w = [-0.03044294 0.96486368 2.06557927] w\_new= [-0.03044645 0.96486347 2.06558297]

gradient= [-3.49862587e-04 -2.03138259e-05 3.70176413e-04] w = [-0.03044645 0.96486347 2.06558297] w\_new= [-0.03044994 0.96486327 2.06558668]

gradient= [-3.49352461e-04 -2.02869718e-05 3.69639433e-04] w = [-0.03044994 0.96486327 2.06558668] w\_new= [-0.03045344 0.96486307 2.06559037]

gradient= [-3.48843079e-04 -2.02601527e-05 3.69103232e-04] w = [-0.03045344 0.96486307 2.06559037] w\_new= [-0.03045693 0.96486286 2.06559406]

gradient= [-3.48334441e-04 -2.02333685e-05 3.68567810e-04] w = [-0.03045693 0.96486286 2.06559406] w\_new= [-0.03046041 0.96486266 2.06559775]

gradient= [-3.47826546e-04 -2.02066192e-05 3.68033165e-04] w = [-0.03046041 0.96486266 2.06559775] w\_new= [-0.03046389 0.96486246 2.06560143]

gradient= [-3.47319392e-04 -2.01799047e-05 3.67499297e-04] w = [-0.03046389 0.96486246 2.06560143] w\_new= [-0.03046736 0.96486226 2.0656051 ]

gradient= [-3.46812979e-04 -2.01532250e-05 3.66966204e-04] w = [-0.03046736 0.96486226 2.0656051 ] w\_new= [-0.03047083 0.96486206 2.06560877]

gradient= [-3.46307305e-04 -2.01265801e-05 3.66433885e-04] w = [-0.03047083 0.96486206 2.06560877] w\_new= [-0.03047429 0.96486185 2.06561244]

gradient= [-3.45802369e-04 -2.00999699e-05 3.65902338e-04] w = [-0.03047429 0.96486185 2.06561244] w\_new= [-0.03047775 0.96486165 2.0656161 ]

gradient= [-3.45298170e-04 -2.00733943e-05 3.65371564e-04] w = [-0.03047775 0.96486165 2.0656161 ] w\_new= [-0.0304812 0.96486145 2.06561975]

gradient= [-3.44794707e-04 -2.00468534e-05 3.64841560e-04] w = [-0.0304812 0.96486145 2.06561975] w\_new= [-0.03048465 0.96486125 2.0656234 ]

gradient= [-3.44291979e-04 -2.00203470e-05 3.64312326e-04] w = [-0.03048465 0.96486125 2.0656234 ] w\_new= [-0.03048809 0.96486105 2.06562704]

gradient= [-3.43789985e-04 -1.99938751e-05 3.63783860e-04] w = [-0.03048809 0.96486105 2.06562704] w\_new= [-0.03049153 0.96486085 2.06563068]

gradient= [-3.43288724e-04 -1.99674377e-05 3.63256162e-04] w = [-0.03049153 0.96486085 2.06563068] w\_new= [-0.03049497 0.96486065 2.06563431]

gradient= [-3.42788194e-04 -1.99410348e-05 3.62729229e-04] w = [-0.03049497 0.96486065 2.06563431] w\_new= [-0.03049839 0.96486045 2.06563794]

gradient= [-3.42288396e-04 -1.99146662e-05 3.62203062e-04] w = [-0.03049839 0.96486045 2.06563794] w\_new= [-0.03050182 0.96486025 2.06564156]

gradient= [-3.41789327e-04 -1.98883320e-05 3.61677659e-04] w = [-0.03050182 0.96486025 2.06564156] w\_new= [-0.03050523 0.96486006 2.06564518]

gradient= [-3.41290986e-04 -1.98620321e-05 3.61153018e-04] w = [-0.03050523 0.96486006 2.06564518] w\_new= [-0.03050865 0.96485986 2.06564879]

gradient= [-3.40793373e-04 -1.98357665e-05 3.60629140e-04] w = [-0.03050865 0.96485986 2.06564879] w\_new= [-0.03051205 0.96485966 2.0656524 ]

gradient= [-3.40296486e-04 -1.98095351e-05 3.60106022e-04] w = [-0.03051205 0.96485966 2.0656524 ] w\_new= [-0.03051546 0.96485946 2.065656 ]

gradient= [-3.39800325e-04 -1.97833378e-05 3.59583663e-04] w = [-0.03051546 0.96485946 2.065656 ] w\_new= [-0.03051886 0.96485926 2.06565959]

gradient= [-3.39304888e-04 -1.97571747e-05 3.59062063e-04] w = [-0.03051886 0.96485926 2.06565959] w\_new= [-0.03052225 0.96485906 2.06566318]

gradient= [-3.38810174e-04 -1.97310457e-05 3.58541220e-04] w = [-0.03052225 0.96485906 2.06566318] w\_new= [-0.03052564 0.96485887 2.06566677]

gradient= [-3.38316183e-04 -1.97049507e-05 3.58021133e-04] w = [-0.03052564 0.96485887 2.06566677] w\_new= [-0.03052902 0.96485867 2.06567035]

gradient= [-3.37822912e-04 -1.96788897e-05 3.57501802e-04] w = [-0.03052902 0.96485867 2.06567035] w\_new= [-0.0305324 0.96485847 2.06567392]

gradient= [-3.37330362e-04 -1.96528627e-05 3.56983224e-04] w = [-0.0305324 0.96485847 2.06567392] w\_new= [-0.03053577 0.96485828 2.06567749]

gradient= [-3.36838530e-04 -1.96268696e-05 3.56465400e-04] w = [-0.03053577 0.96485828 2.06567749] w\_new= [-0.03053914 0.96485808 2.06568106]

gradient= [-3.36347417e-04 -1.96009103e-05 3.55948327e-04] w = [-0.03053914 0.96485808 2.06568106] w\_new= [-0.0305425 0.96485788 2.06568462]

gradient= [-3.35857020e-04 -1.95749849e-05 3.55432005e-04] w = [-0.0305425 0.96485788 2.06568462] w\_new= [-0.03054586 0.96485769 2.06568817]

gradient= [-3.35367340e-04 -1.95490933e-05 3.54916433e-04] w = [-0.03054586 0.96485769 2.06568817] w\_new= [-0.03054922 0.96485749 2.06569172]

gradient= [-3.34878374e-04 -1.95232353e-05 3.54401609e-04] w = [-0.03054922 0.96485749 2.06569172] w\_new= [-0.03055256 0.9648573 2.06569527]

gradient= [-3.34390122e-04 -1.94974111e-05 3.53887533e-04] w = [-0.03055256 0.9648573 2.06569527] w\_new= [-0.03055591 0.9648571 2.0656988 ]

gradient= [-3.33902582e-04 -1.94716206e-05 3.53374203e-04] w = [-0.03055591 0.9648571 2.0656988 ] w\_new= [-0.03055925 0.96485691 2.06570234]

gradient= [-3.33415754e-04 -1.94458636e-05 3.52861618e-04] w = [-0.03055925 0.96485691 2.06570234] w\_new= [-0.03056258 0.96485671 2.06570587]

gradient= [-3.32929637e-04 -1.94201402e-05 3.52349778e-04] w = [-0.03056258 0.96485671 2.06570587] w\_new= [-0.03056591 0.96485652 2.06570939]

gradient= [-3.32444230e-04 -1.93944504e-05 3.51838680e-04] w = [-0.03056591 0.96485652 2.06570939] w\_new= [-0.03056924 0.96485633 2.06571291]

gradient= [-3.31959531e-04 -1.93687940e-05 3.51328325e-04] w = [-0.03056924 0.96485633 2.06571291] w\_new= [-0.03057255 0.96485613 2.06571642]

gradient= [-3.31475539e-04 -1.93431711e-05 3.50818710e-04] w = [-0.03057255 0.96485613 2.06571642] w\_new= [-0.03057587 0.96485594 2.06571993]

gradient= [-3.30992254e-04 -1.93175815e-05 3.50309836e-04] w = [-0.03057587 0.96485594 2.06571993] w\_new= [-0.03057918 0.96485575 2.06572343]

gradient= [-3.30509675e-04 -1.92920253e-05 3.49801700e-04] w = [-0.03057918 0.96485575 2.06572343] w\_new= [-0.03058248 0.96485555 2.06572693]

gradient= [-3.30027800e-04 -1.92665024e-05 3.49294302e-04] w = [-0.03058248 0.96485555 2.06572693] w\_new= [-0.03058578 0.96485536 2.06573042]

gradient= [-3.29546628e-04 -1.92410128e-05 3.48787641e-04] w = [-0.03058578 0.96485536 2.06573042] w\_new= [-0.03058908 0.96485517 2.06573391]

gradient= [-3.29066159e-04 -1.92155564e-05 3.48281715e-04] w = [-0.03058908 0.96485517 2.06573391] w\_new= [-0.03059237 0.96485498 2.0657374 ]

gradient= [-3.28586391e-04 -1.91901332e-05 3.47776524e-04] w = [-0.03059237 0.96485498 2.0657374 ] w\_new= [-0.03059566 0.96485478 2.06574087]

gradient= [-3.28107323e-04 -1.91647431e-05 3.47272066e-04] w = [-0.03059566 0.96485478 2.06574087] w\_new= [-0.03059894 0.96485459 2.06574435]

gradient= [-3.27628955e-04 -1.91393861e-05 3.46768341e-04] w = [-0.03059894 0.96485459 2.06574435] w\_new= [-0.03060221 0.9648544 2.06574781]

gradient= [-3.27151285e-04 -1.91140622e-05 3.46265347e-04] w = [-0.03060221 0.9648544 2.06574781] w\_new= [-0.03060549 0.96485421 2.06575128]

gradient= [-3.26674312e-04 -1.90887713e-05 3.45763083e-04] w = [-0.03060549 0.96485421 2.06575128] w\_new= [-0.03060875 0.96485402 2.06575473]

gradient= [-3.26198035e-04 -1.90635133e-05 3.45261548e-04] w = [-0.03060875 0.96485402 2.06575473] w\_new= [-0.03061201 0.96485383 2.06575819]

gradient= [-3.25722454e-04 -1.90382883e-05 3.44760742e-04] w = [-0.03061201 0.96485383 2.06575819] w\_new= [-0.03061527 0.96485364 2.06576163]

gradient= [-3.25247566e-04 -1.90130962e-05 3.44260663e-04] w = [-0.03061527 0.96485364 2.06576163] w\_new= [-0.03061852 0.96485345 2.06576508]

gradient= [-3.24773372e-04 -1.89879369e-05 3.43761309e-04] w = [-0.03061852 0.96485345 2.06576508] w\_new= [-0.03062177 0.96485326 2.06576851]

gradient= [-3.24299870e-04 -1.89628104e-05 3.43262681e-04] w = [-0.03062177 0.96485326 2.06576851] w\_new= [-0.03062501 0.96485307 2.06577195]

gradient= [-3.23827060e-04 -1.89377166e-05 3.42764776e-04] w = [-0.03062501 0.96485307 2.06577195] w\_new= [-0.03062825 0.96485288 2.06577537]

gradient= [-3.23354939e-04 -1.89126556e-05 3.42267594e-04] w = [-0.03062825 0.96485288 2.06577537] w\_new= [-0.03063149 0.96485269 2.0657788 ]

gradient= [-3.22883507e-04 -1.88876273e-05 3.41771135e-04] w = [-0.03063149 0.96485269 2.0657788 ] w\_new= [-0.03063472 0.9648525 2.06578221]

gradient= [-3.22412764e-04 -1.88626315e-05 3.41275395e-04] w = [-0.03063472 0.9648525 2.06578221] w\_new= [-0.03063794 0.96485231 2.06578563]

gradient= [-3.21942707e-04 -1.88376684e-05 3.40780376e-04] w = [-0.03063794 0.96485231 2.06578563] w\_new= [-0.03064116 0.96485212 2.06578904]

gradient= [-3.21473337e-04 -1.88127378e-05 3.40286075e-04] w = [-0.03064116 0.96485212 2.06578904] w\_new= [-0.03064437 0.96485194 2.06579244]

gradient= [-3.21004652e-04 -1.87878398e-05 3.39792492e-04] w = [-0.03064437 0.96485194 2.06579244] w\_new= [-0.03064758 0.96485175 2.06579584]

gradient= [-3.20536651e-04 -1.87629742e-05 3.39299625e-04] w = [-0.03064758 0.96485175 2.06579584] w\_new= [-0.03065079 0.96485156 2.06579923]

gradient= [-3.20069333e-04 -1.87381410e-05 3.38807474e-04] w = [-0.03065079 0.96485156 2.06579923] w\_new= [-0.03065399 0.96485137 2.06580262]

gradient= [-3.19602697e-04 -1.87133402e-05 3.38316037e-04] w = [-0.03065399 0.96485137 2.06580262] w\_new= [-0.03065719 0.96485119 2.065806 ]

gradient= [-3.19136742e-04 -1.86885718e-05 3.37825314e-04] w = [-0.03065719 0.96485119 2.065806 ] w\_new= [-0.03066038 0.964851 2.06580938]

gradient= [-3.18671468e-04 -1.86638356e-05 3.37335303e-04] w = [-0.03066038 0.964851 2.06580938] w\_new= [-0.03066356 0.96485081 2.06581275]

gradient= [-3.18206872e-04 -1.86391317e-05 3.36846004e-04] w = [-0.03066356 0.96485081 2.06581275] w\_new= [-0.03066675 0.96485063 2.06581612]

gradient= [-3.17742955e-04 -1.86144600e-05 3.36357415e-04] w = [-0.03066675 0.96485063 2.06581612] w\_new= [-0.03066992 0.96485044 2.06581948]

gradient= [-3.17279715e-04 -1.85898205e-05 3.35869535e-04] w = [-0.03066992 0.96485044 2.06581948] w\_new= [-0.0306731 0.96485025 2.06582284]

gradient= [-3.16817150e-04 -1.85652132e-05 3.35382364e-04] w = [-0.0306731 0.96485025 2.06582284] w\_new= [-0.03067626 0.96485007 2.0658262 ]

gradient= [-3.16355261e-04 -1.85406379e-05 3.34895899e-04] w = [-0.03067626 0.96485007 2.0658262 ] w\_new= [-0.03067943 0.96484988 2.06582955]

gradient= [-3.15894046e-04 -1.85160947e-05 3.34410141e-04] w = [-0.03067943 0.96484988 2.06582955] w\_new= [-0.03068259 0.9648497 2.06583289]

gradient= [-3.15433505e-04 -1.84915835e-05 3.33925088e-04] w = [-0.03068259 0.9648497 2.06583289] w\_new= [-0.03068574 0.96484951 2.06583623]

gradient= [-3.14973635e-04 -1.84671042e-05 3.33440739e-04] w = [-0.03068574 0.96484951 2.06583623] w\_new= [-0.03068889 0.96484933 2.06583956]

gradient= [-3.14514437e-04 -1.84426569e-05 3.32957094e-04] w = [-0.03068889 0.96484933 2.06583956] w\_new= [-0.03069204 0.96484914 2.06584289]

gradient= [-3.14055909e-04 -1.84182415e-05 3.32474150e-04] w = [-0.03069204 0.96484914 2.06584289] w\_new= [-0.03069518 0.96484896 2.06584622]

gradient= [-3.13598050e-04 -1.83938579e-05 3.31991908e-04] w = [-0.03069518 0.96484896 2.06584622] w\_new= [-0.03069831 0.96484878 2.06584954]

gradient= [-3.13140859e-04 -1.83695061e-05 3.31510366e-04] w = [-0.03069831 0.96484878 2.06584954] w\_new= [-0.03070144 0.96484859 2.06585285]

gradient= [-3.12684336e-04 -1.83451861e-05 3.31029522e-04] w = [-0.03070144 0.96484859 2.06585285] w\_new= [-0.03070457 0.96484841 2.06585616]

gradient= [-3.12228479e-04 -1.83208979e-05 3.30549377e-04] w = [-0.03070457 0.96484841 2.06585616] w\_new= [-0.03070769 0.96484822 2.06585947]

gradient= [-3.11773287e-04 -1.82966413e-05 3.30069929e-04] w = [-0.03070769 0.96484822 2.06585947] w\_new= [-0.03071081 0.96484804 2.06586277]

gradient= [-3.11318760e-04 -1.82724163e-05 3.29591176e-04] w = [-0.03071081 0.96484804 2.06586277] w\_new= [-0.03071392 0.96484786 2.06586607]

gradient= [-3.10864896e-04 -1.82482230e-05 3.29113119e-04] w = [-0.03071392 0.96484786 2.06586607] w\_new= [-0.03071703 0.96484768 2.06586936]

gradient= [-3.10411695e-04 -1.82240612e-05 3.28635756e-04] w = [-0.03071703 0.96484768 2.06586936] w\_new= [-0.03072014 0.96484749 2.06587264]

gradient= [-3.09959155e-04 -1.81999309e-05 3.28159086e-04] w = [-0.03072014 0.96484749 2.06587264] w\_new= [-0.03072324 0.96484731 2.06587592]

gradient= [-3.09507275e-04 -1.81758321e-05 3.27683107e-04] w = [-0.03072324 0.96484731 2.06587592] w\_new= [-0.03072633 0.96484713 2.0658792 ]

gradient= [-3.09056055e-04 -1.81517648e-05 3.27207820e-04] w = [-0.03072633 0.96484713 2.0658792 ] w\_new= [-0.03072942 0.96484695 2.06588247]

gradient= [-3.08605494e-04 -1.81277288e-05 3.26733222e-04] w = [-0.03072942 0.96484695 2.06588247] w\_new= [-0.03073251 0.96484677 2.06588574]

gradient= [-3.08155590e-04 -1.81037243e-05 3.26259314e-04] w = [-0.03073251 0.96484677 2.06588574] w\_new= [-0.03073559 0.96484659 2.065889 ]

gradient= [-3.07706342e-04 -1.80797510e-05 3.25786093e-04] w = [-0.03073559 0.96484659 2.065889 ] w\_new= [-0.03073867 0.96484641 2.06589226]

gradient= [-3.07257751e-04 -1.80558090e-05 3.25313560e-04] w = [-0.03073867 0.96484641 2.06589226] w\_new= [-0.03074174 0.96484623 2.06589551]

gradient= [-3.06809814e-04 -1.80318983e-05 3.24841712e-04] w = [-0.03074174 0.96484623 2.06589551] w\_new= [-0.03074481 0.96484605 2.06589876]

gradient= [-3.06362531e-04 -1.80080188e-05 3.24370550e-04] w = [-0.03074481 0.96484605 2.06589876] w\_new= [-0.03074787 0.96484586 2.06590201]

gradient= [-3.05915900e-04 -1.79841704e-05 3.23900071e-04] w = [-0.03074787 0.96484586 2.06590201] w\_new= [-0.03075093 0.96484569 2.06590525]

gradient= [-3.05469922e-04 -1.79603531e-05 3.23430275e-04] w = [-0.03075093 0.96484569 2.06590525] w\_new= [-0.03075398 0.96484551 2.06590848]

gradient= [-3.05024594e-04 -1.79365669e-05 3.22961161e-04] w = [-0.03075398 0.96484551 2.06590848] w\_new= [-0.03075704 0.96484533 2.06591171]

gradient= [-3.04579917e-04 -1.79128118e-05 3.22492728e-04] w = [-0.03075704 0.96484533 2.06591171] w\_new= [-0.03076008 0.96484515 2.06591493]

gradient= [-3.04135888e-04 -1.78890877e-05 3.22024976e-04] w = [-0.03076008 0.96484515 2.06591493] w\_new= [-0.03076312 0.96484497 2.06591815]

gradient= [-3.03692507e-04 -1.78653945e-05 3.21557902e-04] w = [-0.03076312 0.96484497 2.06591815] w\_new= [-0.03076616 0.96484479 2.06592137]

gradient= [-3.03249774e-04 -1.78417322e-05 3.21091506e-04] w = [-0.03076616 0.96484479 2.06592137] w\_new= [-0.03076919 0.96484461 2.06592458]

gradient= [-3.02807686e-04 -1.78181009e-05 3.20625787e-04] w = [-0.03076919 0.96484461 2.06592458] w\_new= [-0.03077222 0.96484443 2.06592779]

gradient= [-3.02366244e-04 -1.77945003e-05 3.20160744e-04] w = [-0.03077222 0.96484443 2.06592779] w\_new= [-0.03077524 0.96484425 2.06593099]

gradient= [-3.01925446e-04 -1.77709306e-05 3.19696377e-04] w = [-0.03077524 0.96484425 2.06593099] w\_new= [-0.03077826 0.96484408 2.06593419]

gradient= [-3.01485291e-04 -1.77473916e-05 3.19232683e-04] w = [-0.03077826 0.96484408 2.06593419] w\_new= [-0.03078128 0.9648439 2.06593738]

gradient= [-3.01045779e-04 -1.77238834e-05 3.18769662e-04] w = [-0.03078128 0.9648439 2.06593738] w\_new= [-0.03078429 0.96484372 2.06594057]

gradient= [-3.00606908e-04 -1.77004058e-05 3.18307314e-04] w = [-0.03078429 0.96484372 2.06594057] w\_new= [-0.03078729 0.96484355 2.06594375]

gradient= [-3.00168678e-04 -1.76769589e-05 3.17845637e-04] w = [-0.03078729 0.96484355 2.06594375] w\_new= [-0.0307903 0.96484337 2.06594693]

gradient= [-2.99731087e-04 -1.76535426e-05 3.17384630e-04] w = [-0.0307903 0.96484337 2.06594693] w\_new= [-0.03079329 0.96484319 2.0659501 ]

gradient= [-2.99294135e-04 -1.76301569e-05 3.16924292e-04] w = [-0.03079329 0.96484319 2.0659501 ] w\_new= [-0.03079629 0.96484302 2.06595327]

gradient= [-2.98857820e-04 -1.76068017e-05 3.16464622e-04] w = [-0.03079629 0.96484302 2.06595327] w\_new= [-0.03079927 0.96484284 2.06595643]

gradient= [-2.98422143e-04 -1.75834769e-05 3.16005620e-04] w = [-0.03079927 0.96484284 2.06595643] w\_new= [-0.03080226 0.96484266 2.06595959]

gradient= [-2.97987101e-04 -1.75601826e-05 3.15547283e-04] w = [-0.03080226 0.96484266 2.06595959] w\_new= [-0.03080524 0.96484249 2.06596275]

gradient= [-2.97552694e-04 -1.75369188e-05 3.15089612e-04] w = [-0.03080524 0.96484249 2.06596275] w\_new= [-0.03080821 0.96484231 2.0659659 ]

gradient= [-2.97118921e-04 -1.75136853e-05 3.14632606e-04] w = [-0.03080821 0.96484231 2.0659659 ] w\_new= [-0.03081119 0.96484214 2.06596905]

gradient= [-2.96685781e-04 -1.74904821e-05 3.14176263e-04] w = [-0.03081119 0.96484214 2.06596905] w\_new= [-0.03081415 0.96484196 2.06597219]

gradient= [-2.96253273e-04 -1.74673092e-05 3.13720582e-04] w = [-0.03081415 0.96484196 2.06597219] w\_new= [-0.03081711 0.96484179 2.06597533]

gradient= [-2.95821396e-04 -1.74441666e-05 3.13265563e-04] w = [-0.03081711 0.96484179 2.06597533] w\_new= [-0.03082007 0.96484161 2.06597846]

gradient= [-2.95390149e-04 -1.74210542e-05 3.12811204e-04] w = [-0.03082007 0.96484161 2.06597846] w\_new= [-0.03082303 0.96484144 2.06598159]

gradient= [-2.94959532e-04 -1.73979720e-05 3.12357504e-04] w = [-0.03082303 0.96484144 2.06598159] w\_new= [-0.03082598 0.96484127 2.06598471]

gradient= [-2.94529544e-04 -1.73749199e-05 3.11904464e-04] w = [-0.03082598 0.96484127 2.06598471] w\_new= [-0.03082892 0.96484109 2.06598783]

gradient= [-2.94100182e-04 -1.73518979e-05 3.11452080e-04] w = [-0.03082892 0.96484109 2.06598783] w\_new= [-0.03083186 0.96484092 2.06599094]

gradient= [-2.93671448e-04 -1.73289059e-05 3.11000354e-04] w = [-0.03083186 0.96484092 2.06599094] w\_new= [-0.0308348 0.96484075 2.06599405]

gradient= [-2.93243339e-04 -1.73059440e-05 3.10549283e-04] w = [-0.0308348 0.96484075 2.06599405] w\_new= [-0.03083773 0.96484057 2.06599716]

gradient= [-2.92815855e-04 -1.72830121e-05 3.10098867e-04] w = [-0.03083773 0.96484057 2.06599716] w\_new= [-0.03084066 0.9648404 2.06600026]

gradient= [-2.92388994e-04 -1.72601101e-05 3.09649105e-04] w = [-0.03084066 0.9648404 2.06600026] w\_new= [-0.03084358 0.96484023 2.06600336]

gradient= [-2.91962757e-04 -1.72372380e-05 3.09199995e-04] w = [-0.03084358 0.96484023 2.06600336] w\_new= [-0.0308465 0.96484005 2.06600645]

gradient= [-2.91537142e-04 -1.72143958e-05 3.08751538e-04] w = [-0.0308465 0.96484005 2.06600645] w\_new= [-0.03084942 0.96483988 2.06600954]

gradient= [-2.91112147e-04 -1.71915834e-05 3.08303731e-04] w = [-0.03084942 0.96483988 2.06600954] w\_new= [-0.03085233 0.96483971 2.06601262]

gradient= [-2.90687773e-04 -1.71688008e-05 3.07856574e-04] w = [-0.03085233 0.96483971 2.06601262] w\_new= [-0.03085524 0.96483954 2.0660157 ]

gradient= [-2.90264019e-04 -1.71460480e-05 3.07410067e-04] w = [-0.03085524 0.96483954 2.0660157 ] w\_new= [-0.03085814 0.96483937 2.06601877]

gradient= [-2.89840882e-04 -1.71233249e-05 3.06964207e-04] w = [-0.03085814 0.96483937 2.06601877] w\_new= [-0.03086104 0.9648392 2.06602184]

gradient= [-2.89418363e-04 -1.71006314e-05 3.06518995e-04] w = [-0.03086104 0.9648392 2.06602184] w\_new= [-0.03086393 0.96483902 2.06602491]

gradient= [-2.88996461e-04 -1.70779676e-05 3.06074429e-04] w = [-0.03086393 0.96483902 2.06602491] w\_new= [-0.03086682 0.96483885 2.06602797]

gradient= [-2.88575174e-04 -1.70553334e-05 3.05630508e-04] w = [-0.03086682 0.96483885 2.06602797] w\_new= [-0.03086971 0.96483868 2.06603102]

gradient= [-2.88154503e-04 -1.70327288e-05 3.05187231e-04] w = [-0.03086971 0.96483868 2.06603102] w\_new= [-0.03087259 0.96483851 2.06603408]

gradient= [-2.87734445e-04 -1.70101537e-05 3.04744598e-04] w = [-0.03087259 0.96483851 2.06603408] w\_new= [-0.03087547 0.96483834 2.06603712]

gradient= [-2.87315000e-04 -1.69876080e-05 3.04302608e-04] w = [-0.03087547 0.96483834 2.06603712] w\_new= [-0.03087834 0.96483817 2.06604017]

gradient= [-2.86896167e-04 -1.69650918e-05 3.03861259e-04] w = [-0.03087834 0.96483817 2.06604017] w\_new= [-0.03088121 0.964838 2.06604321]

gradient= [-2.86477945e-04 -1.69426051e-05 3.03420550e-04] w = [-0.03088121 0.964838 2.06604321] w\_new= [-0.03088407 0.96483783 2.06604624]

gradient= [-2.86060334e-04 -1.69201477e-05 3.02980481e-04] w = [-0.03088407 0.96483783 2.06604624] w\_new= [-0.03088693 0.96483766 2.06604927]

gradient= [-2.85643332e-04 -1.68977196e-05 3.02541051e-04] w = [-0.03088693 0.96483766 2.06604927] w\_new= [-0.03088979 0.9648375 2.06605229]

gradient= [-2.85226938e-04 -1.68753208e-05 3.02102259e-04] w = [-0.03088979 0.9648375 2.06605229] w\_new= [-0.03089264 0.96483733 2.06605532]

gradient= [-2.84811153e-04 -1.68529513e-05 3.01664104e-04] w = [-0.03089264 0.96483733 2.06605532] w\_new= [-0.03089549 0.96483716 2.06605833]

gradient= [-2.84395973e-04 -1.68306110e-05 3.01226584e-04] w = [-0.03089549 0.96483716 2.06605833] w\_new= [-0.03089834 0.96483699 2.06606134]

gradient= [-2.83981400e-04 -1.68082999e-05 3.00789700e-04] w = [-0.03089834 0.96483699 2.06606134] w\_new= [-0.03090117 0.96483682 2.06606435]

gradient= [-2.83567432e-04 -1.67860180e-05 3.00353450e-04] w = [-0.03090117 0.96483682 2.06606435] w\_new= [-0.03090401 0.96483665 2.06606736]

gradient= [-2.83154068e-04 -1.67637651e-05 2.99917833e-04] w = [-0.03090401 0.96483665 2.06606736] w\_new= [-0.03090684 0.96483649 2.06607036]

gradient= [-2.82741307e-04 -1.67415414e-05 2.99482848e-04] w = [-0.03090684 0.96483649 2.06607036] w\_new= [-0.03090967 0.96483632 2.06607335]

gradient= [-2.82329148e-04 -1.67193466e-05 2.99048495e-04] w = [-0.03090967 0.96483632 2.06607335] w\_new= [-0.03091249 0.96483615 2.06607634]

gradient= [-2.81917591e-04 -1.66971809e-05 2.98614772e-04] w = [-0.03091249 0.96483615 2.06607634] w\_new= [-0.03091531 0.96483599 2.06607933]

gradient= [-2.81506634e-04 -1.66750441e-05 2.98181678e-04] w = [-0.03091531 0.96483599 2.06607933] w\_new= [-0.03091813 0.96483582 2.06608231]

gradient= [-2.81096277e-04 -1.66529363e-05 2.97749213e-04] w = [-0.03091813 0.96483582 2.06608231] w\_new= [-0.03092094 0.96483565 2.06608529]

gradient= [-2.80686519e-04 -1.66308573e-05 2.97317376e-04] w = [-0.03092094 0.96483565 2.06608529] w\_new= [-0.03092374 0.96483549 2.06608826]

gradient= [-2.80277359e-04 -1.66088072e-05 2.96886166e-04] w = [-0.03092374 0.96483549 2.06608826] w\_new= [-0.03092655 0.96483532 2.06609123]

gradient= [-2.79868796e-04 -1.65867859e-05 2.96455581e-04] w = [-0.03092655 0.96483532 2.06609123] w\_new= [-0.03092935 0.96483515 2.06609419]

gradient= [-2.79460829e-04 -1.65647933e-05 2.96025622e-04] w = [-0.03092935 0.96483515 2.06609419] w\_new= [-0.03093214 0.96483499 2.06609715]

gradient= [-2.79053457e-04 -1.65428295e-05 2.95596286e-04] w = [-0.03093214 0.96483499 2.06609715] w\_new= [-0.03093493 0.96483482 2.06610011]

gradient= [-2.78646679e-04 -1.65208945e-05 2.95167574e-04] w = [-0.03093493 0.96483482 2.06610011] w\_new= [-0.03093772 0.96483466 2.06610306]

gradient= [-2.78240496e-04 -1.64989880e-05 2.94739484e-04] w = [-0.03093772 0.96483466 2.06610306] w\_new= [-0.0309405 0.96483449 2.06610601]

gradient= [-2.77834905e-04 -1.64771102e-05 2.94312015e-04] w = [-0.0309405 0.96483449 2.06610601] w\_new= [-0.03094328 0.96483433 2.06610895]

gradient= [-2.77429906e-04 -1.64552610e-05 2.93885167e-04] w = [-0.03094328 0.96483433 2.06610895] w\_new= [-0.03094605 0.96483416 2.06611189]

gradient= [-2.77025497e-04 -1.64334404e-05 2.93458938e-04] w = [-0.03094605 0.96483416 2.06611189] w\_new= [-0.03094882 0.964834 2.06611482]

gradient= [-2.76621679e-04 -1.64116483e-05 2.93033328e-04] w = [-0.03094882 0.964834 2.06611482] w\_new= [-0.03095159 0.96483383 2.06611775]

gradient= [-2.76218450e-04 -1.63898846e-05 2.92608335e-04] w = [-0.03095159 0.96483383 2.06611775] w\_new= [-0.03095435 0.96483367 2.06612068]

gradient= [-2.75815810e-04 -1.63681494e-05 2.92183959e-04] w = [-0.03095435 0.96483367 2.06612068] w\_new= [-0.03095711 0.96483351 2.0661236 ]

gradient= [-2.75413757e-04 -1.63464426e-05 2.91760200e-04] w = [-0.03095711 0.96483351 2.0661236 ] w\_new= [-0.03095986 0.96483334 2.06612652]

gradient= [-2.75012291e-04 -1.63247642e-05 2.91337055e-04] w = [-0.03095986 0.96483334 2.06612652] w\_new= [-0.03096261 0.96483318 2.06612943]

gradient= [-2.74611410e-04 -1.63031141e-05 2.90914524e-04] w = [-0.03096261 0.96483318 2.06612943] w\_new= [-0.03096536 0.96483302 2.06613234]

gradient= [-2.74211115e-04 -1.62814923e-05 2.90492607e-04] w = [-0.03096536 0.96483302 2.06613234] w\_new= [-0.0309681 0.96483285 2.06613525]

gradient= [-2.73811403e-04 -1.62598988e-05 2.90071302e-04] w = [-0.0309681 0.96483285 2.06613525] w\_new= [-0.03097084 0.96483269 2.06613815]

gradient= [-2.73412275e-04 -1.62383335e-05 2.89650608e-04] w = [-0.03097084 0.96483269 2.06613815] w\_new= [-0.03097357 0.96483253 2.06614105]

gradient= [-2.73013729e-04 -1.62167963e-05 2.89230526e-04] w = [-0.03097357 0.96483253 2.06614105] w\_new= [-0.0309763 0.96483237 2.06614394]

gradient= [-2.72615765e-04 -1.61952874e-05 2.88811052e-04] w = [-0.0309763 0.96483237 2.06614394] w\_new= [-0.03097903 0.96483221 2.06614683]

gradient= [-2.72218381e-04 -1.61738065e-05 2.88392188e-04] w = [-0.03097903 0.96483221 2.06614683] w\_new= [-0.03098175 0.96483204 2.06614971]

gradient= [-2.71821578e-04 -1.61523538e-05 2.87973931e-04] w = [-0.03098175 0.96483204 2.06614971] w\_new= [-0.03098447 0.96483188 2.06615259]

gradient= [-2.71425353e-04 -1.61309290e-05 2.87556282e-04] w = [-0.03098447 0.96483188 2.06615259] w\_new= [-0.03098719 0.96483172 2.06615546]

gradient= [-2.71029706e-04 -1.61095323e-05 2.87139238e-04] w = [-0.03098719 0.96483172 2.06615546] w\_new= [-0.0309899 0.96483156 2.06615834]

gradient= [-2.70634637e-04 -1.60881636e-05 2.86722800e-04] w = [-0.0309899 0.96483156 2.06615834] w\_new= [-0.0309926 0.9648314 2.0661612]

gradient= [-2.70240144e-04 -1.60668228e-05 2.86306967e-04] w = [-0.0309926 0.9648314 2.0661612] w\_new= [-0.0309953 0.96483124 2.06616407]

gradient= [-2.69846227e-04 -1.60455099e-05 2.85891737e-04] w = [-0.0309953 0.96483124 2.06616407] w\_new= [-0.030998 0.96483108 2.06616693]

gradient= [-2.69452884e-04 -1.60242249e-05 2.85477109e-04] w = [-0.030998 0.96483108 2.06616693] w\_new= [-0.0310007 0.96483092 2.06616978]

gradient= [-2.69060116e-04 -1.60029677e-05 2.85063083e-04] w = [-0.0310007 0.96483092 2.06616978] w\_new= [-0.03100339 0.96483076 2.06617263]

gradient= [-2.68667920e-04 -1.59817383e-05 2.84649658e-04] w = [-0.03100339 0.96483076 2.06617263] w\_new= [-0.03100607 0.9648306 2.06617548]

gradient= [-2.68276297e-04 -1.59605366e-05 2.84236834e-04] w = [-0.03100607 0.9648306 2.06617548] w\_new= [-0.03100876 0.96483044 2.06617832]

gradient= [-2.67885245e-04 -1.59393627e-05 2.83824608e-04] w = [-0.03100876 0.96483044 2.06617832] w\_new= [-0.03101144 0.96483028 2.06618116]

gradient= [-2.67494764e-04 -1.59182164e-05 2.83412980e-04] w = [-0.03101144 0.96483028 2.06618116] w\_new= [-0.03101411 0.96483012 2.06618399]

gradient= [-2.67104852e-04 -1.58970978e-05 2.83001950e-04] w = [-0.03101411 0.96483012 2.06618399] w\_new= [-0.03101678 0.96482996 2.06618682]

gradient= [-2.66715510e-04 -1.58760069e-05 2.82591517e-04] w = [-0.03101678 0.96482996 2.06618682] w\_new= [-0.03101945 0.9648298 2.06618965]

gradient= [-2.66326735e-04 -1.58549435e-05 2.82181679e-04] w = [-0.03101945 0.9648298 2.06618965] w\_new= [-0.03102211 0.96482964 2.06619247]

gradient= [-2.65938528e-04 -1.58339076e-05 2.81772436e-04] w = [-0.03102211 0.96482964 2.06619247] w\_new= [-0.03102477 0.96482948 2.06619529]

gradient= [-2.65550887e-04 -1.58128993e-05 2.81363787e-04] w = [-0.03102477 0.96482948 2.06619529] w\_new= [-0.03102743 0.96482933 2.0661981 ]

gradient= [-2.65163812e-04 -1.57919184e-05 2.80955731e-04] w = [-0.03102743 0.96482933 2.0661981 ] w\_new= [-0.03103008 0.96482917 2.06620091]

gradient= [-2.64777302e-04 -1.57709650e-05 2.80548267e-04] w = [-0.03103008 0.96482917 2.06620091] w\_new= [-0.03103273 0.96482901 2.06620372]

gradient= [-2.64391355e-04 -1.57500390e-05 2.80141394e-04] w = [-0.03103273 0.96482901 2.06620372] w\_new= [-0.03103537 0.96482885 2.06620652]

gradient= [-2.64005972e-04 -1.57291403e-05 2.79735112e-04] w = [-0.03103537 0.96482885 2.06620652] w\_new= [-0.03103801 0.9648287 2.06620931]

gradient= [-2.63621151e-04 -1.57082690e-05 2.79329420e-04] w = [-0.03103801 0.9648287 2.06620931] w\_new= [-0.03104065 0.96482854 2.06621211]

gradient= [-2.63236891e-04 -1.56874250e-05 2.78924316e-04] w = [-0.03104065 0.96482854 2.06621211] w\_new= [-0.03104328 0.96482838 2.0662149 ]

gradient= [-2.62853192e-04 -1.56666082e-05 2.78519801e-04] w = [-0.03104328 0.96482838 2.0662149 ] w\_new= [-0.03104591 0.96482823 2.06621768]

gradient= [-2.62470053e-04 -1.56458187e-05 2.78115872e-04] w = [-0.03104591 0.96482823 2.06621768] w\_new= [-0.03104853 0.96482807 2.06622046]

gradient= [-2.62087473e-04 -1.56250563e-05 2.77712529e-04] w = [-0.03104853 0.96482807 2.06622046] w\_new= [-0.03105115 0.96482791 2.06622324]

gradient= [-2.61705451e-04 -1.56043211e-05 2.77309772e-04] w = [-0.03105115 0.96482791 2.06622324] w\_new= [-0.03105377 0.96482776 2.06622601]

gradient= [-2.61323987e-04 -1.55836131e-05 2.76907600e-04] w = [-0.03105377 0.96482776 2.06622601] w\_new= [-0.03105638 0.9648276 2.06622878]

gradient= [-2.60943079e-04 -1.55629321e-05 2.76506011e-04] w = [-0.03105638 0.9648276 2.06622878] w\_new= [-0.03105899 0.96482745 2.06623155]

gradient= [-2.60562727e-04 -1.55422782e-05 2.76105005e-04] w = [-0.03105899 0.96482745 2.06623155] w\_new= [-0.0310616 0.96482729 2.06623431]

gradient= [-2.60182929e-04 -1.55216513e-05 2.75704581e-04] w = [-0.0310616 0.96482729 2.06623431] w\_new= [-0.0310642 0.96482713 2.06623707]

gradient= [-2.59803686e-04 -1.55010514e-05 2.75304738e-04] w = [-0.0310642 0.96482713 2.06623707] w\_new= [-0.0310668 0.96482698 2.06623982]

gradient= [-2.59424996e-04 -1.54804784e-05 2.74905475e-04] w = [-0.0310668 0.96482698 2.06623982] w\_new= [-0.03106939 0.96482682 2.06624257]

gradient= [-2.59046859e-04 -1.54599323e-05 2.74506791e-04] w = [-0.03106939 0.96482682 2.06624257] w\_new= [-0.03107198 0.96482667 2.06624531]

gradient= [-2.58669274e-04 -1.54394132e-05 2.74108687e-04] w = [-0.03107198 0.96482667 2.06624531] w\_new= [-0.03107457 0.96482652 2.06624805]

gradient= [-2.58292239e-04 -1.54189208e-05 2.73711160e-04] w = [-0.03107457 0.96482652 2.06624805] w\_new= [-0.03107715 0.96482636 2.06625079]

gradient= [-2.57915754e-04 -1.53984553e-05 2.73314210e-04] w = [-0.03107715 0.96482636 2.06625079] w\_new= [-0.03107973 0.96482621 2.06625352]

gradient= [-2.57539819e-04 -1.53780166e-05 2.72917836e-04] w = [-0.03107973 0.96482621 2.06625352] w\_new= [-0.03108231 0.96482605 2.06625625]

gradient= [-2.57164432e-04 -1.53576046e-05 2.72522037e-04] w = [-0.03108231 0.96482605 2.06625625] w\_new= [-0.03108488 0.9648259 2.06625898]

gradient= [-2.56789593e-04 -1.53372193e-05 2.72126812e-04] w = [-0.03108488 0.9648259 2.06625898] w\_new= [-0.03108745 0.96482575 2.0662617 ]

gradient= [-2.56415301e-04 -1.53168606e-05 2.71732162e-04] w = [-0.03108745 0.96482575 2.0662617 ] w\_new= [-0.03109001 0.96482559 2.06626442]

gradient= [-2.56041555e-04 -1.52965286e-05 2.71338083e-04] w = [-0.03109001 0.96482559 2.06626442] w\_new= [-0.03109257 0.96482544 2.06626713]

gradient= [-2.55668354e-04 -1.52762233e-05 2.70944577e-04] w = [-0.03109257 0.96482544 2.06626713] w\_new= [-0.03109513 0.96482529 2.06626984]

gradient= [-2.55295698e-04 -1.52559445e-05 2.70551642e-04] w = [-0.03109513 0.96482529 2.06626984] w\_new= [-0.03109768 0.96482514 2.06627255]

gradient= [-2.54923585e-04 -1.52356922e-05 2.70159277e-04] w = [-0.03109768 0.96482514 2.06627255] w\_new= [-0.03110023 0.96482498 2.06627525]

gradient= [-2.54552015e-04 -1.52154664e-05 2.69767481e-04] w = [-0.03110023 0.96482498 2.06627525] w\_new= [-0.03110278 0.96482483 2.06627795]

gradient= [-2.54180987e-04 -1.51952671e-05 2.69376254e-04] w = [-0.03110278 0.96482483 2.06627795] w\_new= [-0.03110532 0.96482468 2.06628064]

gradient= [-2.53810501e-04 -1.51750942e-05 2.68985595e-04] w = [-0.03110532 0.96482468 2.06628064] w\_new= [-0.03110786 0.96482453 2.06628333]

gradient= [-2.53440555e-04 -1.51549478e-05 2.68595503e-04] w = [-0.03110786 0.96482453 2.06628333] w\_new= [-0.03111039 0.96482438 2.06628601]

gradient= [-2.53071149e-04 -1.51348276e-05 2.68205977e-04] w = [-0.03111039 0.96482438 2.06628601] w\_new= [-0.03111292 0.96482422 2.0662887 ]

gradient= [-2.52702282e-04 -1.51147339e-05 2.67817016e-04] w = [-0.03111292 0.96482422 2.0662887 ] w\_new= [-0.03111545 0.96482407 2.06629138]

gradient= [-2.52333953e-04 -1.50946664e-05 2.67428619e-04] w = [-0.03111545 0.96482407 2.06629138] w\_new= [-0.03111797 0.96482392 2.06629405]

gradient= [-2.51966161e-04 -1.50746252e-05 2.67040787e-04] w = [-0.03111797 0.96482392 2.06629405] w\_new= [-0.03112049 0.96482377 2.06629672]

gradient= [-2.51598906e-04 -1.50546102e-05 2.66653517e-04] w = [-0.03112049 0.96482377 2.06629672] w\_new= [-0.03112301 0.96482362 2.06629939]

gradient= [-2.51232187e-04 -1.50346214e-05 2.66266809e-04] w = [-0.03112301 0.96482362 2.06629939] w\_new= [-0.03112552 0.96482347 2.06630205]

gradient= [-2.50866003e-04 -1.50146588e-05 2.65880662e-04] w = [-0.03112552 0.96482347 2.06630205] w\_new= [-0.03112803 0.96482332 2.06630471]

gradient= [-2.50500353e-04 -1.49947223e-05 2.65495075e-04] w = [-0.03112803 0.96482332 2.06630471] w\_new= [-0.03113053 0.96482317 2.06630736]

gradient= [-2.50135236e-04 -1.49748119e-05 2.65110048e-04] w = [-0.03113053 0.96482317 2.06630736] w\_new= [-0.03113303 0.96482302 2.06631001]

gradient= [-2.49770653e-04 -1.49549276e-05 2.64725580e-04] w = [-0.03113303 0.96482302 2.06631001] w\_new= [-0.03113553 0.96482287 2.06631266]

gradient= [-2.49406601e-04 -1.49350693e-05 2.64341670e-04] w = [-0.03113553 0.96482287 2.06631266] w\_new= [-0.03113803 0.96482272 2.0663153 ]

gradient= [-2.49043080e-04 -1.49152369e-05 2.63958317e-04] w = [-0.03113803 0.96482272 2.0663153 ] w\_new= [-0.03114052 0.96482257 2.06631794]

gradient= [-2.48680089e-04 -1.48954306e-05 2.63575520e-04] w = [-0.03114052 0.96482257 2.06631794] w\_new= [-0.031143 0.96482242 2.06632058]

gradient= [-2.48317628e-04 -1.48756502e-05 2.63193279e-04] w = [-0.031143 0.96482242 2.06632058] w\_new= [-0.03114549 0.96482228 2.06632321]

gradient= [-2.47955696e-04 -1.48558956e-05 2.62811592e-04] w = [-0.03114549 0.96482228 2.06632321] w\_new= [-0.03114797 0.96482213 2.06632584]

gradient= [-2.47594292e-04 -1.48361670e-05 2.62430459e-04] w = [-0.03114797 0.96482213 2.06632584] w\_new= [-0.03115044 0.96482198 2.06632846]

gradient= [-2.47233415e-04 -1.48164641e-05 2.62049879e-04] w = [-0.03115044 0.96482198 2.06632846] w\_new= [-0.03115291 0.96482183 2.06633108]

gradient= [-2.46873065e-04 -1.47967871e-05 2.61669852e-04] w = [-0.03115291 0.96482183 2.06633108] w\_new= [-0.03115538 0.96482168 2.0663337 ]

gradient= [-2.46513240e-04 -1.47771358e-05 2.61290376e-04] w = [-0.03115538 0.96482168 2.0663337 ] w\_new= [-0.03115785 0.96482153 2.06633631]

gradient= [-2.46153941e-04 -1.47575102e-05 2.60911451e-04] w = [-0.03115785 0.96482153 2.06633631] w\_new= [-0.03116031 0.96482139 2.06633892]

gradient= [-2.45795165e-04 -1.47379104e-05 2.60533075e-04] w = [-0.03116031 0.96482139 2.06633892] w\_new= [-0.03116277 0.96482124 2.06634153]

gradient= [-2.45436913e-04 -1.47183362e-05 2.60155249e-04] w = [-0.03116277 0.96482124 2.06634153] w\_new= [-0.03116522 0.96482109 2.06634413]

gradient= [-2.45079183e-04 -1.46987876e-05 2.59777971e-04] w = [-0.03116522 0.96482109 2.06634413] w\_new= [-0.03116767 0.96482095 2.06634673]

gradient= [-2.44721976e-04 -1.46792646e-05 2.59401240e-04] w = [-0.03116767 0.96482095 2.06634673] w\_new= [-0.03117012 0.9648208 2.06634932]

gradient= [-2.44365289e-04 -1.46597672e-05 2.59025057e-04] w = [-0.03117012 0.9648208 2.06634932] w\_new= [-0.03117256 0.96482065 2.06635191]

gradient= [-2.44009123e-04 -1.46402954e-05 2.58649419e-04] w = [-0.03117256 0.96482065 2.06635191] w\_new= [-0.031175 0.96482051 2.0663545 ]

gradient= [-2.43653477e-04 -1.46208490e-05 2.58274326e-04] w = [-0.031175 0.96482051 2.0663545 ] w\_new= [-0.03117744 0.96482036 2.06635708]

gradient= [-2.43298349e-04 -1.46014281e-05 2.57899777e-04] w = [-0.03117744 0.96482036 2.06635708] w\_new= [-0.03117987 0.96482021 2.06635966]

gradient= [-2.42943739e-04 -1.45820326e-05 2.57525772e-04] w = [-0.03117987 0.96482021 2.06635966] w\_new= [-0.0311823 0.96482007 2.06636224]

gradient= [-2.42589647e-04 -1.45626625e-05 2.57152310e-04] w = [-0.0311823 0.96482007 2.06636224] w\_new= [-0.03118473 0.96481992 2.06636481]

gradient= [-2.42236071e-04 -1.45433178e-05 2.56779389e-04] w = [-0.03118473 0.96481992 2.06636481] w\_new= [-0.03118715 0.96481978 2.06636738]

gradient= [-2.41883011e-04 -1.45239984e-05 2.56407010e-04] w = [-0.03118715 0.96481978 2.06636738] w\_new= [-0.03118957 0.96481963 2.06636994]

gradient= [-2.41530467e-04 -1.45047043e-05 2.56035171e-04] w = [-0.03118957 0.96481963 2.06636994] w\_new= [-0.03119199 0.96481949 2.0663725 ]

gradient= [-2.41178436e-04 -1.44854355e-05 2.55663872e-04] w = [-0.03119199 0.96481949 2.0663725 ] w\_new= [-0.0311944 0.96481934 2.06637506]

gradient= [-2.40826919e-04 -1.44661919e-05 2.55293111e-04] w = [-0.0311944 0.96481934 2.06637506] w\_new= [-0.03119681 0.9648192 2.06637761]

gradient= [-2.40475915e-04 -1.44469735e-05 2.54922888e-04] w = [-0.03119681 0.9648192 2.06637761] w\_new= [-0.03119921 0.96481905 2.06638016]

gradient= [-2.40125423e-04 -1.44277803e-05 2.54553203e-04] w = [-0.03119921 0.96481905 2.06638016] w\_new= [-0.03120161 0.96481891 2.0663827 ]

gradient= [-2.39775442e-04 -1.44086123e-05 2.54184054e-04] w = [-0.03120161 0.96481891 2.0663827 ] w\_new= [-0.03120401 0.96481876 2.06638525]

gradient= [-2.39425972e-04 -1.43894693e-05 2.53815441e-04] w = [-0.03120401 0.96481876 2.06638525] w\_new= [-0.0312064 0.96481862 2.06638778]

gradient= [-2.39077011e-04 -1.43703514e-05 2.53447363e-04] w = [-0.0312064 0.96481862 2.06638778] w\_new= [-0.03120879 0.96481848 2.06639032]

gradient= [-2.38728560e-04 -1.43512586e-05 2.53079818e-04] w = [-0.03120879 0.96481848 2.06639032] w\_new= [-0.03121118 0.96481833 2.06639285]

gradient= [-2.38380617e-04 -1.43321907e-05 2.52712807e-04] w = [-0.03121118 0.96481833 2.06639285] w\_new= [-0.03121357 0.96481819 2.06639538]

gradient= [-2.38033181e-04 -1.43131479e-05 2.52346329e-04] w = [-0.03121357 0.96481819 2.06639538] w\_new= [-0.03121595 0.96481805 2.0663979 ]

gradient= [-2.37686253e-04 -1.42941300e-05 2.51980383e-04] w = [-0.03121595 0.96481805 2.0663979 ] w\_new= [-0.03121832 0.9648179 2.06640042]

gradient= [-2.37339830e-04 -1.42751370e-05 2.51614967e-04] w = [-0.03121832 0.9648179 2.06640042] w\_new= [-0.0312207 0.96481776 2.06640294]

gradient= [-2.36993913e-04 -1.42561689e-05 2.51250082e-04] w = [-0.0312207 0.96481776 2.06640294] w\_new= [-0.03122307 0.96481762 2.06640545]

gradient= [-2.36648500e-04 -1.42372256e-05 2.50885726e-04] w = [-0.03122307 0.96481762 2.06640545] w\_new= [-0.03122543 0.96481748 2.06640796]

gradient= [-2.36303592e-04 -1.42183071e-05 2.50521899e-04] w = [-0.03122543 0.96481748 2.06640796] w\_new= [-0.0312278 0.96481733 2.06641046]

gradient= [-2.35959186e-04 -1.41994135e-05 2.50158600e-04] w = [-0.0312278 0.96481733 2.06641046] w\_new= [-0.03123016 0.96481719 2.06641296]

gradient= [-2.35615283e-04 -1.41805446e-05 2.49795827e-04] w = [-0.03123016 0.96481719 2.06641296] w\_new= [-0.03123251 0.96481705 2.06641546]

gradient= [-2.35271881e-04 -1.41617004e-05 2.49433582e-04] w = [-0.03123251 0.96481705 2.06641546] w\_new= [-0.03123486 0.96481691 2.06641796]

gradient= [-2.34928981e-04 -1.41428809e-05 2.49071862e-04] w = [-0.03123486 0.96481691 2.06641796] w\_new= [-0.03123721 0.96481677 2.06642045]

gradient= [-2.34586581e-04 -1.41240860e-05 2.48710667e-04] w = [-0.03123721 0.96481677 2.06642045] w\_new= [-0.03123956 0.96481663 2.06642293]

gradient= [-2.34244680e-04 -1.41053158e-05 2.48349996e-04] w = [-0.03123956 0.96481663 2.06642293] w\_new= [-0.0312419 0.96481648 2.06642542]

gradient= [-2.33903278e-04 -1.40865702e-05 2.47989848e-04] w = [-0.0312419 0.96481648 2.06642542] w\_new= [-0.03124424 0.96481634 2.0664279 ]

gradient= [-2.33562374e-04 -1.40678491e-05 2.47630223e-04] w = [-0.03124424 0.96481634 2.0664279 ] w\_new= [-0.03124658 0.9648162 2.06643037]

gradient= [-2.33221967e-04 -1.40491526e-05 2.47271120e-04] w = [-0.03124658 0.9648162 2.06643037] w\_new= [-0.03124891 0.96481606 2.06643285]

gradient= [-2.32882057e-04 -1.40304805e-05 2.46912537e-04] w = [-0.03124891 0.96481606 2.06643285] w\_new= [-0.03125124 0.96481592 2.06643532]

gradient= [-2.32542643e-04 -1.40118330e-05 2.46554476e-04] w = [-0.03125124 0.96481592 2.06643532] w\_new= [-0.03125356 0.96481578 2.06643778]

gradient= [-2.32203723e-04 -1.39932098e-05 2.46196933e-04] w = [-0.03125356 0.96481578 2.06643778] w\_new= [-0.03125588 0.96481564 2.06644024]

gradient= [-2.31865299e-04 -1.39746111e-05 2.45839910e-04] w = [-0.03125588 0.96481564 2.06644024] w\_new= [-0.0312582 0.9648155 2.0664427]

gradient= [-2.31527367e-04 -1.39560368e-05 2.45483404e-04] w = [-0.0312582 0.9648155 2.0664427] w\_new= [-0.03126052 0.96481536 2.06644516]

gradient= [-2.31189929e-04 -1.39374867e-05 2.45127416e-04] w = [-0.03126052 0.96481536 2.06644516] w\_new= [-0.03126283 0.96481522 2.06644761]

gradient= [-2.30852983e-04 -1.39189610e-05 2.44771944e-04] w = [-0.03126283 0.96481522 2.06644761] w\_new= [-0.03126514 0.96481508 2.06645006]

gradient= [-2.30516529e-04 -1.39004596e-05 2.44416988e-04] w = [-0.03126514 0.96481508 2.06645006] w\_new= [-0.03126744 0.96481494 2.0664525 ]

gradient= [-2.30180565e-04 -1.38819824e-05 2.44062548e-04] w = [-0.03126744 0.96481494 2.0664525 ] w\_new= [-0.03126975 0.96481481 2.06645494]

gradient= [-2.29845092e-04 -1.38635295e-05 2.43708621e-04] w = [-0.03126975 0.96481481 2.06645494] w\_new= [-0.03127204 0.96481467 2.06645738]

gradient= [-2.29510107e-04 -1.38451007e-05 2.43355208e-04] w = [-0.03127204 0.96481467 2.06645738] w\_new= [-0.03127434 0.96481453 2.06645981]

gradient= [-2.29175612e-04 -1.38266961e-05 2.43002308e-04] w = [-0.03127434 0.96481453 2.06645981] w\_new= [-0.03127663 0.96481439 2.06646224]

gradient= [-2.28841604e-04 -1.38083156e-05 2.42649920e-04] w = [-0.03127663 0.96481439 2.06646224] w\_new= [-0.03127892 0.96481425 2.06646467]

gradient= [-2.28508084e-04 -1.37899592e-05 2.42298043e-04] w = [-0.03127892 0.96481425 2.06646467] w\_new= [-0.03128121 0.96481411 2.06646709]

gradient= [-2.28175050e-04 -1.37716269e-05 2.41946677e-04] w = [-0.03128121 0.96481411 2.06646709] w\_new= [-0.03128349 0.96481398 2.06646951]

gradient= [-2.27842502e-04 -1.37533185e-05 2.41595820e-04] w = [-0.03128349 0.96481398 2.06646951] w\_new= [-0.03128577 0.96481384 2.06647193]

gradient= [-2.27510439e-04 -1.37350342e-05 2.41245473e-04] w = [-0.03128577 0.96481384 2.06647193] w\_new= [-0.03128804 0.9648137 2.06647434]

gradient= [-2.27178860e-04 -1.37167739e-05 2.40895634e-04] w = [-0.03128804 0.9648137 2.06647434] w\_new= [-0.03129031 0.96481356 2.06647675]

gradient= [-2.26847765e-04 -1.36985375e-05 2.40546303e-04] w = [-0.03129031 0.96481356 2.06647675] w\_new= [-0.03129258 0.96481343 2.06647915]

gradient= [-2.26517153e-04 -1.36803250e-05 2.40197478e-04] w = [-0.03129258 0.96481343 2.06647915] w\_new= [-0.03129485 0.96481329 2.06648155]

gradient= [-2.26187024e-04 -1.36621363e-05 2.39849160e-04] w = [-0.03129485 0.96481329 2.06648155] w\_new= [-0.03129711 0.96481315 2.06648395]

gradient= [-2.25857375e-04 -1.36439716e-05 2.39501347e-04] w = [-0.03129711 0.96481315 2.06648395] w\_new= [-0.03129937 0.96481302 2.06648635]

gradient= [-2.25528208e-04 -1.36258306e-05 2.39154039e-04] w = [-0.03129937 0.96481302 2.06648635] w\_new= [-0.03130162 0.96481288 2.06648874]

gradient= [-2.25199521e-04 -1.36077134e-05 2.38807234e-04] w = [-0.03130162 0.96481288 2.06648874] w\_new= [-0.03130387 0.96481275 2.06649113]

gradient= [-2.24871313e-04 -1.35896200e-05 2.38460933e-04] w = [-0.03130387 0.96481275 2.06649113] w\_new= [-0.03130612 0.96481261 2.06649351]

gradient= [-2.24543584e-04 -1.35715503e-05 2.38115134e-04] w = [-0.03130612 0.96481261 2.06649351] w\_new= [-0.03130837 0.96481247 2.06649589]

gradient= [-2.24216333e-04 -1.35535042e-05 2.37769837e-04] w = [-0.03130837 0.96481247 2.06649589] w\_new= [-0.03131061 0.96481234 2.06649827]

gradient= [-2.23889560e-04 -1.35354819e-05 2.37425042e-04] w = [-0.03131061 0.96481234 2.06649827] w\_new= [-0.03131285 0.9648122 2.06650065]

gradient= [-2.23563263e-04 -1.35174831e-05 2.37080746e-04] w = [-0.03131285 0.9648122 2.06650065] w\_new= [-0.03131508 0.96481207 2.06650302]

gradient= [-2.23237442e-04 -1.34995080e-05 2.36736950e-04] w = [-0.03131508 0.96481207 2.06650302] w\_new= [-0.03131732 0.96481193 2.06650538]

gradient= [-2.22912096e-04 -1.34815565e-05 2.36393652e-04] w = [-0.03131732 0.96481193 2.06650538] w\_new= [-0.03131955 0.9648118 2.06650775]

gradient= [-2.22587225e-04 -1.34636284e-05 2.36050853e-04] w = [-0.03131955 0.9648118 2.06650775] w\_new= [-0.03132177 0.96481166 2.06651011]

gradient= [-2.22262828e-04 -1.34457239e-05 2.35708551e-04] w = [-0.03132177 0.96481166 2.06651011] w\_new= [-0.03132399 0.96481153 2.06651247]

gradient= [-2.21938903e-04 -1.34278429e-05 2.35366746e-04] w = [-0.03132399 0.96481153 2.06651247] w\_new= [-0.03132621 0.96481139 2.06651482]

gradient= [-2.21615452e-04 -1.34099853e-05 2.35025437e-04] w = [-0.03132621 0.96481139 2.06651482] w\_new= [-0.03132843 0.96481126 2.06651717]

gradient= [-2.21292472e-04 -1.33921511e-05 2.34684623e-04] w = [-0.03132843 0.96481126 2.06651717] w\_new= [-0.03133064 0.96481113 2.06651952]

gradient= [-2.20969963e-04 -1.33743403e-05 2.34344304e-04] w = [-0.03133064 0.96481113 2.06651952] w\_new= [-0.03133285 0.96481099 2.06652186]

gradient= [-2.20647925e-04 -1.33565529e-05 2.34004478e-04] w = [-0.03133285 0.96481099 2.06652186] w\_new= [-0.03133506 0.96481086 2.0665242 ]

gradient= [-2.20326357e-04 -1.33387888e-05 2.33665145e-04] w = [-0.03133506 0.96481086 2.0665242 ] w\_new= [-0.03133726 0.96481073 2.06652654]

gradient= [-2.20005257e-04 -1.33210480e-05 2.33326305e-04] w = [-0.03133726 0.96481073 2.06652654] w\_new= [-0.03133946 0.96481059 2.06652887]

gradient= [-2.19684626e-04 -1.33033305e-05 2.32987956e-04] w = [-0.03133946 0.96481059 2.06652887] w\_new= [-0.03134166 0.96481046 2.0665312 ]

gradient= [-2.19364462e-04 -1.32856362e-05 2.32650099e-04] w = [-0.03134166 0.96481046 2.0665312 ] w\_new= [-0.03134385 0.96481033 2.06653353]

gradient= [-2.19044766e-04 -1.32679651e-05 2.32312731e-04] w = [-0.03134385 0.96481033 2.06653353] w\_new= [-0.03134604 0.96481019 2.06653585]

gradient= [-2.18725536e-04 -1.32503172e-05 2.31975853e-04] w = [-0.03134604 0.96481019 2.06653585] w\_new= [-0.03134823 0.96481006 2.06653817]

gradient= [-2.18406771e-04 -1.32326924e-05 2.31639464e-04] w = [-0.03134823 0.96481006 2.06653817] w\_new= [-0.03135041 0.96480993 2.06654048]

gradient= [-2.18088472e-04 -1.32150908e-05 2.31303563e-04] w = [-0.03135041 0.96480993 2.06654048] w\_new= [-0.0313526 0.9648098 2.0665428]

gradient= [-2.17770636e-04 -1.31975122e-05 2.30968149e-04] w = [-0.0313526 0.9648098 2.0665428] w\_new= [-0.03135477 0.96480967 2.06654511]

gradient= [-2.17453265e-04 -1.31799567e-05 2.30633221e-04] w = [-0.03135477 0.96480967 2.06654511] w\_new= [-0.03135695 0.96480953 2.06654741]

gradient= [-2.17136356e-04 -1.31624243e-05 2.30298780e-04] w = [-0.03135695 0.96480953 2.06654741] w\_new= [-0.03135912 0.9648094 2.06654972]

gradient= [-2.16819909e-04 -1.31449148e-05 2.29964824e-04] w = [-0.03135912 0.9648094 2.06654972] w\_new= [-0.03136129 0.96480927 2.06655202]

gradient= [-2.16503924e-04 -1.31274283e-05 2.29631353e-04] w = [-0.03136129 0.96480927 2.06655202] w\_new= [-0.03136345 0.96480914 2.06655431]

gradient= [-2.16188400e-04 -1.31099647e-05 2.29298365e-04] w = [-0.03136345 0.96480914 2.06655431] w\_new= [-0.03136561 0.96480901 2.06655661]

gradient= [-2.15873336e-04 -1.30925241e-05 2.28965861e-04] w = [-0.03136561 0.96480901 2.06655661] w\_new= [-0.03136777 0.96480888 2.0665589 ]

gradient= [-2.15558732e-04 -1.30751063e-05 2.28633838e-04] w = [-0.03136777 0.96480888 2.0665589 ] w\_new= [-0.03136993 0.96480875 2.06656118]

gradient= [-2.15244587e-04 -1.30577114e-05 2.28302298e-04] w = [-0.03136993 0.96480875 2.06656118] w\_new= [-0.03137208 0.96480862 2.06656346]

gradient= [-2.14930899e-04 -1.30403393e-05 2.27971239e-04] w = [-0.03137208 0.96480862 2.06656346] w\_new= [-0.03137423 0.96480849 2.06656574]

gradient= [-2.1461767e-04 -1.3022990e-05 2.2764066e-04] w = [-0.03137423 0.96480849 2.06656574] w\_new= [-0.03137638 0.96480836 2.06656802]

gradient= [-2.14304897e-04 -1.30056634e-05 2.27310560e-04] w = [-0.03137638 0.96480836 2.06656802] w\_new= [-0.03137852 0.96480823 2.06657029]

gradient= [-2.13992580e-04 -1.29883596e-05 2.26980940e-04] w = [-0.03137852 0.96480823 2.06657029] w\_new= [-0.03138066 0.9648081 2.06657256]

gradient= [-2.13680719e-04 -1.29710785e-05 2.26651798e-04] w = [-0.03138066 0.9648081 2.06657256] w\_new= [-0.0313828 0.96480797 2.06657483]

gradient= [-2.13369313e-04 -1.29538200e-05 2.26323133e-04] w = [-0.0313828 0.96480797 2.06657483] w\_new= [-0.03138493 0.96480784 2.06657709]

gradient= [-2.13058361e-04 -1.29365842e-05 2.25994945e-04] w = [-0.03138493 0.96480784 2.06657709] w\_new= [-0.03138706 0.96480771 2.06657935]

gradient= [-2.12747862e-04 -1.29193711e-05 2.25667233e-04] w = [-0.03138706 0.96480771 2.06657935] w\_new= [-0.03138919 0.96480758 2.06658161]

gradient= [-2.12437817e-04 -1.29021805e-05 2.25339997e-04] w = [-0.03138919 0.96480758 2.06658161] w\_new= [-0.03139131 0.96480745 2.06658386]

gradient= [-2.12128223e-04 -1.28850124e-05 2.25013236e-04] w = [-0.03139131 0.96480745 2.06658386] w\_new= [-0.03139343 0.96480732 2.06658611]

gradient= [-2.11819082e-04 -1.28678669e-05 2.24686948e-04] w = [-0.03139343 0.96480732 2.06658611] w\_new= [-0.03139555 0.96480719 2.06658836]

gradient= [-2.11510391e-04 -1.28507439e-05 2.24361134e-04] w = [-0.03139555 0.96480719 2.06658836] w\_new= [-0.03139767 0.96480706 2.0665906 ]

gradient= [-2.11202150e-04 -1.28336434e-05 2.24035793e-04] w = [-0.03139767 0.96480706 2.0665906 ] w\_new= [-0.03139978 0.96480693 2.06659284]

gradient= [-2.10894359e-04 -1.28165653e-05 2.23710924e-04] w = [-0.03139978 0.96480693 2.06659284] w\_new= [-0.03140189 0.96480681 2.06659508]

gradient= [-2.10587016e-04 -1.27995096e-05 2.23386526e-04] w = [-0.03140189 0.96480681 2.06659508] w\_new= [-0.03140399 0.96480668 2.06659732]

gradient= [-2.10280123e-04 -1.27824763e-05 2.23062599e-04] w = [-0.03140399 0.96480668 2.06659732] w\_new= [-0.0314061 0.96480655 2.06659955]

gradient= [-2.09973676e-04 -1.27654654e-05 2.22739142e-04] w = [-0.0314061 0.96480655 2.06659955] w\_new= [-0.0314082 0.96480642 2.06660177]

gradient= [-2.09667677e-04 -1.27484768e-05 2.22416154e-04] w = [-0.0314082 0.96480642 2.06660177] w\_new= [-0.03141029 0.9648063 2.066604 ]

gradient= [-2.09362124e-04 -1.27315104e-05 2.22093634e-04] w = [-0.03141029 0.9648063 2.066604 ] w\_new= [-0.03141239 0.96480617 2.06660622]

gradient= [-2.09057016e-04 -1.27145664e-05 2.21771583e-04] w = [-0.03141239 0.96480617 2.06660622] w\_new= [-0.03141448 0.96480604 2.06660844]

gradient= [-2.08752354e-04 -1.26976446e-05 2.21449998e-04] w = [-0.03141448 0.96480604 2.06660844] w\_new= [-0.03141656 0.96480591 2.06661065]

gradient= [-2.08448136e-04 -1.26807450e-05 2.21128881e-04] w = [-0.03141656 0.96480591 2.06661065] w\_new= [-0.03141865 0.96480579 2.06661286]

gradient= [-2.08144362e-04 -1.26638675e-05 2.20808229e-04] w = [-0.03141865 0.96480579 2.06661286] w\_new= [-0.03142073 0.96480566 2.06661507]

gradient= [-2.07841030e-04 -1.26470123e-05 2.20488042e-04] w = [-0.03142073 0.96480566 2.06661507] w\_new= [-0.03142281 0.96480553 2.06661728]

gradient= [-2.07538141e-04 -1.26301791e-05 2.20168320e-04] w = [-0.03142281 0.96480553 2.06661728] w\_new= [-0.03142488 0.96480541 2.06661948]

gradient= [-2.07235694e-04 -1.26133681e-05 2.19849062e-04] w = [-0.03142488 0.96480541 2.06661948] w\_new= [-0.03142696 0.96480528 2.06662168]

gradient= [-2.06933688e-04 -1.25965791e-05 2.19530267e-04] w = [-0.03142696 0.96480528 2.06662168] w\_new= [-0.03142903 0.96480516 2.06662387]

gradient= [-2.06632123e-04 -1.25798122e-05 2.19211935e-04] w = [-0.03142903 0.96480516 2.06662387] w\_new= [-0.03143109 0.96480503 2.06662606]

gradient= [-2.06330997e-04 -1.25630672e-05 2.18894064e-04] w = [-0.03143109 0.96480503 2.06662606] w\_new= [-0.03143316 0.9648049 2.06662825]

gradient= [-2.06030310e-04 -1.25463443e-05 2.18576655e-04] w = [-0.03143316 0.9648049 2.06662825] w\_new= [-0.03143522 0.96480478 2.06663044]

gradient= [-2.05730062e-04 -1.25296433e-05 2.18259706e-04] w = [-0.03143522 0.96480478 2.06663044] w\_new= [-0.03143727 0.96480465 2.06663262]

gradient= [-2.05430252e-04 -1.25129642e-05 2.17943217e-04] w = [-0.03143727 0.96480465 2.06663262] w\_new= [-0.03143933 0.96480453 2.0666348 ]

gradient= [-2.05130880e-04 -1.24963070e-05 2.17627187e-04] w = [-0.03143933 0.96480453 2.0666348 ] w\_new= [-0.03144138 0.9648044 2.06663698]

gradient= [-2.04831943e-04 -1.24796717e-05 2.17311615e-04] w = [-0.03144138 0.9648044 2.06663698] w\_new= [-0.03144343 0.96480428 2.06663915]

gradient= [-2.04533443e-04 -1.24630583e-05 2.16996501e-04] w = [-0.03144343 0.96480428 2.06663915] w\_new= [-0.03144547 0.96480415 2.06664132]

gradient= [-2.04235378e-04 -1.24464666e-05 2.16681845e-04] w = [-0.03144547 0.96480415 2.06664132] w\_new= [-0.03144751 0.96480403 2.06664349]

gradient= [-2.03937748e-04 -1.24298968e-05 2.16367645e-04] w = [-0.03144751 0.96480403 2.06664349] w\_new= [-0.03144955 0.9648039 2.06664565]

gradient= [-2.03640552e-04 -1.24133487e-05 2.16053901e-04] w = [-0.03144955 0.9648039 2.06664565] w\_new= [-0.03145159 0.96480378 2.06664781]

gradient= [-2.03343790e-04 -1.23968223e-05 2.15740612e-04] w = [-0.03145159 0.96480378 2.06664781] w\_new= [-0.03145362 0.96480366 2.06664997]

gradient= [-2.03047460e-04 -1.23803176e-05 2.15427777e-04] w = [-0.03145362 0.96480366 2.06664997] w\_new= [-0.03145565 0.96480353 2.06665212]

gradient= [-2.02751562e-04 -1.23638346e-05 2.15115397e-04] w = [-0.03145565 0.96480353 2.06665212] w\_new= [-0.03145768 0.96480341 2.06665427]

gradient= [-2.02456096e-04 -1.23473732e-05 2.14803469e-04] w = [-0.03145768 0.96480341 2.06665427] w\_new= [-0.03145971 0.96480329 2.06665642]

gradient= [-2.02161061e-04 -1.23309335e-05 2.14491994e-04] w = [-0.03145971 0.96480329 2.06665642] w\_new= [-0.03146173 0.96480316 2.06665857]

gradient= [-2.01866456e-04 -1.23145153e-05 2.14180971e-04] w = [-0.03146173 0.96480316 2.06665857] w\_new= [-0.03146375 0.96480304 2.06666071]

gradient= [-2.01572281e-04 -1.22981187e-05 2.13870400e-04] w = [-0.03146375 0.96480304 2.06666071] w\_new= [-0.03146576 0.96480292 2.06666285]

gradient= [-2.01278535e-04 -1.22817437e-05 2.13560278e-04] w = [-0.03146576 0.96480292 2.06666285] w\_new= [-0.03146778 0.96480279 2.06666498]

gradient= [-2.00985217e-04 -1.22653901e-05 2.13250607e-04] w = [-0.03146778 0.96480279 2.06666498] w\_new= [-0.03146979 0.96480267 2.06666711]

gradient= [-2.00692327e-04 -1.22490580e-05 2.12941385e-04] w = [-0.03146979 0.96480267 2.06666711] w\_new= [-0.03147179 0.96480255 2.06666924]

gradient= [-2.00399864e-04 -1.22327474e-05 2.12632612e-04] w = [-0.03147179 0.96480255 2.06666924] w\_new= [-0.0314738 0.96480243 2.06667137]

gradient= [-2.00107828e-04 -1.22164582e-05 2.12324286e-04] w = [-0.0314738 0.96480243 2.06667137] w\_new= [-0.0314758 0.9648023 2.06667349]

gradient= [-1.99816218e-04 -1.22001903e-05 2.12016408e-04] w = [-0.0314758 0.9648023 2.06667349] w\_new= [-0.0314778 0.96480218 2.06667561]

gradient= [-1.99525033e-04 -1.21839439e-05 2.11708977e-04] w = [-0.0314778 0.96480218 2.06667561] w\_new= [-0.03147979 0.96480206 2.06667773]

gradient= [-1.99234272e-04 -1.21677188e-05 2.11401991e-04] w = [-0.03147979 0.96480206 2.06667773] w\_new= [-0.03148178 0.96480194 2.06667984]

gradient= [-1.98943936e-04 -1.21515150e-05 2.11095451e-04] w = [-0.03148178 0.96480194 2.06667984] w\_new= [-0.03148377 0.96480182 2.06668196]

gradient= [-1.98654023e-04 -1.21353324e-05 2.10789356e-04] w = [-0.03148377 0.96480182 2.06668196] w\_new= [-0.03148576 0.9648017 2.06668406]

gradient= [-1.98364533e-04 -1.21191712e-05 2.10483704e-04] w = [-0.03148576 0.9648017 2.06668406] w\_new= [-0.03148774 0.96480157 2.06668617]

gradient= [-1.98075465e-04 -1.21030311e-05 2.10178496e-04] w = [-0.03148774 0.96480157 2.06668617] w\_new= [-0.03148972 0.96480145 2.06668827]

gradient= [-1.97786819e-04 -1.20869123e-05 2.09873731e-04] w = [-0.03148972 0.96480145 2.06668827] w\_new= [-0.0314917 0.96480133 2.06669037]

gradient= [-1.97498593e-04 -1.20708146e-05 2.09569408e-04] w = [-0.0314917 0.96480133 2.06669037] w\_new= [-0.03149368 0.96480121 2.06669246]

gradient= [-1.97210788e-04 -1.20547381e-05 2.09265527e-04] w = [-0.03149368 0.96480121 2.06669246] w\_new= [-0.03149565 0.96480109 2.06669456]

gradient= [-1.96923403e-04 -1.20386827e-05 2.08962086e-04] w = [-0.03149565 0.96480109 2.06669456] w\_new= [-0.03149762 0.96480097 2.06669665]

gradient= [-1.96636437e-04 -1.20226484e-05 2.08659085e-04] w = [-0.03149762 0.96480097 2.06669665] w\_new= [-0.03149958 0.96480085 2.06669873]

gradient= [-1.96349889e-04 -1.20066352e-05 2.08356524e-04] w = [-0.03149958 0.96480085 2.06669873] w\_new= [-0.03150155 0.96480073 2.06670082]

gradient= [-1.96063760e-04 -1.19906430e-05 2.08054403e-04] w = [-0.03150155 0.96480073 2.06670082] w\_new= [-0.03150351 0.96480061 2.0667029 ]

gradient= [-1.95778047e-04 -1.19746718e-05 2.07752719e-04] w = [-0.03150351 0.96480061 2.0667029 ] w\_new= [-0.03150547 0.96480049 2.06670498]

gradient= [-1.95492751e-04 -1.19587216e-05 2.07451473e-04] w = [-0.03150547 0.96480049 2.06670498] w\_new= [-0.03150742 0.96480037 2.06670705]

gradient= [-1.95207872e-04 -1.19427923e-05 2.07150664e-04] w = [-0.03150742 0.96480037 2.06670705] w\_new= [-0.03150937 0.96480025 2.06670912]

gradient= [-1.94923407e-04 -1.19268840e-05 2.06850291e-04] w = [-0.03150937 0.96480025 2.06670912] w\_new= [-0.03151132 0.96480013 2.06671119]

gradient= [-1.94639358e-04 -1.19109966e-05 2.06550354e-04] w = [-0.03151132 0.96480013 2.06671119] w\_new= [-0.03151327 0.96480001 2.06671326]

gradient= [-1.94355723e-04 -1.18951300e-05 2.06250853e-04] w = [-0.03151327 0.96480001 2.06671326] w\_new= [-0.03151521 0.96479989 2.06671532]

gradient= [-1.94072501e-04 -1.18792843e-05 2.05951785e-04] w = [-0.03151521 0.96479989 2.06671532] w\_new= [-0.03151715 0.96479978 2.06671738]

gradient= [-1.93789693e-04 -1.18634594e-05 2.05653152e-04] w = [-0.03151715 0.96479978 2.06671738] w\_new= [-0.03151909 0.96479966 2.06671943]

gradient= [-1.93507297e-04 -1.18476554e-05 2.05354952e-04] w = [-0.03151909 0.96479966 2.06671943] w\_new= [-0.03152103 0.96479954 2.06672149]

gradient= [-1.93225312e-04 -1.18318720e-05 2.05057184e-04] w = [-0.03152103 0.96479954 2.06672149] w\_new= [-0.03152296 0.96479942 2.06672354]

gradient= [-1.92943739e-04 -1.18161095e-05 2.04759849e-04] w = [-0.03152296 0.96479942 2.06672354] w\_new= [-0.03152489 0.9647993 2.06672559]

gradient= [-1.92662577e-04 -1.18003676e-05 2.04462945e-04] w = [-0.03152489 0.9647993 2.06672559] w\_new= [-0.03152681 0.96479918 2.06672763]

gradient= [-1.92381825e-04 -1.17846464e-05 2.04166471e-04] w = [-0.03152681 0.96479918 2.06672763] w\_new= [-0.03152874 0.96479907 2.06672967]

gradient= [-1.92101482e-04 -1.17689459e-05 2.03870428e-04] w = [-0.03152874 0.96479907 2.06672967] w\_new= [-0.03153066 0.96479895 2.06673171]

gradient= [-1.91821548e-04 -1.17532660e-05 2.03574814e-04] w = [-0.03153066 0.96479895 2.06673171] w\_new= [-0.03153258 0.96479883 2.06673375]

gradient= [-1.91542022e-04 -1.17376067e-05 2.03279629e-04] w = [-0.03153258 0.96479883 2.06673375] w\_new= [-0.03153449 0.96479871 2.06673578]

gradient= [-1.91262904e-04 -1.17219680e-05 2.02984872e-04] w = [-0.03153449 0.96479871 2.06673578] w\_new= [-0.03153641 0.9647986 2.06673781]

gradient= [-1.90984193e-04 -1.17063499e-05 2.02690543e-04] w = [-0.03153641 0.9647986 2.06673781] w\_new= [-0.03153832 0.96479848 2.06673984]

gradient= [-1.90705888e-04 -1.16907523e-05 2.02396640e-04] w = [-0.03153832 0.96479848 2.06673984] w\_new= [-0.03154022 0.96479836 2.06674186]

gradient= [-1.90427989e-04 -1.16751751e-05 2.02103164e-04] w = [-0.03154022 0.96479836 2.06674186] w\_new= [-0.03154213 0.96479825 2.06674388]

gradient= [-1.90150496e-04 -1.16596185e-05 2.01810114e-04] w = [-0.03154213 0.96479825 2.06674388] w\_new= [-0.03154403 0.96479813 2.0667459 ]

gradient= [-1.89873407e-04 -1.16440823e-05 2.01517489e-04] w = [-0.03154403 0.96479813 2.0667459 ] w\_new= [-0.03154593 0.96479801 2.06674791]

gradient= [-1.89596722e-04 -1.16285665e-05 2.01225288e-04] w = [-0.03154593 0.96479801 2.06674791] w\_new= [-0.03154782 0.9647979 2.06674993]

gradient= [-1.89320441e-04 -1.16130711e-05 2.00933512e-04] w = [-0.03154782 0.9647979 2.06674993] w\_new= [-0.03154972 0.96479778 2.06675194]

gradient= [-1.89044562e-04 -1.15975961e-05 2.00642158e-04] w = [-0.03154972 0.96479778 2.06675194] w\_new= [-0.03155161 0.96479766 2.06675394]

gradient= [-1.88769086e-04 -1.15821414e-05 2.00351228e-04] w = [-0.03155161 0.96479766 2.06675394] w\_new= [-0.03155349 0.96479755 2.06675595]

gradient= [-1.88494012e-04 -1.15667071e-05 2.00060719e-04] w = [-0.03155349 0.96479755 2.06675595] w\_new= [-0.03155538 0.96479743 2.06675795]

gradient= [-1.88219339e-04 -1.15512930e-05 1.99770632e-04] w = [-0.03155538 0.96479743 2.06675795] w\_new= [-0.03155726 0.96479732 2.06675994]

gradient= [-1.87945066e-04 -1.15358992e-05 1.99480965e-04] w = [-0.03155726 0.96479732 2.06675994] w\_new= [-0.03155914 0.9647972 2.06676194]

gradient= [-1.87671193e-04 -1.15205256e-05 1.99191719e-04] w = [-0.03155914 0.9647972 2.06676194] w\_new= [-0.03156102 0.96479709 2.06676393]

gradient= [-1.87397720e-04 -1.15051723e-05 1.98902892e-04] w = [-0.03156102 0.96479709 2.06676393] w\_new= [-0.03156289 0.96479697 2.06676592]

gradient= [-1.87124646e-04 -1.14898391e-05 1.98614485e-04] w = [-0.03156289 0.96479697 2.06676592] w\_new= [-0.03156476 0.96479686 2.06676791]

gradient= [-1.86851969e-04 -1.14745261e-05 1.98326495e-04] w = [-0.03156476 0.96479686 2.06676791] w\_new= [-0.03156663 0.96479674 2.06676989]

gradient= [-1.86579691e-04 -1.14592332e-05 1.98038924e-04] w = [-0.03156663 0.96479674 2.06676989] w\_new= [-0.0315685 0.96479663 2.06677187]

gradient= [-1.86307809e-04 -1.14439604e-05 1.97751769e-04] w = [-0.0315685 0.96479663 2.06677187] w\_new= [-0.03157036 0.96479651 2.06677385]

gradient= [-1.86036324e-04 -1.14287077e-05 1.97465032e-04] w = [-0.03157036 0.96479651 2.06677385] w\_new= [-0.03157222 0.9647964 2.06677582]

gradient= [-1.85765235e-04 -1.14134751e-05 1.97178710e-04] w = [-0.03157222 0.9647964 2.06677582] w\_new= [-0.03157408 0.96479628 2.06677779]

gradient= [-1.85494541e-04 -1.13982625e-05 1.96892803e-04] w = [-0.03157408 0.96479628 2.06677779] w\_new= [-0.03157593 0.96479617 2.06677976]

gradient= [-1.85224242e-04 -1.13830698e-05 1.96607312e-04] w = [-0.03157593 0.96479617 2.06677976] w\_new= [-0.03157779 0.96479606 2.06678173]

gradient= [-1.84954337e-04 -1.13678972e-05 1.96322234e-04] w = [-0.03157779 0.96479606 2.06678173] w\_new= [-0.03157963 0.96479594 2.06678369]

gradient= [-1.84684825e-04 -1.13527445e-05 1.96037570e-04] w = [-0.03157963 0.96479594 2.06678369] w\_new= [-0.03158148 0.96479583 2.06678565]

gradient= [-1.84415707e-04 -1.13376118e-05 1.95753319e-04] w = [-0.03158148 0.96479583 2.06678565] w\_new= [-0.03158333 0.96479572 2.06678761]

gradient= [-1.84146981e-04 -1.13224989e-05 1.95469480e-04] w = [-0.03158333 0.96479572 2.06678761] w\_new= [-0.03158517 0.9647956 2.06678956]

gradient= [-1.83878647e-04 -1.13074059e-05 1.95186053e-04] w = [-0.03158517 0.9647956 2.06678956] w\_new= [-0.03158701 0.96479549 2.06679152]

gradient= [-1.83610704e-04 -1.12923328e-05 1.94903037e-04] w = [-0.03158701 0.96479549 2.06679152] w\_new= [-0.03158884 0.96479538 2.06679347]

gradient= [-1.83343152e-04 -1.12772794e-05 1.94620432e-04] w = [-0.03158884 0.96479538 2.06679347] w\_new= [-0.03159068 0.96479526 2.06679541]

gradient= [-1.83075991e-04 -1.12622459e-05 1.94338237e-04] w = [-0.03159068 0.96479526 2.06679541] w\_new= [-0.03159251 0.96479515 2.06679735]

gradient= [-1.82809218e-04 -1.12472322e-05 1.94056451e-04] w = [-0.03159251 0.96479515 2.06679735] w\_new= [-0.03159433 0.96479504 2.0667993 ]

gradient= [-1.82542835e-04 -1.12322382e-05 1.93775073e-04] w = [-0.03159433 0.96479504 2.0667993 ] w\_new= [-0.03159616 0.96479493 2.06680123]

gradient= [-1.82276840e-04 -1.12172639e-05 1.93494104e-04] w = [-0.03159616 0.96479493 2.06680123] w\_new= [-0.03159798 0.96479481 2.06680317]

gradient= [-1.82011233e-04 -1.12023093e-05 1.93213543e-04] w = [-0.03159798 0.96479481 2.06680317] w\_new= [-0.0315998 0.9647947 2.0668051]

gradient= [-1.81746014e-04 -1.11873743e-05 1.92933388e-04] w = [-0.0315998 0.9647947 2.0668051] w\_new= [-0.03160162 0.96479459 2.06680703]

gradient= [-1.81481181e-04 -1.11724591e-05 1.92653640e-04] w = [-0.03160162 0.96479459 2.06680703] w\_new= [-0.03160343 0.96479448 2.06680896]

gradient= [-1.81216734e-04 -1.11575634e-05 1.92374298e-04] w = [-0.03160343 0.96479448 2.06680896] w\_new= [-0.03160525 0.96479437 2.06681088]

gradient= [-1.80952673e-04 -1.11426873e-05 1.92095361e-04] w = [-0.03160525 0.96479437 2.06681088] w\_new= [-0.03160706 0.96479426 2.0668128 ]

gradient= [-1.80688997e-04 -1.11278308e-05 1.91816828e-04] w = [-0.03160706 0.96479426 2.0668128 ] w\_new= [-0.03160886 0.96479414 2.06681472]

gradient= [-1.80425706e-04 -1.11129939e-05 1.91538700e-04] w = [-0.03160886 0.96479414 2.06681472] w\_new= [-0.03161067 0.96479403 2.06681663]

gradient= [-1.80162798e-04 -1.10981764e-05 1.91260975e-04] w = [-0.03161067 0.96479403 2.06681663] w\_new= [-0.03161247 0.96479392 2.06681855]

gradient= [-1.79900274e-04 -1.10833784e-05 1.90983653e-04] w = [-0.03161247 0.96479392 2.06681855] w\_new= [-0.03161427 0.96479381 2.06682046]

gradient= [-1.79638133e-04 -1.10686000e-05 1.90706733e-04] w = [-0.03161427 0.96479381 2.06682046] w\_new= [-0.03161606 0.9647937 2.06682236]

gradient= [-1.79376374e-04 -1.10538409e-05 1.90430215e-04] w = [-0.03161606 0.9647937 2.06682236] w\_new= [-0.03161786 0.96479359 2.06682427]

gradient= [-1.79114996e-04 -1.10391013e-05 1.90154098e-04] w = [-0.03161786 0.96479359 2.06682427] w\_new= [-0.03161965 0.96479348 2.06682617]

gradient= [-1.78854000e-04 -1.10243810e-05 1.89878381e-04] w = [-0.03161965 0.96479348 2.06682617] w\_new= [-0.03162144 0.96479337 2.06682807]

gradient= [-1.78593385e-04 -1.10096801e-05 1.89603065e-04] w = [-0.03162144 0.96479337 2.06682807] w\_new= [-0.03162322 0.96479326 2.06682996]

gradient= [-1.78333149e-04 -1.09949986e-05 1.89328148e-04] w = [-0.03162322 0.96479326 2.06682996] w\_new= [-0.03162501 0.96479315 2.06683186]

gradient= [-1.78073293e-04 -1.09803364e-05 1.89053629e-04] w = [-0.03162501 0.96479315 2.06683186] w\_new= [-0.03162679 0.96479304 2.06683375]

gradient= [-1.77813816e-04 -1.09656935e-05 1.88779509e-04] w = [-0.03162679 0.96479304 2.06683375] w\_new= [-0.03162857 0.96479293 2.06683564]

gradient= [-1.77554717e-04 -1.09510698e-05 1.88505787e-04] w = [-0.03162857 0.96479293 2.06683564] w\_new= [-0.03163034 0.96479282 2.06683752]

gradient= [-1.77295996e-04 -1.09364654e-05 1.88232461e-04] w = [-0.03163034 0.96479282 2.06683752] w\_new= [-0.03163211 0.96479271 2.0668394 ]

gradient= [-1.77037652e-04 -1.09218801e-05 1.87959532e-04] w = [-0.03163211 0.96479271 2.0668394 ] w\_new= [-0.03163389 0.9647926 2.06684128]

gradient= [-1.76779685e-04 -1.09073141e-05 1.87686999e-04] w = [-0.03163389 0.9647926 2.06684128] w\_new= [-0.03163565 0.96479249 2.06684316]

gradient= [-1.76522094e-04 -1.08927673e-05 1.87414861e-04] w = [-0.03163565 0.96479249 2.06684316] w\_new= [-0.03163742 0.96479238 2.06684503]

gradient= [-1.76264879e-04 -1.08782396e-05 1.87143118e-04] w = [-0.03163742 0.96479238 2.06684503] w\_new= [-0.03163918 0.96479228 2.06684691]

gradient= [-1.76008038e-04 -1.08637310e-05 1.86871769e-04] w = [-0.03163918 0.96479228 2.06684691] w\_new= [-0.03164094 0.96479217 2.06684877]

gradient= [-1.75751573e-04 -1.08492414e-05 1.86600814e-04] w = [-0.03164094 0.96479217 2.06684877] w\_new= [-0.0316427 0.96479206 2.06685064]

gradient= [-1.75495481e-04 -1.08347710e-05 1.86330252e-04] w = [-0.0316427 0.96479206 2.06685064] w\_new= [-0.03164445 0.96479195 2.0668525 ]

gradient= [-1.75239763e-04 -1.08203196e-05 1.86060082e-04] w = [-0.03164445 0.96479195 2.0668525 ] w\_new= [-0.03164621 0.96479184 2.06685436]

gradient= [-1.74984417e-04 -1.08058872e-05 1.85790305e-04] w = [-0.03164621 0.96479184 2.06685436] w\_new= [-0.03164796 0.96479173 2.06685622]

gradient= [-1.74729444e-04 -1.07914738e-05 1.85520918e-04] w = [-0.03164796 0.96479173 2.06685622] w\_new= [-0.0316497 0.96479163 2.06685808]

gradient= [-1.74474843e-04 -1.07770794e-05 1.85251922e-04] w = [-0.0316497 0.96479163 2.06685808] w\_new= [-0.03165145 0.96479152 2.06685993]

gradient= [-1.74220613e-04 -1.07627039e-05 1.84983317e-04] w = [-0.03165145 0.96479152 2.06685993] w\_new= [-0.03165319 0.96479141 2.06686178]

gradient= [-1.73966754e-04 -1.07483474e-05 1.84715101e-04] w = [-0.03165319 0.96479141 2.06686178] w\_new= [-0.03165493 0.9647913 2.06686363]

gradient= [-1.73713264e-04 -1.07340097e-05 1.84447274e-04] w = [-0.03165493 0.9647913 2.06686363] w\_new= [-0.03165667 0.9647912 2.06686547]

gradient= [-1.73460145e-04 -1.07196909e-05 1.84179836e-04] w = [-0.03165667 0.9647912 2.06686547] w\_new= [-0.0316584 0.96479109 2.06686731]

gradient= [-1.73207394e-04 -1.07053910e-05 1.83912785e-04] w = [-0.0316584 0.96479109 2.06686731] w\_new= [-0.03166013 0.96479098 2.06686915]

gradient= [-1.72955012e-04 -1.06911099e-05 1.83646122e-04] w = [-0.03166013 0.96479098 2.06686915] w\_new= [-0.03166186 0.96479087 2.06687099]

gradient= [-1.72702999e-04 -1.06768475e-05 1.83379846e-04] w = [-0.03166186 0.96479087 2.06687099] w\_new= [-0.03166359 0.96479077 2.06687282]

gradient= [-1.72451352e-04 -1.06626040e-05 1.83113956e-04] w = [-0.03166359 0.96479077 2.06687282] w\_new= [-0.03166531 0.96479066 2.06687465]

gradient= [-1.72200073e-04 -1.06483792e-05 1.82848452e-04] w = [-0.03166531 0.96479066 2.06687465] w\_new= [-0.03166704 0.96479055 2.06687648]

gradient= [-1.71949159e-04 -1.06341731e-05 1.82583333e-04] w = [-0.03166704 0.96479055 2.06687648] w\_new= [-0.03166876 0.96479045 2.06687831]

gradient= [-1.71698612e-04 -1.06199857e-05 1.82318598e-04] w = [-0.03166876 0.96479045 2.06687831] w\_new= [-0.03167047 0.96479034 2.06688013]

gradient= [-1.71448430e-04 -1.06058170e-05 1.82054247e-04] w = [-0.03167047 0.96479034 2.06688013] w\_new= [-0.03167219 0.96479024 2.06688195]

gradient= [-1.71198613e-04 -1.05916669e-05 1.81790280e-04] w = [-0.03167219 0.96479024 2.06688195] w\_new= [-0.0316739 0.96479013 2.06688377]

gradient= [-1.70949160e-04 -1.05775355e-05 1.81526696e-04] w = [-0.0316739 0.96479013 2.06688377] w\_new= [-0.03167561 0.96479002 2.06688558]

gradient= [-1.70700071e-04 -1.05634227e-05 1.81263494e-04] w = [-0.03167561 0.96479002 2.06688558] w\_new= [-0.03167732 0.96478992 2.0668874 ]

gradient= [-1.70451345e-04 -1.05493284e-05 1.81000674e-04] w = [-0.03167732 0.96478992 2.0668874 ] w\_new= [-0.03167902 0.96478981 2.06688921]

gradient= [-1.70202982e-04 -1.05352527e-05 1.80738235e-04] w = [-0.03167902 0.96478981 2.06688921] w\_new= [-0.03168072 0.96478971 2.06689101]

gradient= [-1.69954981e-04 -1.05211956e-05 1.80476177e-04] w = [-0.03168072 0.96478971 2.06689101] w\_new= [-0.03168242 0.9647896 2.06689282]

gradient= [-1.69707341e-04 -1.05071569e-05 1.80214498e-04] w = [-0.03168242 0.9647896 2.06689282] w\_new= [-0.03168412 0.9647895 2.06689462]

gradient= [-1.69460063e-04 -1.04931367e-05 1.79953200e-04] w = [-0.03168412 0.9647895 2.06689462] w\_new= [-0.03168581 0.96478939 2.06689642]

gradient= [-1.69213145e-04 -1.04791350e-05 1.79692280e-04] w = [-0.03168581 0.96478939 2.06689642] w\_new= [-0.03168751 0.96478929 2.06689822]

gradient= [-1.68966587e-04 -1.04651517e-05 1.79431739e-04] w = [-0.03168751 0.96478929 2.06689822] w\_new= [-0.0316892 0.96478918 2.06690001]

gradient= [-1.68720389e-04 -1.04511869e-05 1.79171576e-04] w = [-0.0316892 0.96478918 2.06690001] w\_new= [-0.03169088 0.96478908 2.0669018 ]

gradient= [-1.68474550e-04 -1.04372404e-05 1.78911790e-04] w = [-0.03169088 0.96478908 2.0669018 ] w\_new= [-0.03169257 0.96478897 2.06690359]

gradient= [-1.68229069e-04 -1.04233123e-05 1.78652381e-04] w = [-0.03169257 0.96478897 2.06690359] w\_new= [-0.03169425 0.96478887 2.06690538]

gradient= [-1.67983946e-04 -1.04094025e-05 1.78393348e-04] w = [-0.03169425 0.96478887 2.06690538] w\_new= [-0.03169593 0.96478877 2.06690716]

gradient= [-1.67739180e-04 -1.03955110e-05 1.78134691e-04] w = [-0.03169593 0.96478877 2.06690716] w\_new= [-0.03169761 0.96478866 2.06690894]

gradient= [-1.67494772e-04 -1.03816379e-05 1.77876410e-04] w = [-0.03169761 0.96478866 2.06690894] w\_new= [-0.03169928 0.96478856 2.06691072]

gradient= [-1.67250720e-04 -1.03677830e-05 1.77618502e-04] w = [-0.03169928 0.96478856 2.06691072] w\_new= [-0.03170095 0.96478845 2.0669125 ]

gradient= [-1.67007023e-04 -1.03539463e-05 1.77360969e-04] w = [-0.03170095 0.96478845 2.0669125 ] w\_new= [-0.03170262 0.96478835 2.06691427]

gradient= [-1.66763682e-04 -1.03401279e-05 1.77103810e-04] w = [-0.03170262 0.96478835 2.06691427] w\_new= [-0.03170429 0.96478825 2.06691604]

gradient= [-1.66520696e-04 -1.03263276e-05 1.76847023e-04] w = [-0.03170429 0.96478825 2.06691604] w\_new= [-0.03170596 0.96478814 2.06691781]

gradient= [-1.66278064e-04 -1.03125456e-05 1.76590609e-04] w = [-0.03170596 0.96478814 2.06691781] w\_new= [-0.03170762 0.96478804 2.06691958]

gradient= [-1.66035786e-04 -1.02987817e-05 1.76334567e-04] w = [-0.03170762 0.96478804 2.06691958] w\_new= [-0.03170928 0.96478794 2.06692134]

gradient= [-1.65793861e-04 -1.02850359e-05 1.76078896e-04] w = [-0.03170928 0.96478794 2.06692134] w\_new= [-0.03171094 0.96478784 2.0669231 ]

gradient= [-1.65552288e-04 -1.02713082e-05 1.75823597e-04] w = [-0.03171094 0.96478784 2.0669231 ] w\_new= [-0.03171259 0.96478773 2.06692486]

gradient= [-1.65311068e-04 -1.02575986e-05 1.75568667e-04] w = [-0.03171259 0.96478773 2.06692486] w\_new= [-0.03171425 0.96478763 2.06692662]

gradient= [-1.65070200e-04 -1.02439070e-05 1.75314107e-04] w = [-0.03171425 0.96478763 2.06692662] w\_new= [-0.0317159 0.96478753 2.06692837]

gradient= [-1.64829683e-04 -1.02302335e-05 1.75059917e-04] w = [-0.0317159 0.96478753 2.06692837] w\_new= [-0.03171755 0.96478743 2.06693012]

gradient= [-1.64589517e-04 -1.02165780e-05 1.74806095e-04] w = [-0.03171755 0.96478743 2.06693012] w\_new= [-0.03171919 0.96478732 2.06693187]

gradient= [-1.64349700e-04 -1.02029405e-05 1.74552641e-04] w = [-0.03171919 0.96478732 2.06693187] w\_new= [-0.03172084 0.96478722 2.06693361]

gradient= [-1.64110234e-04 -1.01893210e-05 1.74299555e-04] w = [-0.03172084 0.96478722 2.06693361] w\_new= [-0.03172248 0.96478712 2.06693536]

gradient= [-1.63871117e-04 -1.01757193e-05 1.74046836e-04] w = [-0.03172248 0.96478712 2.06693536] w\_new= [-0.03172412 0.96478702 2.0669371 ]

gradient= [-1.63632348e-04 -1.01621356e-05 1.73794483e-04] w = [-0.03172412 0.96478702 2.0669371 ] w\_new= [-0.03172575 0.96478692 2.06693884]

gradient= [-1.63393927e-04 -1.01485698e-05 1.73542497e-04] w = [-0.03172575 0.96478692 2.06693884] w\_new= [-0.03172739 0.96478681 2.06694057]

gradient= [-1.63155854e-04 -1.01350219e-05 1.73290876e-04] w = [-0.03172739 0.96478681 2.06694057] w\_new= [-0.03172902 0.96478671 2.0669423 ]

gradient= [-1.62918128e-04 -1.01214918e-05 1.73039620e-04] w = [-0.03172902 0.96478671 2.0669423 ] w\_new= [-0.03173065 0.96478661 2.06694403]

gradient= [-1.62680749e-04 -1.01079796e-05 1.72788729e-04] w = [-0.03173065 0.96478661 2.06694403] w\_new= [-0.03173227 0.96478651 2.06694576]

gradient= [-1.62443716e-04 -1.00944851e-05 1.72538201e-04] w = [-0.03173227 0.96478651 2.06694576] w\_new= [-0.0317339 0.96478641 2.06694749]

gradient= [-1.62207028e-04 -1.00810084e-05 1.72288037e-04] w = [-0.0317339 0.96478641 2.06694749] w\_new= [-0.03173552 0.96478631 2.06694921]

gradient= [-1.61970686e-04 -1.00675495e-05 1.72038235e-04] w = [-0.03173552 0.96478631 2.06694921] w\_new= [-0.03173714 0.96478621 2.06695093]

gradient= [-1.61734688e-04 -1.00541083e-05 1.71788796e-04] w = [-0.03173714 0.96478621 2.06695093] w\_new= [-0.03173876 0.96478611 2.06695265]

gradient= [-1.61499034e-04 -1.00406848e-05 1.71539719e-04] w = [-0.03173876 0.96478611 2.06695265] w\_new= [-0.03174037 0.96478601 2.06695436]

gradient= [-1.61263724e-04 -1.00272790e-05 1.71291003e-04] w = [-0.03174037 0.96478601 2.06695436] w\_new= [-0.03174198 0.96478591 2.06695608]

gradient= [-1.61028757e-04 -1.00138909e-05 1.71042648e-04] w = [-0.03174198 0.96478591 2.06695608] w\_new= [-0.03174359 0.96478581 2.06695779]

gradient= [-1.60794133e-04 -1.00005204e-05 1.70794653e-04] w = [-0.03174359 0.96478581 2.06695779] w\_new= [-0.0317452 0.96478571 2.0669595 ]

gradient= [-1.60559850e-04 -9.98716747e-06 1.70547018e-04] w = [-0.0317452 0.96478571 2.0669595 ] w\_new= [-0.03174681 0.96478561 2.0669612 ]

gradient= [-1.60325909e-04 -9.97383218e-06 1.70299742e-04] w = [-0.03174681 0.96478561 2.0669612 ] w\_new= [-0.03174841 0.96478551 2.0669629 ]

gradient= [-1.60092310e-04 -9.96051446e-06 1.70052824e-04] w = [-0.03174841 0.96478551 2.0669629 ] w\_new= [-0.03175001 0.96478541 2.0669646 ]

gradient= [-1.59859051e-04 -9.94721429e-06 1.69806265e-04] w = [-0.03175001 0.96478541 2.0669646 ] w\_new= [-0.03175161 0.96478531 2.0669663 ]

gradient= [-1.59626132e-04 -9.93393165e-06 1.69560063e-04] w = [-0.03175161 0.96478531 2.0669663 ] w\_new= [-0.03175321 0.96478521 2.066968 ]

gradient= [-1.59393552e-04 -9.92066651e-06 1.69314219e-04] w = [-0.03175321 0.96478521 2.066968 ] w\_new= [-0.0317548 0.96478511 2.06696969]

gradient= [-1.59161312e-04 -9.90741885e-06 1.69068731e-04] w = [-0.0317548 0.96478511 2.06696969] w\_new= [-0.03175639 0.96478501 2.06697138]

gradient= [-1.58929410e-04 -9.89418865e-06 1.68823599e-04] w = [-0.03175639 0.96478501 2.06697138] w\_new= [-0.03175798 0.96478491 2.06697307]

gradient= [-1.58697846e-04 -9.88097588e-06 1.68578822e-04] w = [-0.03175798 0.96478491 2.06697307] w\_new= [-0.03175957 0.96478481 2.06697476]

gradient= [-1.58466620e-04 -9.86778053e-06 1.68334401e-04] w = [-0.03175957 0.96478481 2.06697476] w\_new= [-0.03176115 0.96478471 2.06697644]

gradient= [-1.58235731e-04 -9.85460256e-06 1.68090334e-04] w = [-0.03176115 0.96478471 2.06697644] w\_new= [-0.03176274 0.96478462 2.06697812]

gradient= [-1.58005179e-04 -9.84144196e-06 1.67846621e-04] w = [-0.03176274 0.96478462 2.06697812] w\_new= [-0.03176432 0.96478452 2.0669798 ]

gradient= [-1.57774963e-04 -9.82829871e-06 1.67603262e-04] w = [-0.03176432 0.96478452 2.0669798 ] w\_new= [-0.03176589 0.96478442 2.06698147]

gradient= [-1.57545083e-04 -9.81517278e-06 1.67360255e-04] w = [-0.03176589 0.96478442 2.06698147] w\_new= [-0.03176747 0.96478432 2.06698315]

gradient= [-1.57315537e-04 -9.80206415e-06 1.67117601e-04] w = [-0.03176747 0.96478432 2.06698315] w\_new= [-0.03176904 0.96478422 2.06698482]

gradient= [-1.57086327e-04 -9.78897280e-06 1.66875299e-04] w = [-0.03176904 0.96478422 2.06698482] w\_new= [-0.03177061 0.96478412 2.06698649]

gradient= [-1.56857450e-04 -9.77589870e-06 1.66633349e-04] w = [-0.03177061 0.96478412 2.06698649] w\_new= [-0.03177218 0.96478403 2.06698815]

gradient= [-1.56628907e-04 -9.76284184e-06 1.66391749e-04] w = [-0.03177218 0.96478403 2.06698815] w\_new= [-0.03177375 0.96478393 2.06698982]

gradient= [-1.56400698e-04 -9.74980218e-06 1.66150500e-04] w = [-0.03177375 0.96478393 2.06698982] w\_new= [-0.03177531 0.96478383 2.06699148]

gradient= [-1.56172821e-04 -9.73677972e-06 1.65909601e-04] w = [-0.03177531 0.96478383 2.06699148] w\_new= [-0.03177687 0.96478373 2.06699314]

gradient= [-1.55945277e-04 -9.72377442e-06 1.65669051e-04] w = [-0.03177687 0.96478373 2.06699314] w\_new= [-0.03177843 0.96478364 2.0669948 ]

gradient= [-1.55718064e-04 -9.71078626e-06 1.65428850e-04] w = [-0.03177843 0.96478364 2.0669948 ] w\_new= [-0.03177999 0.96478354 2.06699645]

gradient= [-1.55491182e-04 -9.69781522e-06 1.65188997e-04] w = [-0.03177999 0.96478354 2.06699645] w\_new= [-0.03178155 0.96478344 2.0669981 ]

gradient= [-1.55264631e-04 -9.68486128e-06 1.64949493e-04] w = [-0.03178155 0.96478344 2.0669981 ] w\_new= [-0.0317831 0.96478335 2.06699975]

gradient= [-1.55038411e-04 -9.67192442e-06 1.64710335e-04] w = [-0.0317831 0.96478335 2.06699975] w\_new= [-0.03178465 0.96478325 2.0670014 ]

gradient= [-1.54812520e-04 -9.65900462e-06 1.64471525e-04] w = [-0.03178465 0.96478325 2.0670014 ] w\_new= [-0.0317862 0.96478315 2.06700304]

gradient= [-1.54586959e-04 -9.64610185e-06 1.64233061e-04] w = [-0.0317862 0.96478315 2.06700304] w\_new= [-0.03178774 0.96478306 2.06700469]

gradient= [-1.54361726e-04 -9.63321608e-06 1.63994943e-04] w = [-0.03178774 0.96478306 2.06700469] w\_new= [-0.03178929 0.96478296 2.06700633]

gradient= [-1.54136822e-04 -9.62034731e-06 1.63757170e-04] w = [-0.03178929 0.96478296 2.06700633] w\_new= [-0.03179083 0.96478286 2.06700796]

gradient= [-1.53912246e-04 -9.60749550e-06 1.63519742e-04] w = [-0.03179083 0.96478286 2.06700796] w\_new= [-0.03179237 0.96478277 2.0670096 ]

gradient= [-1.53687997e-04 -9.59466064e-06 1.63282658e-04] w = [-0.03179237 0.96478277 2.0670096 ] w\_new= [-0.0317939 0.96478267 2.06701123]

gradient= [-1.53464076e-04 -9.58184269e-06 1.63045918e-04] w = [-0.0317939 0.96478267 2.06701123] w\_new= [-0.03179544 0.96478258 2.06701286]

gradient= [-1.53240480e-04 -9.56904165e-06 1.62809522e-04] w = [-0.03179544 0.96478258 2.06701286] w\_new= [-0.03179697 0.96478248 2.06701449]

gradient= [-1.53017211e-04 -9.55625749e-06 1.62573468e-04] w = [-0.03179697 0.96478248 2.06701449] w\_new= [-0.0317985 0.96478239 2.06701612]

gradient= [-1.52794267e-04 -9.54349018e-06 1.62337757e-04] w = [-0.0317985 0.96478239 2.06701612] w\_new= [-0.03180003 0.96478229 2.06701774]

gradient= [-1.52571648e-04 -9.53073971e-06 1.62102388e-04] w = [-0.03180003 0.96478229 2.06701774] w\_new= [-0.03180155 0.96478219 2.06701936]

gradient= [-1.52349354e-04 -9.51800605e-06 1.61867360e-04] w = [-0.03180155 0.96478219 2.06701936] w\_new= [-0.03180308 0.9647821 2.06702098]

gradient= [-1.52127384e-04 -9.50528919e-06 1.61632673e-04] w = [-0.03180308 0.9647821 2.06702098] w\_new= [-0.0318046 0.964782 2.06702259]

gradient= [-1.51905737e-04 -9.49258909e-06 1.61398326e-04] w = [-0.0318046 0.964782 2.06702259] w\_new= [-0.03180612 0.96478191 2.06702421]

gradient= [-1.51684414e-04 -9.47990574e-06 1.61164319e-04] w = [-0.03180612 0.96478191 2.06702421] w\_new= [-0.03180763 0.96478181 2.06702582]

gradient= [-1.51463413e-04 -9.46723911e-06 1.60930652e-04] w = [-0.03180763 0.96478181 2.06702582] w\_new= [-0.03180915 0.96478172 2.06702743]

gradient= [-1.51242734e-04 -9.45458919e-06 1.60697324e-04] w = [-0.03180915 0.96478172 2.06702743] w\_new= [-0.03181066 0.96478163 2.06702904]

gradient= [-1.51022378e-04 -9.44195595e-06 1.60464334e-04] w = [-0.03181066 0.96478163 2.06702904] w\_new= [-0.03181217 0.96478153 2.06703064]

gradient= [-1.50802342e-04 -9.42933937e-06 1.60231681e-04] w = [-0.03181217 0.96478153 2.06703064] w\_new= [-0.03181368 0.96478144 2.06703224]

gradient= [-1.50582627e-04 -9.41673943e-06 1.59999367e-04] w = [-0.03181368 0.96478144 2.06703224] w\_new= [-0.03181519 0.96478134 2.06703384]

gradient= [-1.50363233e-04 -9.40415611e-06 1.59767389e-04] w = [-0.03181519 0.96478134 2.06703384] w\_new= [-0.03181669 0.96478125 2.06703544]

gradient= [-1.50144158e-04 -9.39158939e-06 1.59535748e-04] w = [-0.03181669 0.96478125 2.06703544] w\_new= [-0.03181819 0.96478115 2.06703704]

gradient= [-1.49925403e-04 -9.37903923e-06 1.59304442e-04] w = [-0.03181819 0.96478115 2.06703704] w\_new= [-0.03181969 0.96478106 2.06703863]

gradient= [-1.49706967e-04 -9.36650563e-06 1.59073472e-04] w = [-0.03181969 0.96478106 2.06703863] w\_new= [-0.03182119 0.96478097 2.06704022]

gradient= [-1.49488849e-04 -9.35398857e-06 1.58842838e-04] w = [-0.03182119 0.96478097 2.06704022] w\_new= [-0.03182268 0.96478087 2.06704181]

gradient= [-1.49271049e-04 -9.34148801e-06 1.58612537e-04] w = [-0.03182268 0.96478087 2.06704181] w\_new= [-0.03182418 0.96478078 2.0670434 ]

gradient= [-1.49053567e-04 -9.32900394e-06 1.58382571e-04] w = [-0.03182418 0.96478078 2.0670434 ] w\_new= [-0.03182567 0.96478069 2.06704498]

gradient= [-1.48836402e-04 -9.31653634e-06 1.58152938e-04] w = [-0.03182567 0.96478069 2.06704498] w\_new= [-0.03182715 0.96478059 2.06704656]

gradient= [-1.48619553e-04 -9.30408518e-06 1.57923638e-04] w = [-0.03182715 0.96478059 2.06704656] w\_new= [-0.03182864 0.9647805 2.06704814]

gradient= [-1.48403021e-04 -9.29165045e-06 1.57694671e-04] w = [-0.03182864 0.9647805 2.06704814] w\_new= [-0.03183012 0.96478041 2.06704972]

gradient= [-1.48186804e-04 -9.27923212e-06 1.57466036e-04] w = [-0.03183012 0.96478041 2.06704972] w\_new= [-0.03183161 0.96478031 2.06705129]

gradient= [-1.47970902e-04 -9.26683017e-06 1.57237732e-04] w = [-0.03183161 0.96478031 2.06705129] w\_new= [-0.03183309 0.96478022 2.06705286]

gradient= [-1.47755315e-04 -9.25444459e-06 1.57009760e-04] w = [-0.03183309 0.96478022 2.06705286] w\_new= [-0.03183456 0.96478013 2.06705443]

gradient= [-1.47540043e-04 -9.24207534e-06 1.56782118e-04] w = [-0.03183456 0.96478013 2.06705443] w\_new= [-0.03183604 0.96478004 2.067056 ]

gradient= [-1.47325084e-04 -9.22972241e-06 1.56554807e-04] w = [-0.03183604 0.96478004 2.067056 ] w\_new= [-0.03183751 0.96477994 2.06705757]

gradient= [-1.47110439e-04 -9.21738578e-06 1.56327825e-04] w = [-0.03183751 0.96477994 2.06705757] w\_new= [-0.03183898 0.96477985 2.06705913]

gradient= [-1.46896106e-04 -9.20506542e-06 1.56101172e-04] w = [-0.03183898 0.96477985 2.06705913] w\_new= [-0.03184045 0.96477976 2.06706069]

gradient= [-1.46682087e-04 -9.19276132e-06 1.55874848e-04] w = [-0.03184045 0.96477976 2.06706069] w\_new= [-0.03184192 0.96477967 2.06706225]

gradient= [-1.46468379e-04 -9.18047345e-06 1.55648852e-04] w = [-0.03184192 0.96477967 2.06706225] w\_new= [-0.03184338 0.96477958 2.06706381]

gradient= [-1.46254982e-04 -9.16820179e-06 1.55423184e-04] w = [-0.03184338 0.96477958 2.06706381] w\_new= [-0.03184485 0.96477949 2.06706536]

gradient= [-1.46041897e-04 -9.15594633e-06 1.55197843e-04] w = [-0.03184485 0.96477949 2.06706536] w\_new= [-0.03184631 0.96477939 2.06706691]

gradient= [-1.45829122e-04 -9.14370703e-06 1.54972829e-04] w = [-0.03184631 0.96477939 2.06706691] w\_new= [-0.03184776 0.9647793 2.06706846]

gradient= [-1.45616658e-04 -9.13148388e-06 1.54748142e-04] w = [-0.03184776 0.9647793 2.06706846] w\_new= [-0.03184922 0.96477921 2.06707001]

gradient= [-1.45404503e-04 -9.11927687e-06 1.54523780e-04] w = [-0.03184922 0.96477921 2.06707001] w\_new= [-0.03185067 0.96477912 2.06707156]

gradient= [-1.45192658e-04 -9.10708596e-06 1.54299744e-04] w = [-0.03185067 0.96477912 2.06707156] w\_new= [-0.03185213 0.96477903 2.0670731 ]

gradient= [-1.44981122e-04 -9.09491113e-06 1.54076033e-04] w = [-0.03185213 0.96477903 2.0670731 ] w\_new= [-0.03185358 0.96477894 2.06707464]

gradient= [-1.44769893e-04 -9.08275237e-06 1.53852646e-04] w = [-0.03185358 0.96477894 2.06707464] w\_new= [-0.03185502 0.96477885 2.06707618]

gradient= [-1.44558973e-04 -9.07060966e-06 1.53629583e-04] w = [-0.03185502 0.96477885 2.06707618] w\_new= [-0.03185647 0.96477876 2.06707771]

gradient= [-1.44348360e-04 -9.05848297e-06 1.53406843e-04] w = [-0.03185647 0.96477876 2.06707771] w\_new= [-0.03185791 0.96477867 2.06707925]

gradient= [-1.44138055e-04 -9.04637228e-06 1.53184427e-04] w = [-0.03185791 0.96477867 2.06707925] w\_new= [-0.03185935 0.96477857 2.06708078]

gradient= [-1.43928056e-04 -9.03427758e-06 1.52962333e-04] w = [-0.03185935 0.96477857 2.06708078] w\_new= [-0.03186079 0.96477848 2.06708231]

gradient= [-1.43718363e-04 -9.02219883e-06 1.52740562e-04] w = [-0.03186079 0.96477848 2.06708231] w\_new= [-0.03186223 0.96477839 2.06708384]

gradient= [-1.43508976e-04 -9.01013603e-06 1.52519112e-04] w = [-0.03186223 0.96477839 2.06708384] w\_new= [-0.03186367 0.9647783 2.06708536]

gradient= [-1.43299894e-04 -8.99808915e-06 1.52297983e-04] w = [-0.03186367 0.9647783 2.06708536] w\_new= [-0.0318651 0.96477821 2.06708689]

gradient= [-1.43091116e-04 -8.98605816e-06 1.52077175e-04] w = [-0.0318651 0.96477821 2.06708689] w\_new= [-0.03186653 0.96477812 2.06708841]

gradient= [-1.42882644e-04 -8.97404306e-06 1.51856687e-04] w = [-0.03186653 0.96477812 2.06708841] w\_new= [-0.03186796 0.96477803 2.06708992]

gradient= [-1.42674475e-04 -8.96204381e-06 1.51636518e-04] w = [-0.03186796 0.96477803 2.06708992] w\_new= [-0.03186939 0.96477795 2.06709144]

gradient= [-1.42466609e-04 -8.95006040e-06 1.51416670e-04] w = [-0.03186939 0.96477795 2.06709144] w\_new= [-0.03187081 0.96477786 2.06709295]

gradient= [-1.42259047e-04 -8.93809281e-06 1.51197140e-04] w = [-0.03187081 0.96477786 2.06709295] w\_new= [-0.03187223 0.96477777 2.06709447]

gradient= [-1.42051787e-04 -8.92614101e-06 1.50977928e-04] w = [-0.03187223 0.96477777 2.06709447] w\_new= [-0.03187365 0.96477768 2.06709598]

gradient= [-1.41844829e-04 -8.91420499e-06 1.50759034e-04] w = [-0.03187365 0.96477768 2.06709598] w\_new= [-0.03187507 0.96477759 2.06709748]

gradient= [-1.41638173e-04 -8.90228473e-06 1.50540458e-04] w = [-0.03187507 0.96477759 2.06709748] w\_new= [-0.03187649 0.9647775 2.06709899]

gradient= [-1.41431819e-04 -8.89038020e-06 1.50322199e-04] w = [-0.03187649 0.9647775 2.06709899] w\_new= [-0.0318779 0.96477741 2.06710049]

gradient= [-1.41225765e-04 -8.87849138e-06 1.50104256e-04] w = [-0.0318779 0.96477741 2.06710049] w\_new= [-0.03187932 0.96477732 2.06710199]

gradient= [-1.41020011e-04 -8.86661826e-06 1.49886630e-04] w = [-0.03187932 0.96477732 2.06710199] w\_new= [-0.03188073 0.96477723 2.06710349]

gradient= [-1.40814558e-04 -8.85476081e-06 1.49669319e-04] w = [-0.03188073 0.96477723 2.06710349] w\_new= [-0.03188213 0.96477714 2.06710499]

gradient= [-1.40609404e-04 -8.84291902e-06 1.49452323e-04] w = [-0.03188213 0.96477714 2.06710499] w\_new= [-0.03188354 0.96477706 2.06710648]

gradient= [-1.40404549e-04 -8.83109286e-06 1.49235642e-04] w = [-0.03188354 0.96477706 2.06710648] w\_new= [-0.03188494 0.96477697 2.06710798]

gradient= [-1.40199993e-04 -8.81928231e-06 1.49019275e-04] w = [-0.03188494 0.96477697 2.06710798] w\_new= [-0.03188635 0.96477688 2.06710947]

gradient= [-1.39995734e-04 -8.80748735e-06 1.48803222e-04] w = [-0.03188635 0.96477688 2.06710947] w\_new= [-0.03188775 0.96477679 2.06711095]

gradient= [-1.39791774e-04 -8.79570796e-06 1.48587482e-04] w = [-0.03188775 0.96477679 2.06711095] w\_new= [-0.03188914 0.9647767 2.06711244]

gradient= [-1.39588111e-04 -8.78394413e-06 1.48372055e-04] w = [-0.03188914 0.9647767 2.06711244] w\_new= [-0.03189054 0.96477662 2.06711392]

gradient= [-1.39384745e-04 -8.77219583e-06 1.48156941e-04] w = [-0.03189054 0.96477662 2.06711392] w\_new= [-0.03189193 0.96477653 2.06711541]

gradient= [-1.39181675e-04 -8.76046304e-06 1.47942138e-04] w = [-0.03189193 0.96477653 2.06711541] w\_new= [-0.03189332 0.96477644 2.06711689]

gradient= [-1.38978902e-04 -8.74874574e-06 1.47727647e-04] w = [-0.03189332 0.96477644 2.06711689] w\_new= [-0.03189471 0.96477635 2.06711836]

gradient= [-1.38776424e-04 -8.73704391e-06 1.47513468e-04] w = [-0.03189471 0.96477635 2.06711836] w\_new= [-0.0318961 0.96477626 2.06711984]

gradient= [-1.38574241e-04 -8.72535753e-06 1.47299598e-04] w = [-0.0318961 0.96477626 2.06711984] w\_new= [-0.03189749 0.96477618 2.06712131]

gradient= [-1.38372353e-04 -8.71368659e-06 1.47086039e-04] w = [-0.03189749 0.96477618 2.06712131] w\_new= [-0.03189887 0.96477609 2.06712278]

gradient= [-1.38170759e-04 -8.70203105e-06 1.46872790e-04] w = [-0.03189887 0.96477609 2.06712278] w\_new= [-0.03190025 0.964776 2.06712425]

gradient= [-1.37969459e-04 -8.69039091e-06 1.46659850e-04] w = [-0.03190025 0.964776 2.06712425] w\_new= [-0.03190163 0.96477592 2.06712572]

gradient= [-1.37768452e-04 -8.67876613e-06 1.46447219e-04] w = [-0.03190163 0.96477592 2.06712572] w\_new= [-0.03190301 0.96477583 2.06712718]

gradient= [-1.37567739e-04 -8.66715671e-06 1.46234896e-04] w = [-0.03190301 0.96477583 2.06712718] w\_new= [-0.03190439 0.96477574 2.06712864]

gradient= [-1.37367318e-04 -8.65556262e-06 1.46022881e-04] w = [-0.03190439 0.96477574 2.06712864] w\_new= [-0.03190576 0.96477566 2.0671301 ]

gradient= [-1.37167189e-04 -8.64398384e-06 1.45811173e-04] w = [-0.03190576 0.96477566 2.0671301 ] w\_new= [-0.03190713 0.96477557 2.06713156]

gradient= [-1.36967353e-04 -8.63242035e-06 1.45599773e-04] w = [-0.03190713 0.96477557 2.06713156] w\_new= [-0.0319085 0.96477548 2.06713302]

gradient= [-1.36767807e-04 -8.62087213e-06 1.45388679e-04] w = [-0.0319085 0.96477548 2.06713302] w\_new= [-0.03190987 0.9647754 2.06713447]

gradient= [-1.36568552e-04 -8.60933916e-06 1.45177891e-04] w = [-0.03190987 0.9647754 2.06713447] w\_new= [-0.03191124 0.96477531 2.06713592]

gradient= [-1.36369588e-04 -8.59782143e-06 1.44967409e-04] w = [-0.03191124 0.96477531 2.06713592] w\_new= [-0.0319126 0.96477523 2.06713737]

gradient= [-1.36170914e-04 -8.58631890e-06 1.44757233e-04] w = [-0.0319126 0.96477523 2.06713737] w\_new= [-0.03191396 0.96477514 2.06713882]

gradient= [-1.35972529e-04 -8.57483157e-06 1.44547361e-04] w = [-0.03191396 0.96477514 2.06713882] w\_new= [-0.03191532 0.96477505 2.06714027]

gradient= [-1.35774434e-04 -8.56335941e-06 1.44337793e-04] w = [-0.03191532 0.96477505 2.06714027] w\_new= [-0.03191668 0.96477497 2.06714171]

gradient= [-1.35576627e-04 -8.55190240e-06 1.44128529e-04] w = [-0.03191668 0.96477497 2.06714171] w\_new= [-0.03191803 0.96477488 2.06714315]

gradient= [-1.35379109e-04 -8.54046053e-06 1.43919569e-04] w = [-0.03191803 0.96477488 2.06714315] w\_new= [-0.03191939 0.9647748 2.06714459]

gradient= [-1.35181878e-04 -8.52903376e-06 1.43710912e-04] w = [-0.03191939 0.9647748 2.06714459] w\_new= [-0.03192074 0.96477471 2.06714603]

gradient= [-1.34984935e-04 -8.51762209e-06 1.43502557e-04] w = [-0.03192074 0.96477471 2.06714603] w\_new= [-0.03192209 0.96477463 2.06714746]

gradient= [-1.34788280e-04 -8.50622550e-06 1.43294505e-04] w = [-0.03192209 0.96477463 2.06714746] w\_new= [-0.03192344 0.96477454 2.0671489 ]

gradient= [-1.34591910e-04 -8.49484396e-06 1.43086754e-04] w = [-0.03192344 0.96477454 2.0671489 ] w\_new= [-0.03192478 0.96477446 2.06715033]

gradient= [-1.34395828e-04 -8.48347745e-06 1.42879305e-04] w = [-0.03192478 0.96477446 2.06715033] w\_new= [-0.03192613 0.96477437 2.06715175]

gradient= [-1.34200031e-04 -8.47212596e-06 1.42672157e-04] w = [-0.03192613 0.96477437 2.06715175] w\_new= [-0.03192747 0.96477429 2.06715318]

gradient= [-1.34004519e-04 -8.46078947e-06 1.42465308e-04] w = [-0.03192747 0.96477429 2.06715318] w\_new= [-0.03192881 0.9647742 2.06715461]

gradient= [-1.33809292e-04 -8.44946795e-06 1.42258760e-04] w = [-0.03192881 0.9647742 2.06715461] w\_new= [-0.03193015 0.96477412 2.06715603]

gradient= [-1.33614350e-04 -8.43816138e-06 1.42052512e-04] w = [-0.03193015 0.96477412 2.06715603] w\_new= [-0.03193148 0.96477403 2.06715745]

gradient= [-1.33419693e-04 -8.42686976e-06 1.41846562e-04] w = [-0.03193148 0.96477403 2.06715745] w\_new= [-0.03193282 0.96477395 2.06715887]

gradient= [-1.33225319e-04 -8.41559305e-06 1.41640912e-04] w = [-0.03193282 0.96477395 2.06715887] w\_new= [-0.03193415 0.96477387 2.06716028]

gradient= [-1.33031228e-04 -8.40433124e-06 1.41435559e-04] w = [-0.03193415 0.96477387 2.06716028] w\_new= [-0.03193548 0.96477378 2.0671617 ]

gradient= [-1.32837420e-04 -8.39308431e-06 1.41230504e-04] w = [-0.03193548 0.96477378 2.0671617 ] w\_new= [-0.03193681 0.9647737 2.06716311]

gradient= [-1.32643895e-04 -8.38185224e-06 1.41025747e-04] w = [-0.03193681 0.9647737 2.06716311] w\_new= [-0.03193813 0.96477361 2.06716452]

gradient= [-1.32450652e-04 -8.37063500e-06 1.40821287e-04] w = [-0.03193813 0.96477361 2.06716452] w\_new= [-0.03193946 0.96477353 2.06716593]

gradient= [-1.32257690e-04 -8.35943259e-06 1.40617123e-04] w = [-0.03193946 0.96477353 2.06716593] w\_new= [-0.03194078 0.96477345 2.06716734]

gradient= [-1.32065010e-04 -8.34824499e-06 1.40413255e-04] w = [-0.03194078 0.96477345 2.06716734] w\_new= [-0.0319421 0.96477336 2.06716874]

gradient= [-1.31872611e-04 -8.33707216e-06 1.40209683e-04] w = [-0.0319421 0.96477336 2.06716874] w\_new= [-0.03194342 0.96477328 2.06717014]

gradient= [-1.31680492e-04 -8.32591410e-06 1.40006406e-04] w = [-0.03194342 0.96477328 2.06717014] w\_new= [-0.03194474 0.9647732 2.06717154]

gradient= [-1.31488653e-04 -8.31477078e-06 1.39803424e-04] w = [-0.03194474 0.9647732 2.06717154] w\_new= [-0.03194605 0.96477311 2.06717294]

gradient= [-1.31297094e-04 -8.30364218e-06 1.39600736e-04] w = [-0.03194605 0.96477311 2.06717294] w\_new= [-0.03194737 0.96477303 2.06717434]

gradient= [-1.31105814e-04 -8.29252829e-06 1.39398342e-04] w = [-0.03194737 0.96477303 2.06717434] w\_new= [-0.03194868 0.96477295 2.06717573]

gradient= [-1.30914813e-04 -8.28142909e-06 1.39196242e-04] w = [-0.03194868 0.96477295 2.06717573] w\_new= [-0.03194999 0.96477286 2.06717712]

gradient= [-1.30724090e-04 -8.27034455e-06 1.38994434e-04] w = [-0.03194999 0.96477286 2.06717712] w\_new= [-0.03195129 0.96477278 2.06717851]

gradient= [-1.30533645e-04 -8.25927467e-06 1.38792920e-04] w = [-0.03195129 0.96477278 2.06717851] w\_new= [-0.0319526 0.9647727 2.0671799]

gradient= [-1.30343478e-04 -8.24821941e-06 1.38591698e-04] w = [-0.0319526 0.9647727 2.0671799] w\_new= [-0.0319539 0.96477262 2.06718129]

gradient= [-1.30153588e-04 -8.23717876e-06 1.38390767e-04] w = [-0.0319539 0.96477262 2.06718129] w\_new= [-0.0319552 0.96477253 2.06718267]

gradient= [-1.29963975e-04 -8.22615271e-06 1.38190128e-04] w = [-0.0319552 0.96477253 2.06718267] w\_new= [-0.0319565 0.96477245 2.06718405]

gradient= [-1.29774639e-04 -8.21514122e-06 1.37989780e-04] w = [-0.0319565 0.96477245 2.06718405] w\_new= [-0.0319578 0.96477237 2.06718543]

gradient= [-1.29585578e-04 -8.20414429e-06 1.37789722e-04] w = [-0.0319578 0.96477237 2.06718543] w\_new= [-0.0319591 0.96477229 2.06718681]

gradient= [-1.29396793e-04 -8.19316189e-06 1.37589955e-04] w = [-0.0319591 0.96477229 2.06718681] w\_new= [-0.03196039 0.96477221 2.06718819]

gradient= [-1.29208283e-04 -8.18219401e-06 1.37390477e-04] w = [-0.03196039 0.96477221 2.06718819] w\_new= [-0.03196168 0.96477212 2.06718956]

gradient= [-1.29020048e-04 -8.17124063e-06 1.37191288e-04] w = [-0.03196168 0.96477212 2.06718956] w\_new= [-0.03196297 0.96477204 2.06719093]

gradient= [-1.28832087e-04 -8.16030172e-06 1.36992389e-04] w = [-0.03196297 0.96477204 2.06719093] w\_new= [-0.03196426 0.96477196 2.0671923 ]

gradient= [-1.28644400e-04 -8.14937727e-06 1.36793778e-04] w = [-0.03196426 0.96477196 2.0671923 ] w\_new= [-0.03196555 0.96477188 2.06719367]

gradient= [-1.28456987e-04 -8.13846726e-06 1.36595454e-04] w = [-0.03196555 0.96477188 2.06719367] w\_new= [-0.03196683 0.9647718 2.06719503]

gradient= [-1.28269847e-04 -8.12757168e-06 1.36397419e-04] w = [-0.03196683 0.9647718 2.06719503] w\_new= [-0.03196812 0.96477172 2.0671964 ]

gradient= [-1.28082980e-04 -8.11669049e-06 1.36199671e-04] w = [-0.03196812 0.96477172 2.0671964 ] w\_new= [-0.0319694 0.96477164 2.06719776]

gradient= [-1.27896385e-04 -8.10582369e-06 1.36002209e-04] w = [-0.0319694 0.96477164 2.06719776] w\_new= [-0.03197068 0.96477155 2.06719912]

gradient= [-1.27710062e-04 -8.09497126e-06 1.35805034e-04] w = [-0.03197068 0.96477155 2.06719912] w\_new= [-0.03197195 0.96477147 2.06720048]

gradient= [-1.27524011e-04 -8.08413317e-06 1.35608144e-04] w = [-0.03197195 0.96477147 2.06720048] w\_new= [-0.03197323 0.96477139 2.06720183]

gradient= [-1.27338231e-04 -8.07330940e-06 1.35411541e-04] w = [-0.03197323 0.96477139 2.06720183] w\_new= [-0.0319745 0.96477131 2.06720319]

gradient= [-1.27152722e-04 -8.06249995e-06 1.35215222e-04] w = [-0.0319745 0.96477131 2.06720319] w\_new= [-0.03197577 0.96477123 2.06720454]

gradient= [-1.26967483e-04 -8.05170479e-06 1.35019188e-04] w = [-0.03197577 0.96477123 2.06720454] w\_new= [-0.03197704 0.96477115 2.06720589]

gradient= [-1.26782515e-04 -8.04092390e-06 1.34823438e-04] w = [-0.03197704 0.96477115 2.06720589] w\_new= [-0.03197831 0.96477107 2.06720724]

gradient= [-1.26597815e-04 -8.03015726e-06 1.34627973e-04] w = [-0.03197831 0.96477107 2.06720724] w\_new= [-0.03197958 0.96477099 2.06720859]

gradient= [-1.26413385e-04 -8.01940485e-06 1.34432790e-04] w = [-0.03197958 0.96477099 2.06720859] w\_new= [-0.03198084 0.96477091 2.06720993]

gradient= [-1.26229224e-04 -8.00866667e-06 1.34237891e-04] w = [-0.03198084 0.96477091 2.06720993] w\_new= [-0.0319821 0.96477083 2.06721127]

gradient= [-1.26045332e-04 -7.99794268e-06 1.34043274e-04] w = [-0.0319821 0.96477083 2.06721127] w\_new= [-0.03198336 0.96477075 2.06721261]

gradient= [-1.25861707e-04 -7.98723287e-06 1.33848940e-04] w = [-0.03198336 0.96477075 2.06721261] w\_new= [-0.03198462 0.96477067 2.06721395]

gradient= [-1.25678350e-04 -7.97653722e-06 1.33654887e-04] w = [-0.03198462 0.96477067 2.06721395] w\_new= [-0.03198588 0.96477059 2.06721529]

gradient= [-1.25495260e-04 -7.96585571e-06 1.33461116e-04] w = [-0.03198588 0.96477059 2.06721529] w\_new= [-0.03198713 0.96477051 2.06721662]

gradient= [-1.25312438e-04 -7.95518832e-06 1.33267626e-04] w = [-0.03198713 0.96477051 2.06721662] w\_new= [-0.03198839 0.96477043 2.06721796]

gradient= [-1.25129881e-04 -7.94453504e-06 1.33074416e-04] w = [-0.03198839 0.96477043 2.06721796] w\_new= [-0.03198964 0.96477035 2.06721929]

gradient= [-1.24947591e-04 -7.93389585e-06 1.32881487e-04] w = [-0.03198964 0.96477035 2.06721929] w\_new= [-0.03199089 0.96477027 2.06722061]

gradient= [-1.24765567e-04 -7.92327073e-06 1.32688837e-04] w = [-0.03199089 0.96477027 2.06722061] w\_new= [-0.03199213 0.96477019 2.06722194]

gradient= [-1.24583807e-04 -7.91265966e-06 1.32496467e-04] w = [-0.03199213 0.96477019 2.06722194] w\_new= [-0.03199338 0.96477011 2.06722327]

gradient= [-1.24402313e-04 -7.90206262e-06 1.32304376e-04] w = [-0.03199338 0.96477011 2.06722327] w\_new= [-0.03199462 0.96477003 2.06722459]

gradient= [-1.24221084e-04 -7.89147959e-06 1.32112563e-04] w = [-0.03199462 0.96477003 2.06722459] w\_new= [-0.03199587 0.96476996 2.06722591]

gradient= [-1.24040118e-04 -7.88091056e-06 1.31921029e-04] w = [-0.03199587 0.96476996 2.06722591] w\_new= [-0.03199711 0.96476988 2.06722723]

gradient= [-1.23859416e-04 -7.87035550e-06 1.31729772e-04] w = [-0.03199711 0.96476988 2.06722723] w\_new= [-0.03199835 0.9647698 2.06722855]

gradient= [-1.23678978e-04 -7.85981441e-06 1.31538792e-04] w = [-0.03199835 0.9647698 2.06722855] w\_new= [-0.03199958 0.96476972 2.06722986]

gradient= [-1.23498803e-04 -7.84928725e-06 1.31348090e-04] w = [-0.03199958 0.96476972 2.06722986] w\_new= [-0.03200082 0.96476964 2.06723118]

gradient= [-1.23318890e-04 -7.83877402e-06 1.31157664e-04] w = [-0.03200082 0.96476964 2.06723118] w\_new= [-0.03200205 0.96476956 2.06723249]

gradient= [-1.23139239e-04 -7.82827470e-06 1.30967514e-04] w = [-0.03200205 0.96476956 2.06723249] w\_new= [-0.03200328 0.96476948 2.0672338 ]

gradient= [-1.22959851e-04 -7.81778926e-06 1.30777640e-04] w = [-0.03200328 0.96476948 2.0672338 ] w\_new= [-0.03200451 0.96476941 2.06723511]

gradient= [-1.22780724e-04 -7.80731768e-06 1.30588041e-04] w = [-0.03200451 0.96476941 2.06723511] w\_new= [-0.03200574 0.96476933 2.06723641]

gradient= [-1.22601858e-04 -7.79685996e-06 1.30398718e-04] w = [-0.03200574 0.96476933 2.06723641] w\_new= [-0.03200697 0.96476925 2.06723772]

gradient= [-1.22423252e-04 -7.78641607e-06 1.30209668e-04] w = [-0.03200697 0.96476925 2.06723772] w\_new= [-0.03200819 0.96476917 2.06723902]

gradient= [-1.22244907e-04 -7.77598600e-06 1.30020893e-04] w = [-0.03200819 0.96476917 2.06723902] w\_new= [-0.03200941 0.96476909 2.06724032]

gradient= [-1.22066822e-04 -7.76556972e-06 1.29832392e-04] w = [-0.03200941 0.96476909 2.06724032] w\_new= [-0.03201063 0.96476902 2.06724162]

gradient= [-1.21888997e-04 -7.75516722e-06 1.29644164e-04] w = [-0.03201063 0.96476902 2.06724162] w\_new= [-0.03201185 0.96476894 2.06724291]

gradient= [-1.21711431e-04 -7.74477848e-06 1.29456209e-04] w = [-0.03201185 0.96476894 2.06724291] w\_new= [-0.03201307 0.96476886 2.06724421]

gradient= [-1.21534123e-04 -7.73440348e-06 1.29268527e-04] w = [-0.03201307 0.96476886 2.06724421] w\_new= [-0.03201428 0.96476878 2.0672455 ]

gradient= [-1.21357074e-04 -7.72404221e-06 1.29081116e-04] w = [-0.03201428 0.96476878 2.0672455 ] w\_new= [-0.0320155 0.96476871 2.06724679]

gradient= [-1.21180283e-04 -7.71369465e-06 1.28893978e-04] w = [-0.0320155 0.96476871 2.06724679] w\_new= [-0.03201671 0.96476863 2.06724808]

gradient= [-1.21003750e-04 -7.70336077e-06 1.28707111e-04] w = [-0.03201671 0.96476863 2.06724808] w\_new= [-0.03201792 0.96476855 2.06724937]

gradient= [-1.20827474e-04 -7.69304056e-06 1.28520515e-04] w = [-0.03201792 0.96476855 2.06724937] w\_new= [-0.03201913 0.96476848 2.06725065]

gradient= [-1.20651455e-04 -7.68273401e-06 1.28334189e-04] w = [-0.03201913 0.96476848 2.06725065] w\_new= [-0.03202033 0.9647684 2.06725193]

gradient= [-1.20475693e-04 -7.67244109e-06 1.28148134e-04] w = [-0.03202033 0.9647684 2.06725193] w\_new= [-0.03202154 0.96476832 2.06725322]

gradient= [-1.20300186e-04 -7.66216179e-06 1.27962348e-04] w = [-0.03202154 0.96476832 2.06725322] w\_new= [-0.03202274 0.96476825 2.0672545 ]

gradient= [-1.20124936e-04 -7.65189609e-06 1.27776832e-04] w = [-0.03202274 0.96476825 2.0672545 ] w\_new= [-0.03202394 0.96476817 2.06725577]

gradient= [-1.19949941e-04 -7.64164398e-06 1.27591585e-04] w = [-0.03202394 0.96476817 2.06725577] w\_new= [-0.03202514 0.96476809 2.06725705]

gradient= [-1.19775201e-04 -7.63140542e-06 1.27406606e-04] w = [-0.03202514 0.96476809 2.06725705] w\_new= [-0.03202634 0.96476802 2.06725832]

gradient= [-1.19600716e-04 -7.62118042e-06 1.27221896e-04] w = [-0.03202634 0.96476802 2.06725832] w\_new= [-0.03202754 0.96476794 2.0672596 ]

gradient= [-1.19426485e-04 -7.61096894e-06 1.27037454e-04] w = [-0.03202754 0.96476794 2.0672596 ] w\_new= [-0.03202873 0.96476786 2.06726087]

gradient= [-1.19252508e-04 -7.60077098e-06 1.26853279e-04] w = [-0.03202873 0.96476786 2.06726087] w\_new= [-0.03202992 0.96476779 2.06726213]

gradient= [-1.19078785e-04 -7.59058651e-06 1.26669371e-04] w = [-0.03202992 0.96476779 2.06726213] w\_new= [-0.03203111 0.96476771 2.0672634 ]

gradient= [-1.18905314e-04 -7.58041551e-06 1.26485730e-04] w = [-0.03203111 0.96476771 2.0672634 ] w\_new= [-0.0320323 0.96476764 2.06726467]

gradient= [-1.18732097e-04 -7.57025798e-06 1.26302355e-04] w = [-0.0320323 0.96476764 2.06726467] w\_new= [-0.03203349 0.96476756 2.06726593]

gradient= [-1.18559132e-04 -7.56011388e-06 1.26119246e-04] w = [-0.03203349 0.96476756 2.06726593] w\_new= [-0.03203468 0.96476749 2.06726719]

gradient= [-1.18386420e-04 -7.54998321e-06 1.25936403e-04] w = [-0.03203468 0.96476749 2.06726719] w\_new= [-0.03203586 0.96476741 2.06726845]

gradient= [-1.18213959e-04 -7.53986595e-06 1.25753824e-04] w = [-0.03203586 0.96476741 2.06726845] w\_new= [-0.03203704 0.96476733 2.06726971]

gradient= [-1.18041749e-04 -7.52976207e-06 1.25571511e-04] w = [-0.03203704 0.96476733 2.06726971] w\_new= [-0.03203822 0.96476726 2.06727096]

gradient= [-1.17869790e-04 -7.51967157e-06 1.25389462e-04] w = [-0.03203822 0.96476726 2.06727096] w\_new= [-0.0320394 0.96476718 2.06727222]

gradient= [-1.17698082e-04 -7.50959441e-06 1.25207677e-04] w = [-0.0320394 0.96476718 2.06727222] w\_new= [-0.03204058 0.96476711 2.06727347]

gradient= [-1.17526625e-04 -7.49953060e-06 1.25026155e-04] w = [-0.03204058 0.96476711 2.06727347] w\_new= [-0.03204175 0.96476703 2.06727472]

gradient= [-1.17355417e-04 -7.48948011e-06 1.24844897e-04] w = [-0.03204175 0.96476703 2.06727472] w\_new= [-0.03204293 0.96476696 2.06727597]

gradient= [-1.17184459e-04 -7.47944291e-06 1.24663902e-04] w = [-0.03204293 0.96476696 2.06727597] w\_new= [-0.0320441 0.96476688 2.06727721]

gradient= [-1.17013750e-04 -7.46941900e-06 1.24483169e-04] w = [-0.0320441 0.96476688 2.06727721] w\_new= [-0.03204527 0.96476681 2.06727846]

gradient= [-1.16843289e-04 -7.45940836e-06 1.24302698e-04] w = [-0.03204527 0.96476681 2.06727846] w\_new= [-0.03204644 0.96476673 2.0672797 ]

gradient= [-1.16673077e-04 -7.44941097e-06 1.24122488e-04] w = [-0.03204644 0.96476673 2.0672797 ] w\_new= [-0.0320476 0.96476666 2.06728094]

gradient= [-1.16503114e-04 -7.43942681e-06 1.23942541e-04] w = [-0.0320476 0.96476666 2.06728094] w\_new= [-0.03204877 0.96476659 2.06728218]

gradient= [-1.16333398e-04 -7.42945587e-06 1.23762854e-04] w = [-0.03204877 0.96476659 2.06728218] w\_new= [-0.03204993 0.96476651 2.06728342]

gradient= [-1.16163929e-04 -7.41949812e-06 1.23583427e-04] w = [-0.03204993 0.96476651 2.06728342] w\_new= [-0.03205109 0.96476644 2.06728466]

gradient= [-1.15994708e-04 -7.40955356e-06 1.23404261e-04] w = [-0.03205109 0.96476644 2.06728466] w\_new= [-0.03205225 0.96476636 2.06728589]

gradient= [-1.15825733e-04 -7.39962216e-06 1.23225355e-04] w = [-0.03205225 0.96476636 2.06728589] w\_new= [-0.03205341 0.96476629 2.06728712]

gradient= [-1.15657004e-04 -7.38970390e-06 1.23046708e-04] w = [-0.03205341 0.96476629 2.06728712] w\_new= [-0.03205457 0.96476622 2.06728835]

gradient= [-1.15488521e-04 -7.37979878e-06 1.22868320e-04] w = [-0.03205457 0.96476622 2.06728835] w\_new= [-0.03205572 0.96476614 2.06728958]

gradient= [-1.15320284e-04 -7.36990677e-06 1.22690191e-04] w = [-0.03205572 0.96476614 2.06728958] w\_new= [-0.03205688 0.96476607 2.06729081]

gradient= [-1.15152292e-04 -7.36002785e-06 1.22512320e-04] w = [-0.03205688 0.96476607 2.06729081] w\_new= [-0.03205803 0.96476599 2.06729203]

gradient= [-1.14984545e-04 -7.35016201e-06 1.22334707e-04] w = [-0.03205803 0.96476599 2.06729203] w\_new= [-0.03205918 0.96476592 2.06729326]

gradient= [-1.14817042e-04 -7.34030923e-06 1.22157351e-04] w = [-0.03205918 0.96476592 2.06729326] w\_new= [-0.03206033 0.96476585 2.06729448]

gradient= [-1.14649784e-04 -7.33046950e-06 1.21980253e-04] w = [-0.03206033 0.96476585 2.06729448] w\_new= [-0.03206147 0.96476577 2.0672957 ]

gradient= [-1.14482769e-04 -7.32064279e-06 1.21803412e-04] w = [-0.03206147 0.96476577 2.0672957 ] w\_new= [-0.03206262 0.9647657 2.06729692]

gradient= [-1.14315998e-04 -7.31082909e-06 1.21626827e-04] w = [-0.03206262 0.9647657 2.06729692] w\_new= [-0.03206376 0.96476563 2.06729813]

gradient= [-1.14149470e-04 -7.30102839e-06 1.21450498e-04] w = [-0.03206376 0.96476563 2.06729813] w\_new= [-0.0320649 0.96476555 2.06729935]

gradient= [-1.13983184e-04 -7.29124066e-06 1.21274425e-04] w = [-0.0320649 0.96476555 2.06729935] w\_new= [-0.03206604 0.96476548 2.06730056]

gradient= [-1.13817141e-04 -7.28146589e-06 1.21098607e-04] w = [-0.03206604 0.96476548 2.06730056] w\_new= [-0.03206718 0.96476541 2.06730177]

gradient= [-1.13651340e-04 -7.27170407e-06 1.20923044e-04] w = [-0.03206718 0.96476541 2.06730177] w\_new= [-0.03206832 0.96476534 2.06730298]

gradient= [-1.13485780e-04 -7.26195516e-06 1.20747735e-04] w = [-0.03206832 0.96476534 2.06730298] w\_new= [-0.03206945 0.96476526 2.06730419]

gradient= [-1.13320462e-04 -7.25221917e-06 1.20572681e-04] w = [-0.03206945 0.96476526 2.06730419] w\_new= [-0.03207059 0.96476519 2.06730539]

gradient= [-1.13155385e-04 -7.24249607e-06 1.20397881e-04] w = [-0.03207059 0.96476519 2.06730539] w\_new= [-0.03207172 0.96476512 2.0673066 ]

gradient= [-1.12990548e-04 -7.23278585e-06 1.20223334e-04] w = [-0.03207172 0.96476512 2.0673066 ] w\_new= [-0.03207285 0.96476505 2.0673078 ]

gradient= [-1.12825952e-04 -7.22308848e-06 1.20049040e-04] w = [-0.03207285 0.96476505 2.0673078 ] w\_new= [-0.03207397 0.96476497 2.067309 ]

gradient= [-1.12661595e-04 -7.21340395e-06 1.19874999e-04] w = [-0.03207397 0.96476497 2.067309 ] w\_new= [-0.0320751 0.9647649 2.0673102]

gradient= [-1.12497479e-04 -7.20373225e-06 1.19701211e-04] w = [-0.0320751 0.9647649 2.0673102] w\_new= [-0.03207623 0.96476483 2.0673114 ]

gradient= [-1.12333601e-04 -7.19407336e-06 1.19527674e-04] w = [-0.03207623 0.96476483 2.0673114 ] w\_new= [-0.03207735 0.96476476 2.06731259]

gradient= [-1.12169962e-04 -7.18442726e-06 1.19354389e-04] w = [-0.03207735 0.96476476 2.06731259] w\_new= [-0.03207847 0.96476469 2.06731379]

gradient= [-1.12006562e-04 -7.17479393e-06 1.19181356e-04] w = [-0.03207847 0.96476469 2.06731379] w\_new= [-0.03207959 0.96476461 2.06731498]

gradient= [-1.11843399e-04 -7.16517336e-06 1.19008573e-04] w = [-0.03207959 0.96476461 2.06731498] w\_new= [-0.03208071 0.96476454 2.06731617]

gradient= [-1.11680475e-04 -7.15556553e-06 1.18836041e-04] w = [-0.03208071 0.96476454 2.06731617] w\_new= [-0.03208183 0.96476447 2.06731736]

gradient= [-1.11517788e-04 -7.14597043e-06 1.18663758e-04] w = [-0.03208183 0.96476447 2.06731736] w\_new= [-0.03208294 0.9647644 2.06731854]

gradient= [-1.11355338e-04 -7.13638803e-06 1.18491726e-04] w = [-0.03208294 0.9647644 2.06731854] w\_new= [-0.03208406 0.96476433 2.06731973]

gradient= [-1.11193125e-04 -7.12681833e-06 1.18319943e-04] w = [-0.03208406 0.96476433 2.06731973] w\_new= [-0.03208517 0.96476426 2.06732091]

gradient= [-1.11031148e-04 -7.11726130e-06 1.18148410e-04] w = [-0.03208517 0.96476426 2.06732091] w\_new= [-0.03208628 0.96476419 2.06732209]

gradient= [-1.10869408e-04 -7.10771692e-06 1.17977125e-04] w = [-0.03208628 0.96476419 2.06732209] w\_new= [-0.03208739 0.96476412 2.06732327]

gradient= [-1.10707903e-04 -7.09818520e-06 1.17806088e-04] w = [-0.03208739 0.96476412 2.06732327] w\_new= [-0.03208849 0.96476404 2.06732445]

gradient= [-1.10546634e-04 -7.08866609e-06 1.17635300e-04] w = [-0.03208849 0.96476404 2.06732445] w\_new= [-0.0320896 0.96476397 2.06732563]

gradient= [-1.10385599e-04 -7.07915960e-06 1.17464759e-04] w = [-0.0320896 0.96476397 2.06732563] w\_new= [-0.0320907 0.9647639 2.0673268]

gradient= [-1.10224799e-04 -7.06966569e-06 1.17294465e-04] w = [-0.0320907 0.9647639 2.0673268] w\_new= [-0.03209181 0.96476383 2.06732797]

gradient= [-1.10064234e-04 -7.06018437e-06 1.17124419e-04] w = [-0.03209181 0.96476383 2.06732797] w\_new= [-0.03209291 0.96476376 2.06732914]

gradient= [-1.09903903e-04 -7.05071560e-06 1.16954618e-04] w = [-0.03209291 0.96476376 2.06732914] w\_new= [-0.032094 0.96476369 2.06733031]

gradient= [-1.09743805e-04 -7.04125937e-06 1.16785065e-04] w = [-0.032094 0.96476369 2.06733031] w\_new= [-0.0320951 0.96476362 2.06733148]

gradient= [-1.09583941e-04 -7.03181568e-06 1.16615757e-04] w = [-0.0320951 0.96476362 2.06733148] w\_new= [-0.0320962 0.96476355 2.06733265]

gradient= [-1.09424310e-04 -7.02238449e-06 1.16446694e-04] w = [-0.0320962 0.96476355 2.06733265] w\_new= [-0.03209729 0.96476348 2.06733381]

gradient= [-1.09264911e-04 -7.01296580e-06 1.16277877e-04] w = [-0.03209729 0.96476348 2.06733381] w\_new= [-0.03209838 0.96476341 2.06733498]

gradient= [-1.09105745e-04 -7.00355958e-06 1.16109304e-04] w = [-0.03209838 0.96476341 2.06733498] w\_new= [-0.03209948 0.96476334 2.06733614]

gradient= [-1.08946810e-04 -6.99416583e-06 1.15940976e-04] w = [-0.03209948 0.96476334 2.06733614] w\_new= [-0.03210057 0.96476327 2.0673373 ]

gradient= [-1.08788107e-04 -6.98478452e-06 1.15772892e-04] w = [-0.03210057 0.96476327 2.0673373 ] w\_new= [-0.03210165 0.9647632 2.06733845]

gradient= [-1.08629636e-04 -6.97541564e-06 1.15605052e-04] w = [-0.03210165 0.9647632 2.06733845] w\_new= [-0.03210274 0.96476313 2.06733961]

gradient= [-1.08471396e-04 -6.96605918e-06 1.15437455e-04] w = [-0.03210274 0.96476313 2.06733961] w\_new= [-0.03210382 0.96476306 2.06734076]

gradient= [-1.08313386e-04 -6.95671511e-06 1.15270101e-04] w = [-0.03210382 0.96476306 2.06734076] w\_new= [-0.03210491 0.96476299 2.06734192]

gradient= [-1.08155606e-04 -6.94738342e-06 1.15102990e-04] w = [-0.03210491 0.96476299 2.06734192] w\_new= [-0.03210599 0.96476292 2.06734307]

gradient= [-1.07998057e-04 -6.93806409e-06 1.14936121e-04] w = [-0.03210599 0.96476292 2.06734307] w\_new= [-0.03210707 0.96476285 2.06734422]

gradient= [-1.07840737e-04 -6.92875712e-06 1.14769494e-04] w = [-0.03210707 0.96476285 2.06734422] w\_new= [-0.03210815 0.96476278 2.06734536]

gradient= [-1.07683646e-04 -6.91946247e-06 1.14603108e-04] w = [-0.03210815 0.96476278 2.06734536] w\_new= [-0.03210922 0.96476271 2.06734651]

gradient= [-1.07526784e-04 -6.91018014e-06 1.14436964e-04] w = [-0.03210922 0.96476271 2.06734651] w\_new= [-0.0321103 0.96476264 2.06734766]

gradient= [-1.07370151e-04 -6.90091012e-06 1.14271061e-04] w = [-0.0321103 0.96476264 2.06734766] w\_new= [-0.03211137 0.96476258 2.0673488 ]

gradient= [-1.07213746e-04 -6.89165237e-06 1.14105399e-04] w = [-0.03211137 0.96476258 2.0673488 ] w\_new= [-0.03211245 0.96476251 2.06734994]

gradient= [-1.07057569e-04 -6.88240689e-06 1.13939976e-04] w = [-0.03211245 0.96476251 2.06734994] w\_new= [-0.03211352 0.96476244 2.06735108]

gradient= [-1.06901620e-04 -6.87317367e-06 1.13774794e-04] w = [-0.03211352 0.96476244 2.06735108] w\_new= [-0.03211459 0.96476237 2.06735222]

gradient= [-1.06745898e-04 -6.86395268e-06 1.13609851e-04] w = [-0.03211459 0.96476237 2.06735222] w\_new= [-0.03211565 0.9647623 2.06735335]

gradient= [-1.06590403e-04 -6.85474391e-06 1.13445147e-04] w = [-0.03211565 0.9647623 2.06735335] w\_new= [-0.03211672 0.96476223 2.06735449]

gradient= [-1.06435135e-04 -6.84554734e-06 1.13280682e-04] w = [-0.03211672 0.96476223 2.06735449] w\_new= [-0.03211778 0.96476216 2.06735562]

gradient= [-1.06280092e-04 -6.83636297e-06 1.13116455e-04] w = [-0.03211778 0.96476216 2.06735562] w\_new= [-0.03211885 0.96476209 2.06735675]

gradient= [-1.06125276e-04 -6.82719076e-06 1.12952467e-04] w = [-0.03211885 0.96476209 2.06735675] w\_new= [-0.03211991 0.96476203 2.06735788]

gradient= [-1.05970686e-04 -6.81803071e-06 1.12788716e-04] w = [-0.03211991 0.96476203 2.06735788] w\_new= [-0.03212097 0.96476196 2.06735901]

gradient= [-1.05816321e-04 -6.80888280e-06 1.12625203e-04] w = [-0.03212097 0.96476196 2.06735901] w\_new= [-0.03212202 0.96476189 2.06736013]

gradient= [-1.05662180e-04 -6.79974702e-06 1.12461927e-04] w = [-0.03212202 0.96476189 2.06736013] w\_new= [-0.03212308 0.96476182 2.06736126]

gradient= [-1.05508265e-04 -6.79062334e-06 1.12298888e-04] w = [-0.03212308 0.96476182 2.06736126] w\_new= [-0.03212414 0.96476175 2.06736238]

gradient= [-1.05354573e-04 -6.78151176e-06 1.12136085e-04] w = [-0.03212414 0.96476175 2.06736238] w\_new= [-0.03212519 0.96476169 2.0673635 ]

gradient= [-1.05201106e-04 -6.77241225e-06 1.11973518e-04] w = [-0.03212519 0.96476169 2.0673635 ] w\_new= [-0.03212624 0.96476162 2.06736462]

gradient= [-1.05047862e-04 -6.76332481e-06 1.11811187e-04] w = [-0.03212624 0.96476162 2.06736462] w\_new= [-0.03212729 0.96476155 2.06736574]

gradient= [-1.04894842e-04 -6.75424941e-06 1.11649092e-04] w = [-0.03212729 0.96476155 2.06736574] w\_new= [-0.03212834 0.96476148 2.06736686]

gradient= [-1.04742045e-04 -6.74518604e-06 1.11487231e-04] w = [-0.03212834 0.96476148 2.06736686] w\_new= [-0.03212939 0.96476142 2.06736797]

gradient= [-1.04589470e-04 -6.73613468e-06 1.11325605e-04] w = [-0.03212939 0.96476142 2.06736797] w\_new= [-0.03213043 0.96476135 2.06736909]

gradient= [-1.04437118e-04 -6.72709532e-06 1.11164213e-04] w = [-0.03213043 0.96476135 2.06736909] w\_new= [-0.03213148 0.96476128 2.0673702 ]

gradient= [-1.04284988e-04 -6.71806795e-06 1.11003056e-04] w = [-0.03213148 0.96476128 2.0673702 ] w\_new= [-0.03213252 0.96476121 2.06737131]

gradient= [-1.04133079e-04 -6.70905254e-06 1.10842132e-04] w = [-0.03213252 0.96476121 2.06737131] w\_new= [-0.03213356 0.96476115 2.06737242]

gradient= [-1.03981392e-04 -6.70004908e-06 1.10681441e-04] w = [-0.03213356 0.96476115 2.06737242] w\_new= [-0.0321346 0.96476108 2.06737352]

gradient= [-1.03829926e-04 -6.69105756e-06 1.10520984e-04] w = [-0.0321346 0.96476108 2.06737352] w\_new= [-0.03213564 0.96476101 2.06737463]

gradient= [-1.03678681e-04 -6.68207796e-06 1.10360759e-04] w = [-0.03213564 0.96476101 2.06737463] w\_new= [-0.03213668 0.96476095 2.06737573]

gradient= [-1.03527656e-04 -6.67311026e-06 1.10200766e-04] w = [-0.03213668 0.96476095 2.06737573] w\_new= [-0.03213771 0.96476088 2.06737683]

gradient= [-1.03376851e-04 -6.66415446e-06 1.10041006e-04] w = [-0.03213771 0.96476088 2.06737683] w\_new= [-0.03213875 0.96476081 2.06737793]

gradient= [-1.03226266e-04 -6.65521052e-06 1.09881477e-04] w = [-0.03213875 0.96476081 2.06737793] w\_new= [-0.03213978 0.96476075 2.06737903]

gradient= [-1.03075901e-04 -6.64627845e-06 1.09722179e-04] w = [-0.03213978 0.96476075 2.06737903] w\_new= [-0.03214081 0.96476068 2.06738013]

gradient= [-1.02925755e-04 -6.63735822e-06 1.09563113e-04] w = [-0.03214081 0.96476068 2.06738013] w\_new= [-0.03214184 0.96476061 2.06738123]

gradient= [-1.02775827e-04 -6.62844981e-06 1.09404277e-04] w = [-0.03214184 0.96476061 2.06738123] w\_new= [-0.03214287 0.96476055 2.06738232]

gradient= [-1.02626118e-04 -6.61955322e-06 1.09245671e-04] w = [-0.03214287 0.96476055 2.06738232] w\_new= [-0.03214389 0.96476048 2.06738341]

gradient= [-1.02476627e-04 -6.61066842e-06 1.09087295e-04] w = [-0.03214389 0.96476048 2.06738341] w\_new= [-0.03214492 0.96476042 2.0673845 ]

gradient= [-1.02327354e-04 -6.60179540e-06 1.08929149e-04] w = [-0.03214492 0.96476042 2.0673845 ] w\_new= [-0.03214594 0.96476035 2.06738559]

gradient= [-1.02178299e-04 -6.59293415e-06 1.08771233e-04] w = [-0.03214594 0.96476035 2.06738559] w\_new= [-0.03214696 0.96476028 2.06738668]

gradient= [-1.02029460e-04 -6.58408465e-06 1.08613545e-04] w = [-0.03214696 0.96476028 2.06738668] w\_new= [-0.03214798 0.96476022 2.06738777]

gradient= [-1.01880839e-04 -6.57524688e-06 1.08456086e-04] w = [-0.03214798 0.96476022 2.06738777] w\_new= [-0.032149 0.96476015 2.06738885]

gradient= [-1.01732434e-04 -6.56642084e-06 1.08298855e-04] w = [-0.032149 0.96476015 2.06738885] w\_new= [-0.03215002 0.96476009 2.06738993]

gradient= [-1.01584246e-04 -6.55760649e-06 1.08141852e-04] w = [-0.03215002 0.96476009 2.06738993] w\_new= [-0.03215104 0.96476002 2.06739102]

gradient= [-1.01436273e-04 -6.54880384e-06 1.07985077e-04] w = [-0.03215104 0.96476002 2.06739102] w\_new= [-0.03215205 0.96475996 2.06739209]

gradient= [-1.01288517e-04 -6.54001286e-06 1.07828529e-04] w = [-0.03215205 0.96475996 2.06739209] w\_new= [-0.03215306 0.96475989 2.06739317]

gradient= [-1.01140975e-04 -6.53123353e-06 1.07672209e-04] w = [-0.03215306 0.96475989 2.06739317] w\_new= [-0.03215407 0.96475982 2.06739425]

gradient= [-1.00993649e-04 -6.52246585e-06 1.07516115e-04] w = [-0.03215407 0.96475982 2.06739425] w\_new= [-0.03215508 0.96475976 2.06739533]

gradient= [-1.00846537e-04 -6.51370980e-06 1.07360247e-04] w = [-0.03215508 0.96475976 2.06739533] w\_new= [-0.03215609 0.96475969 2.0673964 ]

gradient= [-1.00699640e-04 -6.50496536e-06 1.07204605e-04] w = [-0.03215609 0.96475969 2.0673964 ] w\_new= [-0.0321571 0.96475963 2.06739747]

gradient= [-1.00552956e-04 -6.49623252e-06 1.07049189e-04] w = [-0.0321571 0.96475963 2.06739747] w\_new= [-0.03215811 0.96475956 2.06739854]

gradient= [-1.00406487e-04 -6.48751126e-06 1.06893998e-04] w = [-0.03215811 0.96475956 2.06739854] w\_new= [-0.03215911 0.9647595 2.06739961]

gradient= [-1.00260231e-04 -6.47880157e-06 1.06739032e-04] w = [-0.03215911 0.9647595 2.06739961] w\_new= [-0.03216011 0.96475943 2.06740068]

gradient= [-1.00114188e-04 -6.47010343e-06 1.06584291e-04] w = [-0.03216011 0.96475943 2.06740068] w\_new= [-0.03216111 0.96475937 2.06740174]

gradient= [-9.99683577e-05 -6.46141683e-06 1.06429775e-04] w = [-0.03216111 0.96475937 2.06740174] w\_new= [-0.03216211 0.9647593 2.06740281]

gradient= [-9.98227402e-05 -6.45274174e-06 1.06275482e-04] w = [-0.03216211 0.9647593 2.06740281] w\_new= [-0.03216311 0.96475924 2.06740387]

gradient= [-9.96773348e-05 -6.44407817e-06 1.06121413e-04] w = [-0.03216311 0.96475924 2.06740387] w\_new= [-0.03216411 0.96475918 2.06740493]

gradient= [-9.95321414e-05 -6.43542609e-06 1.05967567e-04] w = [-0.03216411 0.96475918 2.06740493] w\_new= [-0.0321651 0.96475911 2.06740599]

gradient= [-9.93871596e-05 -6.42678548e-06 1.05813945e-04] w = [-0.0321651 0.96475911 2.06740599] w\_new= [-0.0321661 0.96475905 2.06740705]

gradient= [-9.92423890e-05 -6.41815634e-06 1.05660545e-04] w = [-0.0321661 0.96475905 2.06740705] w\_new= [-0.03216709 0.96475898 2.06740811]

gradient= [-9.90978295e-05 -6.40953864e-06 1.05507368e-04] w = [-0.03216709 0.96475898 2.06740811] w\_new= [-0.03216808 0.96475892 2.06740916]

gradient= [-9.89534806e-05 -6.40093237e-06 1.05354413e-04] w = [-0.03216808 0.96475892 2.06740916] w\_new= [-0.03216907 0.96475886 2.06741021]

gradient= [-9.88093421e-05 -6.39233752e-06 1.05201680e-04] w = [-0.03216907 0.96475886 2.06741021] w\_new= [-0.03217006 0.96475879 2.06741127]

gradient= [-9.86654136e-05 -6.38375408e-06 1.05049168e-04] w = [-0.03217006 0.96475879 2.06741127] w\_new= [-0.03217104 0.96475873 2.06741232]

gradient= [-9.85216949e-05 -6.37518202e-06 1.04896877e-04] w = [-0.03217104 0.96475873 2.06741232] w\_new= [-0.03217203 0.96475866 2.06741337]

gradient= [-9.83781856e-05 -6.36662133e-06 1.04744807e-04] w = [-0.03217203 0.96475866 2.06741337] w\_new= [-0.03217301 0.9647586 2.06741441]

gradient= [-9.82348855e-05 -6.35807200e-06 1.04592957e-04] w = [-0.03217301 0.9647586 2.06741441] w\_new= [-0.032174 0.96475854 2.06741546]

gradient= [-9.80917942e-05 -6.34953401e-06 1.04441328e-04] w = [-0.032174 0.96475854 2.06741546] w\_new= [-0.03217498 0.96475847 2.0674165 ]

gradient= [-9.79489114e-05 -6.34100735e-06 1.04289919e-04] w = [-0.03217498 0.96475847 2.0674165 ] w\_new= [-0.03217596 0.96475841 2.06741755]

gradient= [-9.78062369e-05 -6.33249200e-06 1.04138729e-04] w = [-0.03217596 0.96475841 2.06741755] w\_new= [-0.03217693 0.96475835 2.06741859]

gradient= [-9.76637703e-05 -6.32398795e-06 1.03987758e-04] w = [-0.03217693 0.96475835 2.06741859] w\_new= [-0.03217791 0.96475828 2.06741963]

gradient= [-9.75215113e-05 -6.31549519e-06 1.03837006e-04] w = [-0.03217791 0.96475828 2.06741963] w\_new= [-0.03217889 0.96475822 2.06742067]

gradient= [-9.73794596e-05 -6.30701369e-06 1.03686473e-04] w = [-0.03217889 0.96475822 2.06742067] w\_new= [-0.03217986 0.96475816 2.0674217 ]

gradient= [-9.72376149e-05 -6.29854345e-06 1.03536158e-04] w = [-0.03217986 0.96475816 2.0674217 ] w\_new= [-0.03218083 0.96475809 2.06742274]

gradient= [-9.70959770e-05 -6.29008444e-06 1.03386061e-04] w = [-0.03218083 0.96475809 2.06742274] w\_new= [-0.0321818 0.96475803 2.06742377]

gradient= [-9.69545454e-05 -6.28163666e-06 1.03236182e-04] w = [-0.0321818 0.96475803 2.06742377] w\_new= [-0.03218277 0.96475797 2.0674248 ]

gradient= [-9.68133200e-05 -6.27320009e-06 1.03086520e-04] w = [-0.03218277 0.96475797 2.0674248 ] w\_new= [-0.03218374 0.96475791 2.06742584]

gradient= [-9.66723004e-05 -6.26477471e-06 1.02937075e-04] w = [-0.03218374 0.96475791 2.06742584] w\_new= [-0.03218471 0.96475784 2.06742687]

gradient= [-9.65314863e-05 -6.25636052e-06 1.02787847e-04] w = [-0.03218471 0.96475784 2.06742687] w\_new= [-0.03218567 0.96475778 2.06742789]

gradient= [-9.63908774e-05 -6.24795749e-06 1.02638835e-04] w = [-0.03218567 0.96475778 2.06742789] w\_new= [-0.03218664 0.96475772 2.06742892]

gradient= [-9.62504734e-05 -6.23956561e-06 1.02490039e-04] w = [-0.03218664 0.96475772 2.06742892] w\_new= [-0.0321876 0.96475766 2.06742994]

gradient= [-9.61102740e-05 -6.23118487e-06 1.02341459e-04] w = [-0.0321876 0.96475766 2.06742994] w\_new= [-0.03218856 0.96475759 2.06743097]

gradient= [-9.59702789e-05 -6.22281525e-06 1.02193094e-04] w = [-0.03218856 0.96475759 2.06743097] w\_new= [-0.03218952 0.96475753 2.06743199]

gradient= [-9.58304879e-05 -6.21445674e-06 1.02044945e-04] w = [-0.03218952 0.96475753 2.06743199] w\_new= [-0.03219048 0.96475747 2.06743301]

gradient= [-9.56909005e-05 -6.20610932e-06 1.01897010e-04] w = [-0.03219048 0.96475747 2.06743301] w\_new= [-0.03219144 0.96475741 2.06743403]

gradient= [-9.55515166e-05 -6.19777298e-06 1.01749290e-04] w = [-0.03219144 0.96475741 2.06743403] w\_new= [-0.03219239 0.96475734 2.06743505]

gradient= [-9.54123358e-05 -6.18944770e-06 1.01601784e-04] w = [-0.03219239 0.96475734 2.06743505] w\_new= [-0.03219335 0.96475728 2.06743606]

gradient= [-9.52733579e-05 -6.18113348e-06 1.01454491e-04] w = [-0.03219335 0.96475728 2.06743606] w\_new= [-0.0321943 0.96475722 2.06743708]

gradient= [-9.51345824e-05 -6.17283028e-06 1.01307413e-04] w = [-0.0321943 0.96475722 2.06743708] w\_new= [-0.03219525 0.96475716 2.06743809]

gradient= [-9.49960092e-05 -6.16453811e-06 1.01160547e-04] w = [-0.03219525 0.96475716 2.06743809] w\_new= [-0.0321962 0.9647571 2.0674391]

gradient= [-9.48576380e-05 -6.15625695e-06 1.01013895e-04] w = [-0.0321962 0.9647571 2.0674391] w\_new= [-0.03219715 0.96475704 2.06744011]

gradient= [-9.47194684e-05 -6.14798677e-06 1.00867455e-04] w = [-0.03219715 0.96475704 2.06744011] w\_new= [-0.03219809 0.96475697 2.06744112]

gradient= [-9.45815001e-05 -6.13972758e-06 1.00721228e-04] w = [-0.03219809 0.96475697 2.06744112] w\_new= [-0.03219904 0.96475691 2.06744213]

gradient= [-9.44437329e-05 -6.13147934e-06 1.00575212e-04] w = [-0.03219904 0.96475691 2.06744213] w\_new= [-0.03219999 0.96475685 2.06744313]

gradient= [-9.43061665e-05 -6.12324206e-06 1.00429409e-04] w = [-0.03219999 0.96475685 2.06744313] w\_new= [-0.03220093 0.96475679 2.06744414]

gradient= [-9.41688005e-05 -6.11501571e-06 1.00283816e-04] w = [-0.03220093 0.96475679 2.06744414] w\_new= [-0.03220187 0.96475673 2.06744514]

gradient= [-9.40316347e-05 -6.10680028e-06 1.00138435e-04] w = [-0.03220187 0.96475673 2.06744514] w\_new= [-0.03220281 0.96475667 2.06744614]

gradient= [-9.38946689e-05 -6.09859576e-06 9.99932646e-05] w = [-0.03220281 0.96475667 2.06744614] w\_new= [-0.03220375 0.96475661 2.06744714]

gradient= [-9.37579026e-05 -6.09040213e-06 9.98483047e-05] w = [-0.03220375 0.96475661 2.06744714] w\_new= [-0.03220469 0.96475655 2.06744814]

gradient= [-9.36213356e-05 -6.08221937e-06 9.97035549e-05] w = [-0.03220469 0.96475655 2.06744814] w\_new= [-0.03220562 0.96475649 2.06744914]

gradient= [-9.34849676e-05 -6.07404748e-06 9.95590151e-05] w = [-0.03220562 0.96475649 2.06744914] w\_new= [-0.03220656 0.96475642 2.06745013]

gradient= [-9.33487984e-05 -6.06588644e-06 9.94146848e-05] w = [-0.03220656 0.96475642 2.06745013] w\_new= [-0.03220749 0.96475636 2.06745113]

gradient= [-9.32128275e-05 -6.05773623e-06 9.92705638e-05] w = [-0.03220749 0.96475636 2.06745113] w\_new= [-0.03220842 0.9647563 2.06745212]

gradient= [-9.30770549e-05 -6.04959684e-06 9.91266517e-05] w = [-0.03220842 0.9647563 2.06745212] w\_new= [-0.03220935 0.96475624 2.06745311]

gradient= [-9.29414801e-05 -6.04146826e-06 9.89829483e-05] w = [-0.03220935 0.96475624 2.06745311] w\_new= [-0.03221028 0.96475618 2.0674541 ]

gradient= [-9.28061028e-05 -6.03335047e-06 9.88394533e-05] w = [-0.03221028 0.96475618 2.0674541 ] w\_new= [-0.03221121 0.96475612 2.06745509]

gradient= [-9.26709229e-05 -6.02524346e-06 9.86961663e-05] w = [-0.03221121 0.96475612 2.06745509] w\_new= [-0.03221214 0.96475606 2.06745608]

gradient= [-9.25359399e-05 -6.01714721e-06 9.85530871e-05] w = [-0.03221214 0.96475606 2.06745608] w\_new= [-0.03221306 0.964756 2.06745706]

gradient= [-9.24011537e-05 -6.00906172e-06 9.84102154e-05] w = [-0.03221306 0.964756 2.06745706] w\_new= [-0.03221399 0.96475594 2.06745805]

gradient= [-9.22665638e-05 -6.00098696e-06 9.82675508e-05] w = [-0.03221399 0.96475594 2.06745805] w\_new= [-0.03221491 0.96475588 2.06745903]

gradient= [-9.21321701e-05 -5.99292292e-06 9.81250930e-05] w = [-0.03221491 0.96475588 2.06745903] w\_new= [-0.03221583 0.96475582 2.06746001]

gradient= [-9.19979722e-05 -5.98486959e-06 9.79828418e-05] w = [-0.03221583 0.96475582 2.06746001] w\_new= [-0.03221675 0.96475576 2.06746099]

gradient= [-9.18639699e-05 -5.97682695e-06 9.78407969e-05] w = [-0.03221675 0.96475576 2.06746099] w\_new= [-0.03221767 0.9647557 2.06746197]

gradient= [-9.17301629e-05 -5.96879499e-06 9.76989579e-05] w = [-0.03221767 0.9647557 2.06746197] w\_new= [-0.03221859 0.96475564 2.06746295]

gradient= [-9.15965509e-05 -5.96077370e-06 9.75573246e-05] w = [-0.03221859 0.96475564 2.06746295] w\_new= [-0.0322195 0.96475558 2.06746392]

gradient= [-9.14631335e-05 -5.95276306e-06 9.74158966e-05] w = [-0.0322195 0.96475558 2.06746392] w\_new= [-0.03222042 0.96475552 2.06746489]

gradient= [-9.13299106e-05 -5.94476306e-06 9.72746737e-05] w = [-0.03222042 0.96475552 2.06746489] w\_new= [-0.03222133 0.96475546 2.06746587]

gradient= [-9.11968819e-05 -5.93677368e-06 9.71336555e-05] w = [-0.03222133 0.96475546 2.06746587] w\_new= [-0.03222224 0.9647554 2.06746684]

gradient= [-9.10640469e-05 -5.92879491e-06 9.69928418e-05] w = [-0.03222224 0.9647554 2.06746684] w\_new= [-0.03222315 0.96475535 2.06746781]

gradient= [-9.09314056e-05 -5.92082674e-06 9.68522323e-05] w = [-0.03222315 0.96475535 2.06746781] w\_new= [-0.03222406 0.96475529 2.06746878]

gradient= [-9.07989575e-05 -5.91286915e-06 9.67118267e-05] w = [-0.03222406 0.96475529 2.06746878] w\_new= [-0.03222497 0.96475523 2.06746974]

gradient= [-9.06667025e-05 -5.90492213e-06 9.65716246e-05] w = [-0.03222497 0.96475523 2.06746974] w\_new= [-0.03222588 0.96475517 2.06747071]

gradient= [-9.05346402e-05 -5.89698566e-06 9.64316258e-05] w = [-0.03222588 0.96475517 2.06747071] w\_new= [-0.03222678 0.96475511 2.06747167]

gradient= [-9.04027703e-05 -5.88905974e-06 9.62918300e-05] w = [-0.03222678 0.96475511 2.06747167] w\_new= [-0.03222769 0.96475505 2.06747264]

gradient= [-9.02710926e-05 -5.88114434e-06 9.61522369e-05] w = [-0.03222769 0.96475505 2.06747264] w\_new= [-0.03222859 0.96475499 2.0674736 ]

gradient= [-9.01396068e-05 -5.87323945e-06 9.60128462e-05] w = [-0.03222859 0.96475499 2.0674736 ] w\_new= [-0.03222949 0.96475493 2.06747456]

gradient= [-9.00083126e-05 -5.86534507e-06 9.58736576e-05] w = [-0.03222949 0.96475493 2.06747456] w\_new= [-0.03223039 0.96475487 2.06747552]

gradient= [-8.98772097e-05 -5.85746117e-06 9.57346708e-05] w = [-0.03223039 0.96475487 2.06747552] w\_new= [-0.03223129 0.96475482 2.06747648]

gradient= [-8.97462978e-05 -5.84958774e-06 9.55958856e-05] w = [-0.03223129 0.96475482 2.06747648] w\_new= [-0.03223219 0.96475476 2.06747743]

gradient= [-8.96155768e-05 -5.84172477e-06 9.54573015e-05] w = [-0.03223219 0.96475476 2.06747743] w\_new= [-0.03223308 0.9647547 2.06747839]

gradient= [-8.94850462e-05 -5.83387224e-06 9.53189184e-05] w = [-0.03223308 0.9647547 2.06747839] w\_new= [-0.03223398 0.96475464 2.06747934]

gradient= [-8.93547058e-05 -5.82603015e-06 9.51807360e-05] w = [-0.03223398 0.96475464 2.06747934] w\_new= [-0.03223487 0.96475458 2.06748029]

gradient= [-8.92245554e-05 -5.81819847e-06 9.50427538e-05] w = [-0.03223487 0.96475458 2.06748029] w\_new= [-0.03223576 0.96475452 2.06748124]

gradient= [-8.90945946e-05 -5.81037720e-06 9.49049718e-05] w = [-0.03223576 0.96475452 2.06748124] w\_new= [-0.03223666 0.96475447 2.06748219]

gradient= [-8.89648232e-05 -5.80256632e-06 9.47673895e-05] w = [-0.03223666 0.96475447 2.06748219] w\_new= [-0.03223755 0.96475441 2.06748314]

gradient= [-8.88352409e-05 -5.79476581e-06 9.46300067e-05] w = [-0.03223755 0.96475441 2.06748314] w\_new= [-0.03223843 0.96475435 2.06748408]

gradient= [-8.87058474e-05 -5.78697566e-06 9.44928231e-05] w = [-0.03223843 0.96475435 2.06748408] w\_new= [-0.03223932 0.96475429 2.06748503]

gradient= [-8.85766425e-05 -5.77919587e-06 9.43558384e-05] w = [-0.03223932 0.96475429 2.06748503] w\_new= [-0.03224021 0.96475423 2.06748597]

gradient= [-8.84476259e-05 -5.77142641e-06 9.42190523e-05] w = [-0.03224021 0.96475423 2.06748597] w\_new= [-0.03224109 0.96475418 2.06748691]

gradient= [-8.83187973e-05 -5.76366727e-06 9.40824646e-05] w = [-0.03224109 0.96475418 2.06748691] w\_new= [-0.03224197 0.96475412 2.06748786]

gradient= [-8.81901564e-05 -5.75591845e-06 9.39460748e-05] w = [-0.03224197 0.96475412 2.06748786] w\_new= [-0.03224286 0.96475406 2.0674888 ]

gradient= [-8.80617030e-05 -5.74817991e-06 9.38098829e-05] w = [-0.03224286 0.96475406 2.0674888 ] w\_new= [-0.03224374 0.964754 2.06748973]

gradient= [-8.79334367e-05 -5.74045166e-06 9.36738884e-05] w = [-0.03224374 0.964754 2.06748973] w\_new= [-0.03224462 0.96475395 2.06749067]

gradient= [-8.78053574e-05 -5.73273368e-06 9.35380910e-05] w = [-0.03224462 0.96475395 2.06749067] w\_new= [-0.03224549 0.96475389 2.06749161]

gradient= [-8.76774646e-05 -5.72502595e-06 9.34024906e-05] w = [-0.03224549 0.96475389 2.06749161] w\_new= [-0.03224637 0.96475383 2.06749254]

gradient= [-8.75497583e-05 -5.71732847e-06 9.32670868e-05] w = [-0.03224637 0.96475383 2.06749254] w\_new= [-0.03224725 0.96475377 2.06749347]

gradient= [-8.74222381e-05 -5.70964121e-06 9.31318793e-05] w = [-0.03224725 0.96475377 2.06749347] w\_new= [-0.03224812 0.96475372 2.0674944 ]

gradient= [-8.72949036e-05 -5.70196416e-06 9.29968678e-05] w = [-0.03224812 0.96475372 2.0674944 ] w\_new= [-0.03224899 0.96475366 2.06749533]

gradient= [-8.71677548e-05 -5.69429732e-06 9.28620521e-05] w = [-0.03224899 0.96475366 2.06749533] w\_new= [-0.03224987 0.9647536 2.06749626]

gradient= [-8.70407912e-05 -5.68664067e-06 9.27274318e-05] w = [-0.03224987 0.9647536 2.06749626] w\_new= [-0.03225074 0.96475355 2.06749719]

gradient= [-8.69140126e-05 -5.67899418e-06 9.25930068e-05] w = [-0.03225074 0.96475355 2.06749719] w\_new= [-0.0322516 0.96475349 2.06749812]

gradient= [-8.67874188e-05 -5.67135787e-06 9.24587766e-05] w = [-0.0322516 0.96475349 2.06749812] w\_new= [-0.03225247 0.96475343 2.06749904]

gradient= [-8.66610094e-05 -5.66373169e-06 9.23247411e-05] w = [-0.03225247 0.96475343 2.06749904] w\_new= [-0.03225334 0.96475338 2.06749996]

gradient= [-8.65347842e-05 -5.65611566e-06 9.21908999e-05] w = [-0.03225334 0.96475338 2.06749996] w\_new= [-0.0322542 0.96475332 2.06750089]

gradient= [-8.64087430e-05 -5.64850974e-06 9.20572527e-05] w = [-0.0322542 0.96475332 2.06750089] w\_new= [-0.03225507 0.96475326 2.06750181]

gradient= [-8.62828854e-05 -5.64091393e-06 9.19237994e-05] w = [-0.03225507 0.96475326 2.06750181] w\_new= [-0.03225593 0.96475321 2.06750272]

gradient= [-8.61572112e-05 -5.63332822e-06 9.17905395e-05] w = [-0.03225593 0.96475321 2.06750272] w\_new= [-0.03225679 0.96475315 2.06750364]

gradient= [-8.60317202e-05 -5.62575259e-06 9.16574728e-05] w = [-0.03225679 0.96475315 2.06750364] w\_new= [-0.03225765 0.96475309 2.06750456]

gradient= [-8.59064120e-05 -5.61818703e-06 9.15245991e-05] w = [-0.03225765 0.96475309 2.06750456] w\_new= [-0.03225851 0.96475304 2.06750547]

gradient= [-8.57812865e-05 -5.61063152e-06 9.13919180e-05] w = [-0.03225851 0.96475304 2.06750547] w\_new= [-0.03225937 0.96475298 2.06750639]

gradient= [-8.56563432e-05 -5.60308605e-06 9.12594293e-05] w = [-0.03225937 0.96475298 2.06750639] w\_new= [-0.03226023 0.96475293 2.0675073 ]

gradient= [-8.55315820e-05 -5.59555062e-06 9.11271326e-05] w = [-0.03226023 0.96475293 2.0675073 ] w\_new= [-0.03226108 0.96475287 2.06750821]

gradient= [-8.54070026e-05 -5.58802519e-06 9.09950278e-05] w = [-0.03226108 0.96475287 2.06750821] w\_new= [-0.03226194 0.96475281 2.06750912]

gradient= [-8.52826048e-05 -5.58050978e-06 9.08631146e-05] w = [-0.03226194 0.96475281 2.06750912] w\_new= [-0.03226279 0.96475276 2.06751003]

gradient= [-8.51583882e-05 -5.57300435e-06 9.07313926e-05] w = [-0.03226279 0.96475276 2.06751003] w\_new= [-0.03226364 0.9647527 2.06751094]

gradient= [-8.50343526e-05 -5.56550889e-06 9.05998615e-05] w = [-0.03226364 0.9647527 2.06751094] w\_new= [-0.03226449 0.96475265 2.06751184]

gradient= [-8.49104978e-05 -5.55802340e-06 9.04685212e-05] w = [-0.03226449 0.96475265 2.06751184] w\_new= [-0.03226534 0.96475259 2.06751275]

gradient= [-8.47868234e-05 -5.55054787e-06 9.03373713e-05] w = [-0.03226534 0.96475259 2.06751275] w\_new= [-0.03226619 0.96475254 2.06751365]

gradient= [-8.46633293e-05 -5.54308226e-06 9.02064116e-05] w = [-0.03226619 0.96475254 2.06751365] w\_new= [-0.03226703 0.96475248 2.06751455]

gradient= [-8.45400151e-05 -5.53562659e-06 9.00756417e-05] w = [-0.03226703 0.96475248 2.06751455] w\_new= [-0.03226788 0.96475242 2.06751546]

gradient= [-8.44168806e-05 -5.52818082e-06 8.99450614e-05] w = [-0.03226788 0.96475242 2.06751546] w\_new= [-0.03226872 0.96475237 2.06751635]

gradient= [-8.42939255e-05 -5.52074495e-06 8.98146705e-05] w = [-0.03226872 0.96475237 2.06751635] w\_new= [-0.03226957 0.96475231 2.06751725]

gradient= [-8.41711496e-05 -5.51331897e-06 8.96844686e-05] w = [-0.03226957 0.96475231 2.06751725] w\_new= [-0.03227041 0.96475226 2.06751815]

gradient= [-8.40485526e-05 -5.50590286e-06 8.95544555e-05] w = [-0.03227041 0.96475226 2.06751815] w\_new= [-0.03227125 0.9647522 2.06751905]

gradient= [-8.39261343e-05 -5.49849661e-06 8.94246309e-05] w = [-0.03227125 0.9647522 2.06751905] w\_new= [-0.03227209 0.96475215 2.06751994]

gradient= [-8.38038943e-05 -5.49110020e-06 8.92949945e-05] w = [-0.03227209 0.96475215 2.06751994] w\_new= [-0.03227293 0.96475209 2.06752083]

gradient= [-8.36818324e-05 -5.48371363e-06 8.91655461e-05] w = [-0.03227293 0.96475209 2.06752083] w\_new= [-0.03227376 0.96475204 2.06752172]

gradient= [-8.35599484e-05 -5.47633688e-06 8.90362853e-05] w = [-0.03227376 0.96475204 2.06752172] w\_new= [-0.0322746 0.96475198 2.06752261]

gradient= [-8.34382420e-05 -5.46896994e-06 8.89072120e-05] w = [-0.0322746 0.96475198 2.06752261] w\_new= [-0.03227543 0.96475193 2.0675235 ]

gradient= [-8.33167130e-05 -5.46161279e-06 8.87783258e-05] w = [-0.03227543 0.96475193 2.0675235 ] w\_new= [-0.03227627 0.96475188 2.06752439]

gradient= [-8.31953610e-05 -5.45426542e-06 8.86496265e-05] w = [-0.03227627 0.96475188 2.06752439] w\_new= [-0.0322771 0.96475182 2.06752528]

gradient= [-8.30741859e-05 -5.44692782e-06 8.85211137e-05] w = [-0.0322771 0.96475182 2.06752528] w\_new= [-0.03227793 0.96475177 2.06752616]

gradient= [-8.29531873e-05 -5.43959998e-06 8.83927873e-05] w = [-0.03227793 0.96475177 2.06752616] w\_new= [-0.03227876 0.96475171 2.06752705]

gradient= [-8.28323651e-05 -5.43228189e-06 8.82646470e-05] w = [-0.03227876 0.96475171 2.06752705] w\_new= [-0.03227959 0.96475166 2.06752793]

gradient= [-8.27117189e-05 -5.42497352e-06 8.81366924e-05] w = [-0.03227959 0.96475166 2.06752793] w\_new= [-0.03228041 0.9647516 2.06752881]

gradient= [-8.25912485e-05 -5.41767487e-06 8.80089234e-05] w = [-0.03228041 0.9647516 2.06752881] w\_new= [-0.03228124 0.96475155 2.06752969]

gradient= [-8.24709536e-05 -5.41038593e-06 8.78813396e-05] w = [-0.03228124 0.96475155 2.06752969] w\_new= [-0.03228206 0.9647515 2.06753057]

gradient= [-8.23508341e-05 -5.40310668e-06 8.77539408e-05] w = [-0.03228206 0.9647515 2.06753057] w\_new= [-0.03228289 0.96475144 2.06753145]

gradient= [-8.22308895e-05 -5.39583711e-06 8.76267267e-05] w = [-0.03228289 0.96475144 2.06753145] w\_new= [-0.03228371 0.96475139 2.06753232]

gradient= [-8.21111198e-05 -5.38857721e-06 8.74996970e-05] w = [-0.03228371 0.96475139 2.06753232] w\_new= [-0.03228453 0.96475133 2.0675332 ]

gradient= [-8.19915245e-05 -5.38132696e-06 8.73728515e-05] w = [-0.03228453 0.96475133 2.0675332 ] w\_new= [-0.03228535 0.96475128 2.06753407]

gradient= [-8.18721036e-05 -5.37408636e-06 8.72461899e-05] w = [-0.03228535 0.96475128 2.06753407] w\_new= [-0.03228617 0.96475123 2.06753494]

gradient= [-8.17528566e-05 -5.36685538e-06 8.71197120e-05] w = [-0.03228617 0.96475123 2.06753494] w\_new= [-0.03228699 0.96475117 2.06753582]

gradient= [-8.16337834e-05 -5.35963402e-06 8.69934174e-05] w = [-0.03228699 0.96475117 2.06753582] w\_new= [-0.0322878 0.96475112 2.06753669]

gradient= [-8.15148837e-05 -5.35242227e-06 8.68673060e-05] w = [-0.0322878 0.96475112 2.06753669] w\_new= [-0.03228862 0.96475106 2.06753755]

gradient= [-8.13961573e-05 -5.34522010e-06 8.67413774e-05] w = [-0.03228862 0.96475106 2.06753755] w\_new= [-0.03228943 0.96475101 2.06753842]

gradient= [-8.12776038e-05 -5.33802752e-06 8.66156313e-05] w = [-0.03228943 0.96475101 2.06753842] w\_new= [-0.03229025 0.96475096 2.06753929]

gradient= [-8.11592231e-05 -5.33084450e-06 8.64900676e-05] w = [-0.03229025 0.96475096 2.06753929] w\_new= [-0.03229106 0.9647509 2.06754015]

gradient= [-8.10410149e-05 -5.32367103e-06 8.63646860e-05] w = [-0.03229106 0.9647509 2.06754015] w\_new= [-0.03229187 0.96475085 2.06754102]

gradient= [-8.09229790e-05 -5.31650711e-06 8.62394861e-05] w = [-0.03229187 0.96475085 2.06754102] w\_new= [-0.03229268 0.9647508 2.06754188]

gradient= [-8.08051150e-05 -5.30935272e-06 8.61144677e-05] w = [-0.03229268 0.9647508 2.06754188] w\_new= [-0.03229349 0.96475075 2.06754274]

gradient= [-8.06874228e-05 -5.30220784e-06 8.59896306e-05] w = [-0.03229349 0.96475075 2.06754274] w\_new= [-0.03229429 0.96475069 2.0675436 ]

gradient= [-8.05699020e-05 -5.29507246e-06 8.58649745e-05] w = [-0.03229429 0.96475069 2.0675436 ] w\_new= [-0.0322951 0.96475064 2.06754446]

gradient= [-8.04525526e-05 -5.28794658e-06 8.57404991e-05] w = [-0.0322951 0.96475064 2.06754446] w\_new= [-0.0322959 0.96475059 2.06754532]

gradient= [-8.03353741e-05 -5.28083018e-06 8.56162042e-05] w = [-0.0322959 0.96475059 2.06754532] w\_new= [-0.03229671 0.96475053 2.06754617]

gradient= [-8.02183663e-05 -5.27372324e-06 8.54920895e-05] w = [-0.03229671 0.96475053 2.06754617] w\_new= [-0.03229751 0.96475048 2.06754703]

gradient= [-8.01015290e-05 -5.26662575e-06 8.53681548e-05] w = [-0.03229751 0.96475048 2.06754703] w\_new= [-0.03229831 0.96475043 2.06754788]

gradient= [-7.99848620e-05 -5.25953771e-06 8.52443997e-05] w = [-0.03229831 0.96475043 2.06754788] w\_new= [-0.03229911 0.96475038 2.06754873]

gradient= [-7.98683650e-05 -5.25245910e-06 8.51208241e-05] w = [-0.03229911 0.96475038 2.06754873] w\_new= [-0.03229991 0.96475032 2.06754958]

gradient= [-7.97520377e-05 -5.24538990e-06 8.49974276e-05] w = [-0.03229991 0.96475032 2.06754958] w\_new= [-0.03230071 0.96475027 2.06755043]

gradient= [-7.96358799e-05 -5.23833011e-06 8.48742101e-05] w = [-0.03230071 0.96475027 2.06755043] w\_new= [-0.0323015 0.96475022 2.06755128]

gradient= [-7.95198914e-05 -5.23127971e-06 8.47511711e-05] w = [-0.0323015 0.96475022 2.06755128] w\_new= [-0.0323023 0.96475017 2.06755213]

gradient= [-7.94040719e-05 -5.22423869e-06 8.46283106e-05] w = [-0.0323023 0.96475017 2.06755213] w\_new= [-0.03230309 0.96475011 2.06755298]

gradient= [-7.92884212e-05 -5.21720704e-06 8.45056282e-05] w = [-0.03230309 0.96475011 2.06755298] w\_new= [-0.03230388 0.96475006 2.06755382]

gradient= [-7.91729389e-05 -5.21018475e-06 8.43831237e-05] w = [-0.03230388 0.96475006 2.06755382] w\_new= [-0.03230468 0.96475001 2.06755467]

gradient= [-7.90576250e-05 -5.20317179e-06 8.42607967e-05] w = [-0.03230468 0.96475001 2.06755467] w\_new= [-0.03230547 0.96474996 2.06755551]

gradient= [-7.89424790e-05 -5.19616817e-06 8.41386472e-05] w = [-0.03230547 0.96474996 2.06755551] w\_new= [-0.03230626 0.96474991 2.06755635]

gradient= [-7.88275008e-05 -5.18917387e-06 8.40166747e-05] w = [-0.03230626 0.96474991 2.06755635] w\_new= [-0.03230704 0.96474985 2.06755719]

gradient= [-7.87126902e-05 -5.18218887e-06 8.38948791e-05] w = [-0.03230704 0.96474985 2.06755719] w\_new= [-0.03230783 0.9647498 2.06755803]

gradient= [-7.85980469e-05 -5.17521317e-06 8.37732600e-05] w = [-0.03230783 0.9647498 2.06755803] w\_new= [-0.03230862 0.96474975 2.06755887]

gradient= [-7.84835706e-05 -5.16824674e-06 8.36518173e-05] w = [-0.03230862 0.96474975 2.06755887] w\_new= [-0.0323094 0.9647497 2.0675597]

gradient= [-7.83692611e-05 -5.16128959e-06 8.35305507e-05] w = [-0.0323094 0.9647497 2.0675597] w\_new= [-0.03231019 0.96474965 2.06756054]

gradient= [-7.82551182e-05 -5.15434170e-06 8.34094599e-05] w = [-0.03231019 0.96474965 2.06756054] w\_new= [-0.03231097 0.9647496 2.06756137]

gradient= [-7.81411415e-05 -5.14740305e-06 8.32885446e-05] w = [-0.03231097 0.9647496 2.06756137] w\_new= [-0.03231175 0.96474954 2.06756221]

gradient= [-7.80273310e-05 -5.14047364e-06 8.31678046e-05] w = [-0.03231175 0.96474954 2.06756221] w\_new= [-0.03231253 0.96474949 2.06756304]

gradient= [-7.79136863e-05 -5.13355344e-06 8.30472397e-05] w = [-0.03231253 0.96474949 2.06756304] w\_new= [-0.03231331 0.96474944 2.06756387]

gradient= [-7.78002072e-05 -5.12664246e-06 8.29268496e-05] w = [-0.03231331 0.96474944 2.06756387] w\_new= [-0.03231409 0.96474939 2.0675647 ]

gradient= [-7.76868934e-05 -5.11974067e-06 8.28066341e-05] w = [-0.03231409 0.96474939 2.0675647 ] w\_new= [-0.03231486 0.96474934 2.06756553]

gradient= [-7.75737447e-05 -5.11284807e-06 8.26865928e-05] w = [-0.03231486 0.96474934 2.06756553] w\_new= [-0.03231564 0.96474929 2.06756635]

gradient= [-7.74607609e-05 -5.10596464e-06 8.25667256e-05] w = [-0.03231564 0.96474929 2.06756635] w\_new= [-0.03231641 0.96474924 2.06756718]

gradient= [-7.73479418e-05 -5.09909037e-06 8.24470321e-05] w = [-0.03231641 0.96474924 2.06756718] w\_new= [-0.03231719 0.96474919 2.067568 ]

gradient= [-7.72352870e-05 -5.09222525e-06 8.23275122e-05] w = [-0.03231719 0.96474919 2.067568 ] w\_new= [-0.03231796 0.96474913 2.06756883]

gradient= [-7.71227963e-05 -5.08536926e-06 8.22081656e-05] w = [-0.03231796 0.96474913 2.06756883] w\_new= [-0.03231873 0.96474908 2.06756965]

gradient= [-7.70104696e-05 -5.07852240e-06 8.20889920e-05] w = [-0.03231873 0.96474908 2.06756965] w\_new= [-0.0323195 0.96474903 2.06757047]

gradient= [-7.68983065e-05 -5.07168466e-06 8.19699912e-05] w = [-0.0323195 0.96474903 2.06757047] w\_new= [-0.03232027 0.96474898 2.06757129]

gradient= [-7.67863069e-05 -5.06485601e-06 8.18511629e-05] w = [-0.03232027 0.96474898 2.06757129] w\_new= [-0.03232104 0.96474893 2.06757211]

gradient= [-7.66744705e-05 -5.05803646e-06 8.17325069e-05] w = [-0.03232104 0.96474893 2.06757211] w\_new= [-0.0323218 0.96474888 2.06757292]

gradient= [-7.65627970e-05 -5.05122598e-06 8.16140229e-05] w = [-0.0323218 0.96474888 2.06757292] w\_new= [-0.03232257 0.96474883 2.06757374]

gradient= [-7.64512862e-05 -5.04442457e-06 8.14957108e-05] w = [-0.03232257 0.96474883 2.06757374] w\_new= [-0.03232333 0.96474878 2.06757455]

gradient= [-7.63399379e-05 -5.03763221e-06 8.13775701e-05] w = [-0.03232333 0.96474878 2.06757455] w\_new= [-0.0323241 0.96474873 2.06757537]

gradient= [-7.62287518e-05 -5.03084889e-06 8.12596007e-05] w = [-0.0323241 0.96474873 2.06757537] w\_new= [-0.03232486 0.96474868 2.06757618]

gradient= [-7.61177278e-05 -5.02407460e-06 8.11418024e-05] w = [-0.03232486 0.96474868 2.06757618] w\_new= [-0.03232562 0.96474863 2.06757699]

gradient= [-7.60068655e-05 -5.01730933e-06 8.10241748e-05] w = [-0.03232562 0.96474863 2.06757699] w\_new= [-0.03232638 0.96474858 2.0675778 ]

gradient= [-7.58961648e-05 -5.01055306e-06 8.09067178e-05] w = [-0.03232638 0.96474858 2.0675778 ] w\_new= [-0.03232714 0.96474853 2.06757861]

gradient= [-7.57856253e-05 -5.00380579e-06 8.07894311e-05] w = [-0.03232714 0.96474853 2.06757861] w\_new= [-0.0323279 0.96474848 2.06757942]

gradient= [-7.56752469e-05 -4.99706750e-06 8.06723144e-05] w = [-0.0323279 0.96474848 2.06757942] w\_new= [-0.03232866 0.96474843 2.06758023]

gradient= [-7.55650294e-05 -4.99033818e-06 8.05553675e-05] w = [-0.03232866 0.96474843 2.06758023] w\_new= [-0.03232941 0.96474838 2.06758103]

gradient= [-7.54549724e-05 -4.98361782e-06 8.04385902e-05] w = [-0.03232941 0.96474838 2.06758103] w\_new= [-0.03233017 0.96474833 2.06758184]

gradient= [-7.53450758e-05 -4.97690641e-06 8.03219822e-05] w = [-0.03233017 0.96474833 2.06758184] w\_new= [-0.03233092 0.96474828 2.06758264]

gradient= [-7.52353393e-05 -4.97020393e-06 8.02055432e-05] w = [-0.03233092 0.96474828 2.06758264] w\_new= [-0.03233167 0.96474823 2.06758344]

gradient= [-7.51257627e-05 -4.96351037e-06 8.00892731e-05] w = [-0.03233167 0.96474823 2.06758344] w\_new= [-0.03233242 0.96474818 2.06758424]

gradient= [-7.50163458e-05 -4.95682573e-06 7.99731715e-05] w = [-0.03233242 0.96474818 2.06758424] w\_new= [-0.03233317 0.96474813 2.06758504]

gradient= [-7.49070883e-05 -4.95014999e-06 7.98572383e-05] w = [-0.03233317 0.96474813 2.06758504] w\_new= [-0.03233392 0.96474808 2.06758584]

gradient= [-7.47979900e-05 -4.94348313e-06 7.97414731e-05] w = [-0.03233392 0.96474808 2.06758584] w\_new= [-0.03233467 0.96474803 2.06758664]

gradient= [-7.46890506e-05 -4.93682515e-06 7.96258758e-05] w = [-0.03233467 0.96474803 2.06758664] w\_new= [-0.03233542 0.96474798 2.06758743]

gradient= [-7.45802700e-05 -4.93017604e-06 7.95104460e-05] w = [-0.03233542 0.96474798 2.06758743] w\_new= [-0.03233616 0.96474793 2.06758823]

gradient= [-7.44716478e-05 -4.92353578e-06 7.93951836e-05] w = [-0.03233616 0.96474793 2.06758823] w\_new= [-0.03233691 0.96474788 2.06758902]

gradient= [-7.43631840e-05 -4.91690436e-06 7.92800884e-05] w = [-0.03233691 0.96474788 2.06758902] w\_new= [-0.03233765 0.96474783 2.06758982]

gradient= [-7.42548782e-05 -4.91028177e-06 7.91651599e-05] w = [-0.03233765 0.96474783 2.06758982] w\_new= [-0.03233839 0.96474779 2.06759061]

gradient= [-7.41467302e-05 -4.90366800e-06 7.90503982e-05] w = [-0.03233839 0.96474779 2.06759061] w\_new= [-0.03233913 0.96474774 2.0675914 ]

gradient= [-7.40387397e-05 -4.89706304e-06 7.89358027e-05] w = [-0.03233913 0.96474774 2.0675914 ] w\_new= [-0.03233988 0.96474769 2.06759219]

gradient= [-7.39309066e-05 -4.89046687e-06 7.88213735e-05] w = [-0.03233988 0.96474769 2.06759219] w\_new= [-0.03234061 0.96474764 2.06759298]

gradient= [-7.38232306e-05 -4.88387949e-06 7.87071101e-05] w = [-0.03234061 0.96474764 2.06759298] w\_new= [-0.03234135 0.96474759 2.06759376]

gradient= [-7.37157115e-05 -4.87730088e-06 7.85930124e-05] w = [-0.03234135 0.96474759 2.06759376] w\_new= [-0.03234209 0.96474754 2.06759455]

gradient= [-7.36083491e-05 -4.87073103e-06 7.84790801e-05] w = [-0.03234209 0.96474754 2.06759455] w\_new= [-0.03234283 0.96474749 2.06759533]

gradient= [-7.35011431e-05 -4.86416992e-06 7.83653130e-05] w = [-0.03234283 0.96474749 2.06759533] w\_new= [-0.03234356 0.96474744 2.06759612]

gradient= [-7.33940933e-05 -4.85761756e-06 7.82517109e-05] w = [-0.03234356 0.96474744 2.06759612] w\_new= [-0.03234429 0.96474739 2.0675969 ]

gradient= [-7.32871995e-05 -4.85107392e-06 7.81382734e-05] w = [-0.03234429 0.96474739 2.0675969 ] w\_new= [-0.03234503 0.96474735 2.06759768]

gradient= [-7.31804614e-05 -4.84453900e-06 7.80250004e-05] w = [-0.03234503 0.96474735 2.06759768] w\_new= [-0.03234576 0.9647473 2.06759846]

gradient= [-7.30738788e-05 -4.83801278e-06 7.79118916e-05] w = [-0.03234576 0.9647473 2.06759846] w\_new= [-0.03234649 0.96474725 2.06759924]

gradient= [-7.29674516e-05 -4.83149525e-06 7.77989468e-05] w = [-0.03234649 0.96474725 2.06759924] w\_new= [-0.03234722 0.9647472 2.06760002]

gradient= [-7.28611794e-05 -4.82498641e-06 7.76861658e-05] w = [-0.03234722 0.9647472 2.06760002] w\_new= [-0.03234795 0.96474715 2.0676008 ]

gradient= [-7.27550620e-05 -4.81848623e-06 7.75735482e-05] w = [-0.03234795 0.96474715 2.0676008 ] w\_new= [-0.03234868 0.9647471 2.06760157]

gradient= [-7.26490993e-05 -4.81199471e-06 7.74610940e-05] w = [-0.03234868 0.9647471 2.06760157] w\_new= [-0.0323494 0.96474706 2.06760235]

gradient= [-7.25432909e-05 -4.80551184e-06 7.73488028e-05] w = [-0.0323494 0.96474706 2.06760235] w\_new= [-0.03235013 0.96474701 2.06760312]

gradient= [-7.24376367e-05 -4.79903760e-06 7.72366743e-05] w = [-0.03235013 0.96474701 2.06760312] w\_new= [-0.03235085 0.96474696 2.06760389]

gradient= [-7.23321365e-05 -4.79257199e-06 7.71247085e-05] w = [-0.03235085 0.96474696 2.06760389] w\_new= [-0.03235158 0.96474691 2.06760466]

gradient= [-7.22267899e-05 -4.78611498e-06 7.70129049e-05] w = [-0.03235158 0.96474691 2.06760466] w\_new= [-0.0323523 0.96474686 2.06760543]

gradient= [-7.21215969e-05 -4.77966658e-06 7.69012635e-05] w = [-0.0323523 0.96474686 2.06760543] w\_new= [-0.03235302 0.96474682 2.0676062 ]

gradient= [-7.20165571e-05 -4.77322677e-06 7.67897839e-05] w = [-0.03235302 0.96474682 2.0676062 ] w\_new= [-0.03235374 0.96474677 2.06760697]

gradient= [-7.19116704e-05 -4.76679554e-06 7.66784659e-05] w = [-0.03235374 0.96474677 2.06760697] w\_new= [-0.03235446 0.96474672 2.06760774]

gradient= [-7.18069365e-05 -4.76037287e-06 7.65673094e-05] w = [-0.03235446 0.96474672 2.06760774] w\_new= [-0.03235518 0.96474667 2.0676085 ]

gradient= [-7.17023552e-05 -4.75395876e-06 7.64563139e-05] w = [-0.03235518 0.96474667 2.0676085 ] w\_new= [-0.03235589 0.96474663 2.06760927]

gradient= [-7.15979262e-05 -4.74755320e-06 7.63454794e-05] w = [-0.03235589 0.96474663 2.06760927] w\_new= [-0.03235661 0.96474658 2.06761003]

gradient= [-7.14936495e-05 -4.74115617e-06 7.62348056e-05] w = [-0.03235661 0.96474658 2.06761003] w\_new= [-0.03235732 0.96474653 2.06761079]

gradient= [-7.13895246e-05 -4.73476766e-06 7.61242923e-05] w = [-0.03235732 0.96474653 2.06761079] w\_new= [-0.03235804 0.96474648 2.06761155]

gradient= [-7.12855515e-05 -4.72838766e-06 7.60139391e-05] w = [-0.03235804 0.96474648 2.06761155] w\_new= [-0.03235875 0.96474644 2.06761231]

gradient= [-7.11817298e-05 -4.72201616e-06 7.59037460e-05] w = [-0.03235875 0.96474644 2.06761231] w\_new= [-0.03235946 0.96474639 2.06761307]

gradient= [-7.10780594e-05 -4.71565315e-06 7.57937126e-05] w = [-0.03235946 0.96474639 2.06761307] w\_new= [-0.03236017 0.96474634 2.06761383]

gradient= [-7.09745401e-05 -4.70929862e-06 7.56838387e-05] w = [-0.03236017 0.96474634 2.06761383] w\_new= [-0.03236088 0.9647463 2.06761459]

gradient= [-7.08711716e-05 -4.70295256e-06 7.55741241e-05] w = [-0.03236088 0.9647463 2.06761459] w\_new= [-0.03236159 0.96474625 2.06761534]

gradient= [-7.07679537e-05 -4.69661495e-06 7.54645686e-05] w = [-0.03236159 0.96474625 2.06761534] w\_new= [-0.0323623 0.9647462 2.0676161]

gradient= [-7.06648862e-05 -4.69028578e-06 7.53551719e-05] w = [-0.0323623 0.9647462 2.0676161] w\_new= [-0.03236301 0.96474615 2.06761685]

gradient= [-7.05619688e-05 -4.68396505e-06 7.52459339e-05] w = [-0.03236301 0.96474615 2.06761685] w\_new= [-0.03236371 0.96474611 2.0676176 ]

gradient= [-7.04592014e-05 -4.67765274e-06 7.51368542e-05] w = [-0.03236371 0.96474611 2.0676176 ] w\_new= [-0.03236442 0.96474606 2.06761836]

gradient= [-7.03565838e-05 -4.67134884e-06 7.50279326e-05] w = [-0.03236442 0.96474606 2.06761836] w\_new= [-0.03236512 0.96474601 2.06761911]

gradient= [-7.02541156e-05 -4.66505334e-06 7.49191689e-05] w = [-0.03236512 0.96474601 2.06761911] w\_new= [-0.03236582 0.96474597 2.06761986]

gradient= [-7.01517967e-05 -4.65876623e-06 7.48105630e-05] w = [-0.03236582 0.96474597 2.06761986] w\_new= [-0.03236652 0.96474592 2.0676206 ]

gradient= [-7.00496270e-05 -4.65248750e-06 7.47021145e-05] w = [-0.03236652 0.96474592 2.0676206 ] w\_new= [-0.03236723 0.96474587 2.06762135]

gradient= [-6.99476060e-05 -4.64621713e-06 7.45938232e-05] w = [-0.03236723 0.96474587 2.06762135] w\_new= [-0.03236792 0.96474583 2.0676221 ]

gradient= [-6.98457338e-05 -4.63995512e-06 7.44856889e-05] w = [-0.03236792 0.96474583 2.0676221 ] w\_new= [-0.03236862 0.96474578 2.06762284]

gradient= [-6.97440099e-05 -4.63370145e-06 7.43777114e-05] w = [-0.03236862 0.96474578 2.06762284] w\_new= [-0.03236932 0.96474574 2.06762359]

gradient= [-6.96424343e-05 -4.62745612e-06 7.42698904e-05] w = [-0.03236932 0.96474574 2.06762359] w\_new= [-0.03237002 0.96474569 2.06762433]

gradient= [-6.95410066e-05 -4.62121911e-06 7.41622257e-05] w = [-0.03237002 0.96474569 2.06762433] w\_new= [-0.03237071 0.96474564 2.06762507]

gradient= [-6.94397268e-05 -4.61499042e-06 7.40547172e-05] w = [-0.03237071 0.96474564 2.06762507] w\_new= [-0.03237141 0.9647456 2.06762581]

gradient= [-6.93385944e-05 -4.60877002e-06 7.39473645e-05] w = [-0.03237141 0.9647456 2.06762581] w\_new= [-0.0323721 0.96474555 2.06762655]

gradient= [-6.92376095e-05 -4.60255792e-06 7.38401674e-05] w = [-0.0323721 0.96474555 2.06762655] w\_new= [-0.03237279 0.9647455 2.06762729]

gradient= [-6.91367717e-05 -4.59635409e-06 7.37331257e-05] w = [-0.03237279 0.9647455 2.06762729] w\_new= [-0.03237348 0.96474546 2.06762803]

gradient= [-6.90360807e-05 -4.59015853e-06 7.36262393e-05] w = [-0.03237348 0.96474546 2.06762803] w\_new= [-0.03237417 0.96474541 2.06762876]

gradient= [-6.89355365e-05 -4.58397123e-06 7.35195078e-05] w = [-0.03237417 0.96474541 2.06762876] w\_new= [-0.03237486 0.96474537 2.0676295 ]

gradient= [-6.88351388e-05 -4.57779218e-06 7.34129310e-05] w = [-0.03237486 0.96474537 2.0676295 ] w\_new= [-0.03237555 0.96474532 2.06763023]

gradient= [-6.87348874e-05 -4.57162136e-06 7.33065087e-05] w = [-0.03237555 0.96474532 2.06763023] w\_new= [-0.03237624 0.96474528 2.06763096]

gradient= [-6.86347820e-05 -4.56545877e-06 7.32002408e-05] w = [-0.03237624 0.96474528 2.06763096] w\_new= [-0.03237693 0.96474523 2.0676317 ]

gradient= [-6.85348225e-05 -4.55930439e-06 7.30941269e-05] w = [-0.03237693 0.96474523 2.0676317 ] w\_new= [-0.03237761 0.96474518 2.06763243]

gradient= [-6.84350086e-05 -4.55315822e-06 7.29881668e-05] w = [-0.03237761 0.96474518 2.06763243] w\_new= [-0.0323783 0.96474514 2.06763316]

gradient= [-6.83353401e-05 -4.54702024e-06 7.28823604e-05] w = [-0.0323783 0.96474514 2.06763316] w\_new= [-0.03237898 0.96474509 2.06763389]

gradient= [-6.82358169e-05 -4.54089044e-06 7.27767073e-05] w = [-0.03237898 0.96474509 2.06763389] w\_new= [-0.03237966 0.96474505 2.06763461]

gradient= [-6.81364386e-05 -4.53476881e-06 7.26712074e-05] w = [-0.03237966 0.96474505 2.06763461] w\_new= [-0.03238034 0.964745 2.06763534]

gradient= [-6.80372052e-05 -4.52865534e-06 7.25658605e-05] w = [-0.03238034 0.964745 2.06763534] w\_new= [-0.03238102 0.96474496 2.06763607]

gradient= [-6.79381163e-05 -4.52255002e-06 7.24606663e-05] w = [-0.03238102 0.96474496 2.06763607] w\_new= [-0.0323817 0.96474491 2.06763679]

gradient= [-6.78391718e-05 -4.51645284e-06 7.23556246e-05] w = [-0.0323817 0.96474491 2.06763679] w\_new= [-0.03238238 0.96474487 2.06763751]

gradient= [-6.77403714e-05 -4.51036379e-06 7.22507352e-05] w = [-0.03238238 0.96474487 2.06763751] w\_new= [-0.03238306 0.96474482 2.06763824]

gradient= [-6.76417150e-05 -4.50428285e-06 7.21459979e-05] w = [-0.03238306 0.96474482 2.06763824] w\_new= [-0.03238373 0.96474478 2.06763896]

gradient= [-6.75432023e-05 -4.49821002e-06 7.20414124e-05] w = [-0.03238373 0.96474478 2.06763896] w\_new= [-0.03238441 0.96474473 2.06763968]

gradient= [-6.74448332e-05 -4.49214529e-06 7.19369785e-05] w = [-0.03238441 0.96474473 2.06763968] w\_new= [-0.03238508 0.96474469 2.0676404 ]

gradient= [-6.73466074e-05 -4.48608865e-06 7.18326960e-05] w = [-0.03238508 0.96474469 2.0676404 ] w\_new= [-0.03238576 0.96474464 2.06764112]

gradient= [-6.72485247e-05 -4.48004007e-06 7.17285648e-05] w = [-0.03238576 0.96474464 2.06764112] w\_new= [-0.03238643 0.9647446 2.06764183]

gradient= [-6.71505849e-05 -4.47399957e-06 7.16245844e-05] w = [-0.03238643 0.9647446 2.06764183] w\_new= [-0.0323871 0.96474455 2.06764255]

gradient= [-6.70527878e-05 -4.46796711e-06 7.15207549e-05] w = [-0.0323871 0.96474455 2.06764255] w\_new= [-0.03238777 0.96474451 2.06764326]

gradient= [-6.69551331e-05 -4.46194270e-06 7.14170758e-05] w = [-0.03238777 0.96474451 2.06764326] w\_new= [-0.03238844 0.96474446 2.06764398]

gradient= [-6.68576208e-05 -4.45592633e-06 7.13135471e-05] w = [-0.03238844 0.96474446 2.06764398] w\_new= [-0.03238911 0.96474442 2.06764469]

gradient= [-6.67602505e-05 -4.44991797e-06 7.12101685e-05] w = [-0.03238911 0.96474442 2.06764469] w\_new= [-0.03238978 0.96474437 2.0676454 ]

gradient= [-6.66630221e-05 -4.44391763e-06 7.11069397e-05] w = [-0.03238978 0.96474437 2.0676454 ] w\_new= [-0.03239044 0.96474433 2.06764612]

gradient= [-6.65659353e-05 -4.43792528e-06 7.10038606e-05] w = [-0.03239044 0.96474433 2.06764612] w\_new= [-0.03239111 0.96474428 2.06764683]

gradient= [-6.64689900e-05 -4.43194093e-06 7.09009309e-05] w = [-0.03239111 0.96474428 2.06764683] w\_new= [-0.03239177 0.96474424 2.06764753]

gradient= [-6.63721859e-05 -4.42596456e-06 7.07981505e-05] w = [-0.03239177 0.96474424 2.06764753] w\_new= [-0.03239244 0.9647442 2.06764824]

gradient= [-6.62755229e-05 -4.41999615e-06 7.06955190e-05] w = [-0.03239244 0.9647442 2.06764824] w\_new= [-0.0323931 0.96474415 2.06764895]

gradient= [-6.61790007e-05 -4.41403571e-06 7.05930364e-05] w = [-0.0323931 0.96474415 2.06764895] w\_new= [-0.03239376 0.96474411 2.06764966]

gradient= [-6.60826191e-05 -4.40808321e-06 7.04907023e-05] w = [-0.03239376 0.96474411 2.06764966] w\_new= [-0.03239442 0.96474406 2.06765036]

gradient= [-6.59863779e-05 -4.40213865e-06 7.03885166e-05] w = [-0.03239442 0.96474406 2.06765036] w\_new= [-0.03239508 0.96474402 2.06765106]

gradient= [-6.58902770e-05 -4.39620202e-06 7.02864790e-05] w = [-0.03239508 0.96474402 2.06765106] w\_new= [-0.03239574 0.96474398 2.06765177]

gradient= [-6.57943161e-05 -4.39027331e-06 7.01845894e-05] w = [-0.03239574 0.96474398 2.06765177] w\_new= [-0.0323964 0.96474393 2.06765247]

gradient= [-6.56984950e-05 -4.38435250e-06 7.00828475e-05] w = [-0.0323964 0.96474393 2.06765247] w\_new= [-0.03239706 0.96474389 2.06765317]

gradient= [-6.56028135e-05 -4.37843959e-06 6.99812530e-05] w = [-0.03239706 0.96474389 2.06765317] w\_new= [-0.03239771 0.96474384 2.06765387]

gradient= [-6.55072713e-05 -4.37253456e-06 6.98798059e-05] w = [-0.03239771 0.96474384 2.06765387] w\_new= [-0.03239837 0.9647438 2.06765457]

gradient= [-6.54118684e-05 -4.36663741e-06 6.97785059e-05] w = [-0.03239837 0.9647438 2.06765457] w\_new= [-0.03239902 0.96474376 2.06765527]

gradient= [-6.53166045e-05 -4.36074813e-06 6.96773526e-05] w = [-0.03239902 0.96474376 2.06765527] w\_new= [-0.03239968 0.96474371 2.06765596]

gradient= [-6.52214794e-05 -4.35486670e-06 6.95763461e-05] w = [-0.03239968 0.96474371 2.06765596] w\_new= [-0.03240033 0.96474367 2.06765666]

gradient= [-6.51264929e-05 -4.34899311e-06 6.94754860e-05] w = [-0.03240033 0.96474367 2.06765666] w\_new= [-0.03240098 0.96474363 2.06765735]

gradient= [-6.50316447e-05 -4.34312736e-06 6.93747721e-05] w = [-0.03240098 0.96474363 2.06765735] w\_new= [-0.03240163 0.96474358 2.06765805]

gradient= [-6.49369347e-05 -4.33726943e-06 6.92742042e-05] w = [-0.03240163 0.96474358 2.06765805] w\_new= [-0.03240228 0.96474354 2.06765874]

gradient= [-6.48423628e-05 -4.33141932e-06 6.91737821e-05] w = [-0.03240228 0.96474354 2.06765874] w\_new= [-0.03240293 0.9647435 2.06765943]

gradient= [-6.47479286e-05 -4.32557701e-06 6.90735056e-05] w = [-0.03240293 0.9647435 2.06765943] w\_new= [-0.03240358 0.96474345 2.06766012]

gradient= [-6.46536320e-05 -4.31974249e-06 6.89733745e-05] w = [-0.03240358 0.96474345 2.06766012] w\_new= [-0.03240422 0.96474341 2.06766081]

gradient= [-6.45594727e-05 -4.31391576e-06 6.88733885e-05] w = [-0.03240422 0.96474341 2.06766081] w\_new= [-0.03240487 0.96474337 2.0676615 ]

gradient= [-6.44654507e-05 -4.30809679e-06 6.87735475e-05] w = [-0.03240487 0.96474337 2.0676615 ] w\_new= [-0.03240551 0.96474332 2.06766219]

gradient= [-6.43715656e-05 -4.30228559e-06 6.86738512e-05] w = [-0.03240551 0.96474332 2.06766219] w\_new= [-0.03240616 0.96474328 2.06766288]

gradient= [-6.42778173e-05 -4.29648215e-06 6.85742995e-05] w = [-0.03240616 0.96474328 2.06766288] w\_new= [-0.0324068 0.96474324 2.06766356]

gradient= [-6.41842056e-05 -4.29068644e-06 6.84748921e-05] w = [-0.0324068 0.96474324 2.06766356] w\_new= [-0.03240744 0.96474319 2.06766425]

gradient= [-6.40907303e-05 -4.28489847e-06 6.83756288e-05] w = [-0.03240744 0.96474319 2.06766425] w\_new= [-0.03240808 0.96474315 2.06766493]

gradient= [-6.39973912e-05 -4.27911821e-06 6.82765094e-05] w = [-0.03240808 0.96474315 2.06766493] w\_new= [-0.03240872 0.96474311 2.06766561]

gradient= [-6.39041881e-05 -4.27334567e-06 6.81775337e-05] w = [-0.03240872 0.96474311 2.06766561] w\_new= [-0.03240936 0.96474307 2.06766629]

gradient= [-6.38111207e-05 -4.26758083e-06 6.80787015e-05] w = [-0.03240936 0.96474307 2.06766629] w\_new= [-0.03241 0.96474302 2.06766697]

gradient= [-6.37181889e-05 -4.26182368e-06 6.79800126e-05] w = [-0.03241 0.96474302 2.06766697] w\_new= [-0.03241064 0.96474298 2.06766765]

gradient= [-6.36253926e-05 -4.25607421e-06 6.78814668e-05] w = [-0.03241064 0.96474298 2.06766765] w\_new= [-0.03241127 0.96474294 2.06766833]

gradient= [-6.35327314e-05 -4.25033241e-06 6.77830638e-05] w = [-0.03241127 0.96474294 2.06766833] w\_new= [-0.03241191 0.9647429 2.06766901]

gradient= [-6.34402052e-05 -4.24459828e-06 6.76848035e-05] w = [-0.03241191 0.9647429 2.06766901] w\_new= [-0.03241254 0.96474285 2.06766969]

gradient= [-6.33478138e-05 -4.23887179e-06 6.75866856e-05] w = [-0.03241254 0.96474285 2.06766969] w\_new= [-0.03241317 0.96474281 2.06767036]

gradient= [-6.32555570e-05 -4.23315294e-06 6.74887100e-05] w = [-0.03241317 0.96474281 2.06767036] w\_new= [-0.03241381 0.96474277 2.06767104]

gradient= [-6.31634347e-05 -4.22744173e-06 6.73908764e-05] w = [-0.03241381 0.96474277 2.06767104] w\_new= [-0.03241444 0.96474273 2.06767171]

gradient= [-6.30714465e-05 -4.22173813e-06 6.72931847e-05] w = [-0.03241444 0.96474273 2.06767171] w\_new= [-0.03241507 0.96474268 2.06767239]

gradient= [-6.29795924e-05 -4.21604215e-06 6.71956345e-05] w = [-0.03241507 0.96474268 2.06767239] w\_new= [-0.0324157 0.96474264 2.06767306]

gradient= [-6.28878721e-05 -4.21035376e-06 6.70982258e-05] w = [-0.0324157 0.96474264 2.06767306] w\_new= [-0.03241633 0.9647426 2.06767373]

gradient= [-6.27962854e-05 -4.20467297e-06 6.70009584e-05] w = [-0.03241633 0.9647426 2.06767373] w\_new= [-0.03241696 0.96474256 2.0676744 ]

gradient= [-6.27048321e-05 -4.19899976e-06 6.69038319e-05] w = [-0.03241696 0.96474256 2.0676744 ] w\_new= [-0.03241758 0.96474252 2.06767507]

gradient= [-6.26135121e-05 -4.19333411e-06 6.68068462e-05] w = [-0.03241758 0.96474252 2.06767507] w\_new= [-0.03241821 0.96474247 2.06767574]

gradient= [-6.25223251e-05 -4.18767603e-06 6.67100012e-05] w = [-0.03241821 0.96474247 2.06767574] w\_new= [-0.03241883 0.96474243 2.0676764 ]

gradient= [-6.24312710e-05 -4.18202550e-06 6.66132965e-05] w = [-0.03241883 0.96474243 2.0676764 ] w\_new= [-0.03241946 0.96474239 2.06767707]

gradient= [-6.23403495e-05 -4.17638251e-06 6.65167320e-05] w = [-0.03241946 0.96474239 2.06767707] w\_new= [-0.03242008 0.96474235 2.06767773]

gradient= [-6.22495605e-05 -4.17074705e-06 6.64203076e-05] w = [-0.03242008 0.96474235 2.06767773] w\_new= [-0.03242071 0.96474231 2.0676784 ]

gradient= [-6.21589038e-05 -4.16511911e-06 6.63240229e-05] w = [-0.03242071 0.96474231 2.0676784 ] w\_new= [-0.03242133 0.96474227 2.06767906]

gradient= [-6.20683791e-05 -4.15949868e-06 6.62278778e-05] w = [-0.03242133 0.96474227 2.06767906] w\_new= [-0.03242195 0.96474222 2.06767972]

gradient= [-6.19779863e-05 -4.15388575e-06 6.61318721e-05] w = [-0.03242195 0.96474222 2.06767972] w\_new= [-0.03242257 0.96474218 2.06768039]

gradient= [-6.18877253e-05 -4.14828031e-06 6.60360056e-05] w = [-0.03242257 0.96474218 2.06768039] w\_new= [-0.03242319 0.96474214 2.06768105]

gradient= [-6.17975957e-05 -4.14268236e-06 6.59402780e-05] w = [-0.03242319 0.96474214 2.06768105] w\_new= [-0.0324238 0.9647421 2.0676817]

gradient= [-6.17075974e-05 -4.13709187e-06 6.58446893e-05] w = [-0.0324238 0.9647421 2.0676817] w\_new= [-0.03242442 0.96474206 2.06768236]

gradient= [-6.16177302e-05 -4.13150885e-06 6.57492391e-05] w = [-0.03242442 0.96474206 2.06768236] w\_new= [-0.03242504 0.96474202 2.06768302]

gradient= [-6.15279940e-05 -4.12593328e-06 6.56539273e-05] w = [-0.03242504 0.96474202 2.06768302] w\_new= [-0.03242565 0.96474198 2.06768368]

gradient= [-6.14383885e-05 -4.12036515e-06 6.55587536e-05] w = [-0.03242565 0.96474198 2.06768368] w\_new= [-0.03242627 0.96474193 2.06768433]

gradient= [-6.13489135e-05 -4.11480445e-06 6.54637180e-05] w = [-0.03242627 0.96474193 2.06768433] w\_new= [-0.03242688 0.96474189 2.06768499]

gradient= [-6.12595689e-05 -4.10925118e-06 6.53688201e-05] w = [-0.03242688 0.96474189 2.06768499] w\_new= [-0.03242749 0.96474185 2.06768564]

gradient= [-6.11703545e-05 -4.10370532e-06 6.52740598e-05] w = [-0.03242749 0.96474185 2.06768564] w\_new= [-0.0324281 0.96474181 2.06768629]

gradient= [-6.10812700e-05 -4.09816686e-06 6.51794368e-05] w = [-0.0324281 0.96474181 2.06768629] w\_new= [-0.03242872 0.96474177 2.06768695]

gradient= [-6.09923153e-05 -4.09263579e-06 6.50849511e-05] w = [-0.03242872 0.96474177 2.06768695] w\_new= [-0.03242933 0.96474173 2.0676876 ]

gradient= [-6.09034902e-05 -4.08711211e-06 6.49906023e-05] w = [-0.03242933 0.96474173 2.0676876 ] w\_new= [-0.03242993 0.96474169 2.06768825]

gradient= [-6.08147945e-05 -4.08159580e-06 6.48963903e-05] w = [-0.03242993 0.96474169 2.06768825] w\_new= [-0.03243054 0.96474165 2.0676889 ]

gradient= [-6.07262281e-05 -4.07608685e-06 6.48023149e-05] w = [-0.03243054 0.96474165 2.0676889 ] w\_new= [-0.03243115 0.96474161 2.06768954]

gradient= [-6.06377906e-05 -4.07058526e-06 6.47083759e-05] w = [-0.03243115 0.96474161 2.06768954] w\_new= [-0.03243176 0.96474157 2.06769019]

gradient= [-6.05494820e-05 -4.06509101e-06 6.46145730e-05] w = [-0.03243176 0.96474157 2.06769019] w\_new= [-0.03243236 0.96474152 2.06769084]

gradient= [-6.04613021e-05 -4.05960410e-06 6.45209062e-05] w = [-0.03243236 0.96474152 2.06769084] w\_new= [-0.03243297 0.96474148 2.06769148]

gradient= [-6.03732506e-05 -4.05412451e-06 6.44273751e-05] w = [-0.03243297 0.96474148 2.06769148] w\_new= [-0.03243357 0.96474144 2.06769213]

gradient= [-6.02853274e-05 -4.04865224e-06 6.43339796e-05] w = [-0.03243357 0.96474144 2.06769213] w\_new= [-0.03243417 0.9647414 2.06769277]

gradient= [-6.01975323e-05 -4.04318727e-06 6.42407196e-05] w = [-0.03243417 0.9647414 2.06769277] w\_new= [-0.03243477 0.96474136 2.06769341]

gradient= [-6.01098651e-05 -4.03772960e-06 6.41475947e-05] w = [-0.03243477 0.96474136 2.06769341] w\_new= [-0.03243538 0.96474132 2.06769405]

gradient= [-6.00223256e-05 -4.03227922e-06 6.40546048e-05] w = [-0.03243538 0.96474132 2.06769405] w\_new= [-0.03243598 0.96474128 2.06769469]

gradient= [-5.99349136e-05 -4.02683611e-06 6.39617498e-05] w = [-0.03243598 0.96474128 2.06769469] w\_new= [-0.03243658 0.96474124 2.06769533]

gradient= [-5.98476290e-05 -4.02140028e-06 6.38690293e-05] w = [-0.03243658 0.96474124 2.06769533] w\_new= [-0.03243717 0.9647412 2.06769597]

gradient= [-5.97604716e-05 -4.01597170e-06 6.37764433e-05] w = [-0.03243717 0.9647412 2.06769597] w\_new= [-0.03243777 0.96474116 2.06769661]

gradient= [-5.96734411e-05 -4.01055036e-06 6.36839915e-05] w = [-0.03243777 0.96474116 2.06769661] w\_new= [-0.03243837 0.96474112 2.06769725]

gradient= [-5.95865374e-05 -4.00513627e-06 6.35916737e-05] w = [-0.03243837 0.96474112 2.06769725] w\_new= [-0.03243896 0.96474108 2.06769788]

gradient= [-5.94997604e-05 -3.99972940e-06 6.34994898e-05] w = [-0.03243896 0.96474108 2.06769788] w\_new= [-0.03243956 0.96474104 2.06769852]

gradient= [-5.94131097e-05 -3.99432976e-06 6.34074395e-05] w = [-0.03243956 0.96474104 2.06769852] w\_new= [-0.03244015 0.964741 2.06769915]

gradient= [-5.93265853e-05 -3.98893733e-06 6.33155226e-05] w = [-0.03244015 0.964741 2.06769915] w\_new= [-0.03244075 0.96474096 2.06769979]

gradient= [-5.92401869e-05 -3.98355209e-06 6.32237390e-05] w = [-0.03244075 0.96474096 2.06769979] w\_new= [-0.03244134 0.96474092 2.06770042]

gradient= [-5.91539144e-05 -3.97817405e-06 6.31320885e-05] w = [-0.03244134 0.96474092 2.06770042] w\_new= [-0.03244193 0.96474088 2.06770105]

gradient= [-5.90677676e-05 -3.97280319e-06 6.30405708e-05] w = [-0.03244193 0.96474088 2.06770105] w\_new= [-0.03244252 0.96474084 2.06770168]

gradient= [-5.89817463e-05 -3.96743950e-06 6.29491858e-05] w = [-0.03244252 0.96474084 2.06770168] w\_new= [-0.03244311 0.9647408 2.06770231]

gradient= [-5.88958503e-05 -3.96208297e-06 6.28579333e-05] w = [-0.03244311 0.9647408 2.06770231] w\_new= [-0.0324437 0.96474076 2.06770294]

gradient= [-5.88100795e-05 -3.95673360e-06 6.27668131e-05] w = [-0.0324437 0.96474076 2.06770294] w\_new= [-0.03244429 0.96474072 2.06770356]

gradient= [-5.87244336e-05 -3.95139137e-06 6.26758249e-05] w = [-0.03244429 0.96474072 2.06770356] w\_new= [-0.03244488 0.96474068 2.06770419]

gradient= [-5.86389124e-05 -3.94605628e-06 6.25849687e-05] w = [-0.03244488 0.96474068 2.06770419] w\_new= [-0.03244546 0.96474064 2.06770482]

gradient= [-5.85535159e-05 -3.94072831e-06 6.24942442e-05] w = [-0.03244546 0.96474064 2.06770482] w\_new= [-0.03244605 0.9647406 2.06770544]

gradient= [-5.84682438e-05 -3.93540745e-06 6.24036512e-05] w = [-0.03244605 0.9647406 2.06770544] w\_new= [-0.03244663 0.96474057 2.06770607]

gradient= [-5.83830959e-05 -3.93009371e-06 6.23131896e-05] w = [-0.03244663 0.96474057 2.06770607] w\_new= [-0.03244722 0.96474053 2.06770669]

gradient= [-5.82980720e-05 -3.92478706e-06 6.22228591e-05] w = [-0.03244722 0.96474053 2.06770669] w\_new= [-0.0324478 0.96474049 2.06770731]

gradient= [-5.82131720e-05 -3.91948750e-06 6.21326595e-05] w = [-0.0324478 0.96474049 2.06770731] w\_new= [-0.03244838 0.96474045 2.06770793]

gradient= [-5.81283957e-05 -3.91419501e-06 6.20425907e-05] w = [-0.03244838 0.96474045 2.06770793] w\_new= [-0.03244896 0.96474041 2.06770855]

gradient= [-5.80437429e-05 -3.90890960e-06 6.19526525e-05] w = [-0.03244896 0.96474041 2.06770855] w\_new= [-0.03244954 0.96474037 2.06770917]

gradient= [-5.79592135e-05 -3.90363124e-06 6.18628447e-05] w = [-0.03244954 0.96474037 2.06770917] w\_new= [-0.03245012 0.96474033 2.06770979]

gradient= [-5.78748071e-05 -3.89835994e-06 6.17731671e-05] w = [-0.03245012 0.96474033 2.06770979] w\_new= [-0.0324507 0.96474029 2.06771041]

gradient= [-5.77905238e-05 -3.89309567e-06 6.16836194e-05] w = [-0.0324507 0.96474029 2.06771041] w\_new= [-0.03245128 0.96474025 2.06771103]

gradient= [-5.77063632e-05 -3.88783844e-06 6.15942016e-05] w = [-0.03245128 0.96474025 2.06771103] w\_new= [-0.03245186 0.96474021 2.06771164]

gradient= [-5.76223252e-05 -3.88258823e-06 6.15049134e-05] w = [-0.03245186 0.96474021 2.06771164] w\_new= [-0.03245243 0.96474017 2.06771226]

gradient= [-5.75384097e-05 -3.87734503e-06 6.14157547e-05] w = [-0.03245243 0.96474017 2.06771226] w\_new= [-0.03245301 0.96474014 2.06771287]

gradient= [-5.74546164e-05 -3.87210884e-06 6.13267252e-05] w = [-0.03245301 0.96474014 2.06771287] w\_new= [-0.03245358 0.9647401 2.06771348]

gradient= [-5.73709452e-05 -3.86687965e-06 6.12378248e-05] w = [-0.03245358 0.9647401 2.06771348] w\_new= [-0.03245416 0.96474006 2.0677141 ]

gradient= [-5.72873958e-05 -3.86165743e-06 6.11490533e-05] w = [-0.03245416 0.96474006 2.0677141 ] w\_new= [-0.03245473 0.96474002 2.06771471]

gradient= [-5.72039682e-05 -3.85644220e-06 6.10604104e-05] w = [-0.03245473 0.96474002 2.06771471] w\_new= [-0.0324553 0.96473998 2.06771532]

gradient= [-5.71206621e-05 -3.85123393e-06 6.09718961e-05] w = [-0.0324553 0.96473998 2.06771532] w\_new= [-0.03245587 0.96473994 2.06771593]

gradient= [-5.70374774e-05 -3.84603262e-06 6.08835100e-05] w = [-0.03245587 0.96473994 2.06771593] w\_new= [-0.03245644 0.9647399 2.06771654]

gradient= [-5.69544139e-05 -3.84083826e-06 6.07952522e-05] w = [-0.03245644 0.9647399 2.06771654] w\_new= [-0.03245701 0.96473987 2.06771715]

gradient= [-5.68714714e-05 -3.83565084e-06 6.07071222e-05] w = [-0.03245701 0.96473987 2.06771715] w\_new= [-0.03245758 0.96473983 2.06771775]

gradient= [-5.67886497e-05 -3.83047034e-06 6.06191200e-05] w = [-0.03245758 0.96473983 2.06771775] w\_new= [-0.03245815 0.96473979 2.06771836]

gradient= [-5.67059487e-05 -3.82529677e-06 6.05312454e-05] w = [-0.03245815 0.96473979 2.06771836] w\_new= [-0.03245872 0.96473975 2.06771896]

gradient= [-5.66233681e-05 -3.82013012e-06 6.04434982e-05] w = [-0.03245872 0.96473975 2.06771896] w\_new= [-0.03245928 0.96473971 2.06771957]

gradient= [-5.65409079e-05 -3.81497036e-06 6.03558782e-05] w = [-0.03245928 0.96473971 2.06771957] w\_new= [-0.03245985 0.96473967 2.06772017]

gradient= [-5.64585677e-05 -3.80981750e-06 6.02683852e-05] w = [-0.03245985 0.96473967 2.06772017] w\_new= [-0.03246041 0.96473964 2.06772077]

gradient= [-5.63763476e-05 -3.80467153e-06 6.01810191e-05] w = [-0.03246041 0.96473964 2.06772077] w\_new= [-0.03246098 0.9647396 2.06772138]

gradient= [-5.62942472e-05 -3.79953243e-06 6.00937796e-05] w = [-0.03246098 0.9647396 2.06772138] w\_new= [-0.03246154 0.96473956 2.06772198]

gradient= [-5.62122664e-05 -3.79440019e-06 6.00066666e-05] w = [-0.03246154 0.96473956 2.06772198] w\_new= [-0.0324621 0.96473952 2.06772258]

gradient= [-5.61304050e-05 -3.78927482e-06 5.99196799e-05] w = [-0.0324621 0.96473952 2.06772258] w\_new= [-0.03246266 0.96473948 2.06772318]

gradient= [-5.60486629e-05 -3.78415629e-06 5.98328192e-05] w = [-0.03246266 0.96473948 2.06772318] w\_new= [-0.03246322 0.96473945 2.06772378]

gradient= [-5.59670399e-05 -3.77904460e-06 5.97460845e-05] w = [-0.03246322 0.96473945 2.06772378] w\_new= [-0.03246378 0.96473941 2.06772437]

gradient= [-5.58855358e-05 -3.77393975e-06 5.96594756e-05] w = [-0.03246378 0.96473941 2.06772437] w\_new= [-0.03246434 0.96473937 2.06772497]

gradient= [-5.58041504e-05 -3.76884171e-06 5.95729921e-05] w = [-0.03246434 0.96473937 2.06772497] w\_new= [-0.0324649 0.96473933 2.06772557]

gradient= [-5.57228836e-05 -3.76375049e-06 5.94866341e-05] w = [-0.0324649 0.96473933 2.06772557] w\_new= [-0.03246546 0.9647393 2.06772616]

gradient= [-5.56417352e-05 -3.75866607e-06 5.94004013e-05] w = [-0.03246546 0.9647393 2.06772616] w\_new= [-0.03246601 0.96473926 2.06772675]

gradient= [-5.55607050e-05 -3.75358845e-06 5.93142934e-05] w = [-0.03246601 0.96473926 2.06772675] w\_new= [-0.03246657 0.96473922 2.06772735]

gradient= [-5.54797928e-05 -3.74851761e-06 5.92283104e-05] w = [-0.03246657 0.96473922 2.06772735] w\_new= [-0.03246712 0.96473918 2.06772794]

gradient= [-5.53989985e-05 -3.74345355e-06 5.91424521e-05] w = [-0.03246712 0.96473918 2.06772794] w\_new= [-0.03246768 0.96473915 2.06772853]

gradient= [-5.53183220e-05 -3.73839626e-06 5.90567182e-05] w = [-0.03246768 0.96473915 2.06772853] w\_new= [-0.03246823 0.96473911 2.06772912]

gradient= [-5.52377629e-05 -3.73334572e-06 5.89711086e-05] w = [-0.03246823 0.96473911 2.06772912] w\_new= [-0.03246878 0.96473907 2.06772971]

gradient= [-5.51573212e-05 -3.72830194e-06 5.88856231e-05] w = [-0.03246878 0.96473907 2.06772971] w\_new= [-0.03246933 0.96473903 2.0677303 ]

gradient= [-5.50769967e-05 -3.72326489e-06 5.88002616e-05] w = [-0.03246933 0.96473903 2.0677303 ] w\_new= [-0.03246988 0.964739 2.06773089]

gradient= [-5.49967892e-05 -3.71823458e-06 5.87150238e-05] w = [-0.03246988 0.964739 2.06773089] w\_new= [-0.03247043 0.96473896 2.06773148]

gradient= [-5.49166985e-05 -3.71321100e-06 5.86299095e-05] w = [-0.03247043 0.96473896 2.06773148] w\_new= [-0.03247098 0.96473892 2.06773206]

gradient= [-5.48367245e-05 -3.70819412e-06 5.85449187e-05] w = [-0.03247098 0.96473892 2.06773206] w\_new= [-0.03247153 0.96473889 2.06773265]

gradient= [-5.47568671e-05 -3.70318395e-06 5.84600510e-05] w = [-0.03247153 0.96473889 2.06773265] w\_new= [-0.03247208 0.96473885 2.06773323]

gradient= [-5.46771259e-05 -3.69818048e-06 5.83753064e-05] w = [-0.03247208 0.96473885 2.06773323] w\_new= [-0.03247263 0.96473881 2.06773382]

gradient= [-5.45975009e-05 -3.69318370e-06 5.82906846e-05] w = [-0.03247263 0.96473881 2.06773382] w\_new= [-0.03247317 0.96473877 2.0677344 ]

gradient= [-5.45179920e-05 -3.68819360e-06 5.82061856e-05] w = [-0.03247317 0.96473877 2.0677344 ] w\_new= [-0.03247372 0.96473874 2.06773498]

gradient= [-5.44385988e-05 -3.68321016e-06 5.81218090e-05] w = [-0.03247372 0.96473874 2.06773498] w\_new= [-0.03247426 0.9647387 2.06773556]

gradient= [-5.43593213e-05 -3.67823339e-06 5.80375547e-05] w = [-0.03247426 0.9647387 2.06773556] w\_new= [-0.03247481 0.96473866 2.06773614]

gradient= [-5.42801593e-05 -3.67326327e-06 5.79534226e-05] w = [-0.03247481 0.96473866 2.06773614] w\_new= [-0.03247535 0.96473863 2.06773672]

gradient= [-5.42011126e-05 -3.66829980e-06 5.78694124e-05] w = [-0.03247535 0.96473863 2.06773672] w\_new= [-0.03247589 0.96473859 2.0677373 ]

gradient= [-5.41221811e-05 -3.66334296e-06 5.77855240e-05] w = [-0.03247589 0.96473859 2.0677373 ] w\_new= [-0.03247643 0.96473855 2.06773788]

gradient= [-5.40433645e-05 -3.65839274e-06 5.77017573e-05] w = [-0.03247643 0.96473855 2.06773788] w\_new= [-0.03247697 0.96473852 2.06773845]

gradient= [-5.39646628e-05 -3.65344915e-06 5.76181120e-05] w = [-0.03247697 0.96473852 2.06773845] w\_new= [-0.03247751 0.96473848 2.06773903]

gradient= [-5.38860757e-05 -3.64851216e-06 5.75345879e-05] w = [-0.03247751 0.96473848 2.06773903] w\_new= [-0.03247805 0.96473844 2.06773961]

gradient= [-5.38076031e-05 -3.64358177e-06 5.74511849e-05] w = [-0.03247805 0.96473844 2.06773961] w\_new= [-0.03247859 0.96473841 2.06774018]

gradient= [-5.37292449e-05 -3.63865798e-06 5.73679028e-05] w = [-0.03247859 0.96473841 2.06774018] w\_new= [-0.03247913 0.96473837 2.06774075]

gradient= [-5.36510007e-05 -3.63374076e-06 5.72847415e-05] w = [-0.03247913 0.96473837 2.06774075] w\_new= [-0.03247966 0.96473834 2.06774133]

gradient= [-5.35728706e-05 -3.62883012e-06 5.72017007e-05] w = [-0.03247966 0.96473834 2.06774133] w\_new= [-0.0324802 0.9647383 2.0677419]

gradient= [-5.34948543e-05 -3.62392605e-06 5.71187803e-05] w = [-0.0324802 0.9647383 2.0677419] w\_new= [-0.03248073 0.96473826 2.06774247]

gradient= [-5.34169516e-05 -3.61902854e-06 5.70359801e-05] w = [-0.03248073 0.96473826 2.06774247] w\_new= [-0.03248127 0.96473823 2.06774304]

gradient= [-5.33391624e-05 -3.61413757e-06 5.69533000e-05] w = [-0.03248127 0.96473823 2.06774304] w\_new= [-0.0324818 0.96473819 2.06774361]

gradient= [-5.32614865e-05 -3.60925314e-06 5.68707397e-05] w = [-0.0324818 0.96473819 2.06774361] w\_new= [-0.03248233 0.96473815 2.06774418]

gradient= [-5.31839238e-05 -3.60437524e-06 5.67882991e-05] w = [-0.03248233 0.96473815 2.06774418] w\_new= [-0.03248287 0.96473812 2.06774475]

gradient= [-5.31064741e-05 -3.59950387e-06 5.67059780e-05] w = [-0.03248287 0.96473812 2.06774475] w\_new= [-0.0324834 0.96473808 2.06774531]

gradient= [-5.30291372e-05 -3.59463900e-06 5.66237762e-05] w = [-0.0324834 0.96473808 2.06774531] w\_new= [-0.03248393 0.96473805 2.06774588]

gradient= [-5.29519130e-05 -3.58978065e-06 5.65416936e-05] w = [-0.03248393 0.96473805 2.06774588] w\_new= [-0.03248446 0.96473801 2.06774645]

gradient= [-5.28748012e-05 -3.58492879e-06 5.64597300e-05] w = [-0.03248446 0.96473801 2.06774645] w\_new= [-0.03248499 0.96473797 2.06774701]

gradient= [-5.27978018e-05 -3.58008341e-06 5.63778852e-05] w = [-0.03248499 0.96473797 2.06774701] w\_new= [-0.03248551 0.96473794 2.06774757]

gradient= [-5.27209146e-05 -3.57524452e-06 5.62961591e-05] w = [-0.03248551 0.96473794 2.06774757] w\_new= [-0.03248604 0.9647379 2.06774814]

gradient= [-5.26441393e-05 -3.57041210e-06 5.62145514e-05] w = [-0.03248604 0.9647379 2.06774814] w\_new= [-0.03248657 0.96473787 2.0677487 ]

gradient= [-5.25674759e-05 -3.56558614e-06 5.61330621e-05] w = [-0.03248657 0.96473787 2.0677487 ] w\_new= [-0.03248709 0.96473783 2.06774926]

gradient= [-5.24909242e-05 -3.56076663e-06 5.60516909e-05] w = [-0.03248709 0.96473783 2.06774926] w\_new= [-0.03248762 0.9647378 2.06774982]

gradient= [-5.24144840e-05 -3.55595357e-06 5.59704376e-05] w = [-0.03248762 0.9647378 2.06774982] w\_new= [-0.03248814 0.96473776 2.06775038]

gradient= [-5.23381552e-05 -3.55114695e-06 5.58893021e-05] w = [-0.03248814 0.96473776 2.06775038] w\_new= [-0.03248866 0.96473773 2.06775094]

gradient= [-5.22619376e-05 -3.54634675e-06 5.58082843e-05] w = [-0.03248866 0.96473773 2.06775094] w\_new= [-0.03248919 0.96473769 2.0677515 ]

gradient= [-5.21858309e-05 -3.54155297e-06 5.57273839e-05] w = [-0.03248919 0.96473769 2.0677515 ] w\_new= [-0.03248971 0.96473765 2.06775206]

gradient= [-5.21098352e-05 -3.53676561e-06 5.56466008e-05] w = [-0.03248971 0.96473765 2.06775206] w\_new= [-0.03249023 0.96473762 2.06775261]

gradient= [-5.20339501e-05 -3.53198465e-06 5.55659348e-05] w = [-0.03249023 0.96473762 2.06775261] w\_new= [-0.03249075 0.96473758 2.06775317]

gradient= [-5.19581756e-05 -3.52721008e-06 5.54853857e-05] w = [-0.03249075 0.96473758 2.06775317] w\_new= [-0.03249127 0.96473755 2.06775372]

gradient= [-5.18825115e-05 -3.52244189e-06 5.54049534e-05] w = [-0.03249127 0.96473755 2.06775372] w\_new= [-0.03249179 0.96473751 2.06775428]

gradient= [-5.18069576e-05 -3.51768009e-06 5.53246377e-05] w = [-0.03249179 0.96473751 2.06775428] w\_new= [-0.03249231 0.96473748 2.06775483]

gradient= [-5.17315138e-05 -3.51292465e-06 5.52444385e-05] w = [-0.03249231 0.96473748 2.06775483] w\_new= [-0.03249282 0.96473744 2.06775538]

gradient= [-5.16561799e-05 -3.50817558e-06 5.51643555e-05] w = [-0.03249282 0.96473744 2.06775538] w\_new= [-0.03249334 0.96473741 2.06775593]

gradient= [-5.15809557e-05 -3.50343286e-06 5.50843885e-05] w = [-0.03249334 0.96473741 2.06775593] w\_new= [-0.03249386 0.96473737 2.06775648]

gradient= [-5.15058411e-05 -3.49869648e-06 5.50045376e-05] w = [-0.03249386 0.96473737 2.06775648] w\_new= [-0.03249437 0.96473734 2.06775703]

gradient= [-5.14308359e-05 -3.49396643e-06 5.49248023e-05] w = [-0.03249437 0.96473734 2.06775703] w\_new= [-0.03249489 0.9647373 2.06775758]

gradient= [-5.13559400e-05 -3.48924272e-06 5.48451827e-05] w = [-0.03249489 0.9647373 2.06775758] w\_new= [-0.0324954 0.96473727 2.06775813]

gradient= [-5.12811532e-05 -3.48452532e-06 5.47656785e-05] w = [-0.0324954 0.96473727 2.06775813] w\_new= [-0.03249591 0.96473723 2.06775868]

gradient= [-5.12064753e-05 -3.47981423e-06 5.46862895e-05] w = [-0.03249591 0.96473723 2.06775868] w\_new= [-0.03249642 0.9647372 2.06775923]

gradient= [-5.11319062e-05 -3.47510945e-06 5.46070157e-05] w = [-0.03249642 0.9647372 2.06775923] w\_new= [-0.03249694 0.96473716 2.06775977]

gradient= [-5.10574458e-05 -3.47041095e-06 5.45278567e-05] w = [-0.03249694 0.96473716 2.06775977] w\_new= [-0.03249745 0.96473713 2.06776032]

gradient= [-5.09830938e-05 -3.46571875e-06 5.44488125e-05] w = [-0.03249745 0.96473713 2.06776032] w\_new= [-0.03249796 0.96473709 2.06776086]

gradient= [-5.09088501e-05 -3.46103282e-06 5.43698829e-05] w = [-0.03249796 0.96473709 2.06776086] w\_new= [-0.03249847 0.96473706 2.06776141]

gradient= [-5.08347146e-05 -3.45635316e-06 5.42910677e-05] w = [-0.03249847 0.96473706 2.06776141] w\_new= [-0.03249897 0.96473702 2.06776195]

gradient= [-5.07606870e-05 -3.45167976e-06 5.42123668e-05] w = [-0.03249897 0.96473702 2.06776195] w\_new= [-0.03249948 0.96473699 2.06776249]

gradient= [-5.06867673e-05 -3.44701261e-06 5.41337800e-05] w = [-0.03249948 0.96473699 2.06776249] w\_new= [-0.03249999 0.96473696 2.06776303]

gradient= [-5.06129553e-05 -3.44235171e-06 5.40553070e-05] w = [-0.03249999 0.96473696 2.06776303] w\_new= [-0.03250049 0.96473692 2.06776357]

gradient= [-5.05392508e-05 -3.43769704e-06 5.39769479e-05] w = [-0.03250049 0.96473692 2.06776357] w\_new= [-0.032501 0.96473689 2.06776411]

gradient= [-5.04656537e-05 -3.43304860e-06 5.38987023e-05] w = [-0.032501 0.96473689 2.06776411] w\_new= [-0.0325015 0.96473685 2.06776465]

gradient= [-5.03921638e-05 -3.42840638e-06 5.38205702e-05] w = [-0.0325015 0.96473685 2.06776465] w\_new= [-0.03250201 0.96473682 2.06776519]

gradient= [-5.03187809e-05 -3.42377037e-06 5.37425513e-05] w = [-0.03250201 0.96473682 2.06776519] w\_new= [-0.03250251 0.96473678 2.06776573]

gradient= [-5.02455050e-05 -3.41914056e-06 5.36646456e-05] w = [-0.03250251 0.96473678 2.06776573] w\_new= [-0.03250301 0.96473675 2.06776626]

gradient= [-5.01723358e-05 -3.41451695e-06 5.35868527e-05] w = [-0.03250301 0.96473675 2.06776626] w\_new= [-0.03250352 0.96473672 2.0677668 ]

gradient= [-5.00992731e-05 -3.40989953e-06 5.35091727e-05] w = [-0.03250352 0.96473672 2.0677668 ] w\_new= [-0.03250402 0.96473668 2.06776733]

gradient= [-5.00263169e-05 -3.40528828e-06 5.34316052e-05] w = [-0.03250402 0.96473668 2.06776733] w\_new= [-0.03250452 0.96473665 2.06776787]

gradient= [-4.99534670e-05 -3.40068320e-06 5.33541502e-05] w = [-0.03250452 0.96473665 2.06776787] w\_new= [-0.03250502 0.96473661 2.0677684 ]

gradient= [-4.98807232e-05 -3.39608429e-06 5.32768075e-05] w = [-0.03250502 0.96473661 2.0677684 ] w\_new= [-0.03250552 0.96473658 2.06776894]

gradient= [-4.98080854e-05 -3.39149153e-06 5.31995769e-05] w = [-0.03250552 0.96473658 2.06776894] w\_new= [-0.03250601 0.96473655 2.06776947]

gradient= [-4.97355534e-05 -3.38690491e-06 5.31224583e-05] w = [-0.03250601 0.96473655 2.06776947] w\_new= [-0.03250651 0.96473651 2.06777 ]

gradient= [-4.96631270e-05 -3.38232444e-06 5.30454514e-05] w = [-0.03250651 0.96473651 2.06777 ] w\_new= [-0.03250701 0.96473648 2.06777053]

gradient= [-4.95908062e-05 -3.37775009e-06 5.29685562e-05] w = [-0.03250701 0.96473648 2.06777053] w\_new= [-0.0325075 0.96473644 2.06777106]

gradient= [-4.95185906e-05 -3.37318186e-06 5.28917725e-05] w = [-0.0325075 0.96473644 2.06777106] w\_new= [-0.032508 0.96473641 2.06777159]

gradient= [-4.94464803e-05 -3.36861975e-06 5.28151001e-05] w = [-0.032508 0.96473641 2.06777159] w\_new= [-0.03250849 0.96473638 2.06777212]

gradient= [-4.93744751e-05 -3.36406374e-06 5.27385388e-05] w = [-0.03250849 0.96473638 2.06777212] w\_new= [-0.03250899 0.96473634 2.06777264]

gradient= [-4.93025747e-05 -3.35951383e-06 5.26620885e-05] w = [-0.03250899 0.96473634 2.06777264] w\_new= [-0.03250948 0.96473631 2.06777317]

gradient= [-4.92307791e-05 -3.35497001e-06 5.25857491e-05] w = [-0.03250948 0.96473631 2.06777317] w\_new= [-0.03250997 0.96473628 2.0677737 ]

gradient= [-4.91590880e-05 -3.35043227e-06 5.25095203e-05] w = [-0.03250997 0.96473628 2.0677737 ] w\_new= [-0.03251046 0.96473624 2.06777422]

gradient= [-4.90875014e-05 -3.34590061e-06 5.24334020e-05] w = [-0.03251046 0.96473624 2.06777422] w\_new= [-0.03251095 0.96473621 2.06777475]

gradient= [-4.90160190e-05 -3.34137501e-06 5.23573940e-05] w = [-0.03251095 0.96473621 2.06777475] w\_new= [-0.03251144 0.96473618 2.06777527]

gradient= [-4.89446408e-05 -3.33685546e-06 5.22814963e-05] w = [-0.03251144 0.96473618 2.06777527] w\_new= [-0.03251193 0.96473614 2.06777579]

gradient= [-4.88733666e-05 -3.33234197e-06 5.22057086e-05] w = [-0.03251193 0.96473614 2.06777579] w\_new= [-0.03251242 0.96473611 2.06777631]

gradient= [-4.88021962e-05 -3.32783451e-06 5.21300307e-05] w = [-0.03251242 0.96473611 2.06777631] w\_new= [-0.03251291 0.96473608 2.06777684]

gradient= [-4.87311294e-05 -3.32333309e-06 5.20544625e-05] w = [-0.03251291 0.96473608 2.06777684] w\_new= [-0.0325134 0.96473604 2.06777736]

gradient= [-4.86601662e-05 -3.31883770e-06 5.19790039e-05] w = [-0.0325134 0.96473604 2.06777736] w\_new= [-0.03251388 0.96473601 2.06777788]

gradient= [-4.85893064e-05 -3.31434832e-06 5.19036547e-05] w = [-0.03251388 0.96473601 2.06777788] w\_new= [-0.03251437 0.96473598 2.06777839]

gradient= [-4.85185498e-05 -3.30986495e-06 5.18284147e-05] w = [-0.03251437 0.96473598 2.06777839] w\_new= [-0.03251486 0.96473594 2.06777891]

gradient= [-4.84478962e-05 -3.30538758e-06 5.17532838e-05] w = [-0.03251486 0.96473594 2.06777891] w\_new= [-0.03251534 0.96473591 2.06777943]

gradient= [-4.83773456e-05 -3.30091620e-06 5.16782618e-05] w = [-0.03251534 0.96473591 2.06777943] w\_new= [-0.03251582 0.96473588 2.06777995]

gradient= [-4.83068977e-05 -3.29645082e-06 5.16033485e-05] w = [-0.03251582 0.96473588 2.06777995] w\_new= [-0.03251631 0.96473584 2.06778046]

gradient= [-4.82365525e-05 -3.29199140e-06 5.15285439e-05] w = [-0.03251631 0.96473584 2.06778046] w\_new= [-0.03251679 0.96473581 2.06778098]

gradient= [-4.81663097e-05 -3.28753796e-06 5.14538477e-05] w = [-0.03251679 0.96473581 2.06778098] w\_new= [-0.03251727 0.96473578 2.06778149]

gradient= [-4.80961693e-05 -3.28309048e-06 5.13792597e-05] w = [-0.03251727 0.96473578 2.06778149] w\_new= [-0.03251775 0.96473575 2.06778201]

gradient= [-4.80261310e-05 -3.27864895e-06 5.13047799e-05] w = [-0.03251775 0.96473575 2.06778201] w\_new= [-0.03251823 0.96473571 2.06778252]

gradient= [-4.79561947e-05 -3.27421337e-06 5.12304081e-05] w = [-0.03251823 0.96473571 2.06778252] w\_new= [-0.03251871 0.96473568 2.06778303]

gradient= [-4.78863604e-05 -3.26978373e-06 5.11561441e-05] w = [-0.03251871 0.96473568 2.06778303] w\_new= [-0.03251919 0.96473565 2.06778354]

gradient= [-4.78166277e-05 -3.26536002e-06 5.10819877e-05] w = [-0.03251919 0.96473565 2.06778354] w\_new= [-0.03251967 0.96473561 2.06778405]

gradient= [-4.77469967e-05 -3.26094223e-06 5.10079389e-05] w = [-0.03251967 0.96473561 2.06778405] w\_new= [-0.03252015 0.96473558 2.06778456]

gradient= [-4.76774670e-05 -3.25653036e-06 5.09339974e-05] w = [-0.03252015 0.96473558 2.06778456] w\_new= [-0.03252062 0.96473555 2.06778507]

gradient= [-4.76080387e-05 -3.25212439e-06 5.08601630e-05] w = [-0.03252062 0.96473555 2.06778507] w\_new= [-0.0325211 0.96473552 2.06778558]

gradient= [-4.75387114e-05 -3.24772432e-06 5.07864358e-05] w = [-0.0325211 0.96473552 2.06778558] w\_new= [-0.03252157 0.96473548 2.06778609]

gradient= [-4.74694852e-05 -3.24333014e-06 5.07128153e-05] w = [-0.03252157 0.96473548 2.06778609] w\_new= [-0.03252205 0.96473545 2.0677866 ]

gradient= [-4.74003598e-05 -3.23894185e-06 5.06393017e-05] w = [-0.03252205 0.96473545 2.0677866 ] w\_new= [-0.03252252 0.96473542 2.0677871 ]

gradient= [-4.73313351e-05 -3.23455943e-06 5.05658945e-05] w = [-0.03252252 0.96473542 2.0677871 ] w\_new= [-0.032523 0.96473539 2.06778761]

gradient= [-4.72624110e-05 -3.23018288e-06 5.04925938e-05] w = [-0.032523 0.96473539 2.06778761] w\_new= [-0.03252347 0.96473535 2.06778811]

gradient= [-4.71935872e-05 -3.22581218e-06 5.04193994e-05] w = [-0.03252347 0.96473535 2.06778811] w\_new= [-0.03252394 0.96473532 2.06778862]

gradient= [-4.71248637e-05 -3.22144735e-06 5.03463110e-05] w = [-0.03252394 0.96473532 2.06778862] w\_new= [-0.03252441 0.96473529 2.06778912]

gradient= [-4.70562403e-05 -3.21708835e-06 5.02733287e-05] w = [-0.03252441 0.96473529 2.06778912] w\_new= [-0.03252488 0.96473526 2.06778962]

gradient= [-4.69877169e-05 -3.21273519e-06 5.02004521e-05] w = [-0.03252488 0.96473526 2.06778962] w\_new= [-0.03252535 0.96473523 2.06779013]

gradient= [-4.69192933e-05 -3.20838787e-06 5.01276811e-05] w = [-0.03252535 0.96473523 2.06779013] w\_new= [-0.03252582 0.96473519 2.06779063]

gradient= [-4.68509693e-05 -3.20404636e-06 5.00550157e-05] w = [-0.03252582 0.96473519 2.06779063] w\_new= [-0.03252629 0.96473516 2.06779113]

gradient= [-4.67827449e-05 -3.19971067e-06 4.99824556e-05] w = [-0.03252629 0.96473516 2.06779113] w\_new= [-0.03252676 0.96473513 2.06779163]

gradient= [-4.67146199e-05 -3.19538078e-06 4.99100006e-05] w = [-0.03252676 0.96473513 2.06779163] w\_new= [-0.03252723 0.9647351 2.06779213]

gradient= [-4.66465941e-05 -3.19105669e-06 4.98376508e-05] w = [-0.03252723 0.9647351 2.06779213] w\_new= [-0.03252769 0.96473507 2.06779263]

gradient= [-4.65786673e-05 -3.18673840e-06 4.97654057e-05] w = [-0.03252769 0.96473507 2.06779263] w\_new= [-0.03252816 0.96473503 2.06779312]

gradient= [-4.65108396e-05 -3.18242588e-06 4.96932655e-05] w = [-0.03252816 0.96473503 2.06779312] w\_new= [-0.03252862 0.964735 2.06779362]

gradient= [-4.64431106e-05 -3.17811914e-06 4.96212298e-05] w = [-0.03252862 0.964735 2.06779362] w\_new= [-0.03252909 0.96473497 2.06779412]

gradient= [-4.63754803e-05 -3.17381817e-06 4.95492985e-05] w = [-0.03252909 0.96473497 2.06779412] w\_new= [-0.03252955 0.96473494 2.06779461]

gradient= [-4.63079485e-05 -3.16952296e-06 4.94774715e-05] w = [-0.03252955 0.96473494 2.06779461] w\_new= [-0.03253001 0.96473491 2.06779511]

gradient= [-4.62405151e-05 -3.16523350e-06 4.94057486e-05] w = [-0.03253001 0.96473491 2.06779511] w\_new= [-0.03253048 0.96473488 2.0677956 ]

gradient= [-4.61731799e-05 -3.16094979e-06 4.93341297e-05] w = [-0.03253048 0.96473488 2.0677956 ] w\_new= [-0.03253094 0.96473484 2.06779609]

gradient= [-4.61059428e-05 -3.15667182e-06 4.92626146e-05] w = [-0.03253094 0.96473484 2.06779609] w\_new= [-0.0325314 0.96473481 2.06779659]

gradient= [-4.60388036e-05 -3.15239957e-06 4.91912032e-05] w = [-0.0325314 0.96473481 2.06779659] w\_new= [-0.03253186 0.96473478 2.06779708]

gradient= [-4.59717623e-05 -3.14813305e-06 4.91198953e-05] w = [-0.03253186 0.96473478 2.06779708] w\_new= [-0.03253232 0.96473475 2.06779757]

gradient= [-4.59048186e-05 -3.14387224e-06 4.90486908e-05] w = [-0.03253232 0.96473475 2.06779757] w\_new= [-0.03253278 0.96473472 2.06779806]

gradient= [-4.58379724e-05 -3.13961714e-06 4.89775895e-05] w = [-0.03253278 0.96473472 2.06779806] w\_new= [-0.03253324 0.96473469 2.06779855]

gradient= [-4.57712235e-05 -3.13536773e-06 4.89065913e-05] w = [-0.03253324 0.96473469 2.06779855] w\_new= [-0.03253369 0.96473466 2.06779904]

gradient= [-4.57045719e-05 -3.13112402e-06 4.88356960e-05] w = [-0.03253369 0.96473466 2.06779904] w\_new= [-0.03253415 0.96473462 2.06779953]

gradient= [-4.56380174e-05 -3.12688600e-06 4.87649034e-05] w = [-0.03253415 0.96473462 2.06779953] w\_new= [-0.03253461 0.96473459 2.06780002]

gradient= [-4.55715599e-05 -3.12265365e-06 4.86942135e-05] w = [-0.03253461 0.96473459 2.06780002] w\_new= [-0.03253506 0.96473456 2.0678005 ]

gradient= [-4.55051991e-05 -3.11842697e-06 4.86236261e-05] w = [-0.03253506 0.96473456 2.0678005 ] w\_new= [-0.03253552 0.96473453 2.06780099]

gradient= [-4.54389350e-05 -3.11420595e-06 4.85531410e-05] w = [-0.03253552 0.96473453 2.06780099] w\_new= [-0.03253597 0.9647345 2.06780147]

gradient= [-4.53727675e-05 -3.10999059e-06 4.84827581e-05] w = [-0.03253597 0.9647345 2.06780147] w\_new= [-0.03253643 0.96473447 2.06780196]

gradient= [-4.53066963e-05 -3.10578087e-06 4.84124772e-05] w = [-0.03253643 0.96473447 2.06780196] w\_new= [-0.03253688 0.96473444 2.06780244]

gradient= [-4.52407213e-05 -3.10157679e-06 4.83422981e-05] w = [-0.03253688 0.96473444 2.06780244] w\_new= [-0.03253733 0.96473441 2.06780293]

gradient= [-4.51748425e-05 -3.09737835e-06 4.82722209e-05] w = [-0.03253733 0.96473441 2.06780293] w\_new= [-0.03253778 0.96473437 2.06780341]

gradient= [-4.51090596e-05 -3.09318553e-06 4.82022452e-05] w = [-0.03253778 0.96473437 2.06780341] w\_new= [-0.03253824 0.96473434 2.06780389]

gradient= [-4.50433726e-05 -3.08899833e-06 4.81323709e-05] w = [-0.03253824 0.96473434 2.06780389] w\_new= [-0.03253869 0.96473431 2.06780437]

gradient= [-4.49777812e-05 -3.08481673e-06 4.80625979e-05] w = [-0.03253869 0.96473431 2.06780437] w\_new= [-0.03253914 0.96473428 2.06780485]

gradient= [-4.49122854e-05 -3.08064074e-06 4.79929261e-05] w = [-0.03253914 0.96473428 2.06780485] w\_new= [-0.03253958 0.96473425 2.06780533]

gradient= [-4.48468849e-05 -3.07647035e-06 4.79233553e-05] w = [-0.03253958 0.96473425 2.06780533] w\_new= [-0.03254003 0.96473422 2.06780581]

gradient= [-4.47815798e-05 -3.07230554e-06 4.78538853e-05] w = [-0.03254003 0.96473422 2.06780581] w\_new= [-0.03254048 0.96473419 2.06780629]

gradient= [-4.47163697e-05 -3.06814631e-06 4.77845161e-05] w = [-0.03254048 0.96473419 2.06780629] w\_new= [-0.03254093 0.96473416 2.06780677]

gradient= [-4.46512547e-05 -3.06399266e-06 4.77152474e-05] w = [-0.03254093 0.96473416 2.06780677] w\_new= [-0.03254137 0.96473413 2.06780725]

gradient= [-4.45862345e-05 -3.05984457e-06 4.76460791e-05] w = [-0.03254137 0.96473413 2.06780725] w\_new= [-0.03254182 0.9647341 2.06780772]

gradient= [-4.45213090e-05 -3.05570203e-06 4.75770110e-05] w = [-0.03254182 0.9647341 2.06780772] w\_new= [-0.03254227 0.96473407 2.0678082 ]

gradient= [-4.44564781e-05 -3.05156505e-06 4.75080432e-05] w = [-0.03254227 0.96473407 2.0678082 ] w\_new= [-0.03254271 0.96473404 2.06780867]

gradient= [-4.43917416e-05 -3.04743362e-06 4.74391752e-05] w = [-0.03254271 0.96473404 2.06780867] w\_new= [-0.03254315 0.96473401 2.06780915]

gradient= [-4.43270994e-05 -3.04330771e-06 4.73704071e-05] w = [-0.03254315 0.96473401 2.06780915] w\_new= [-0.0325436 0.96473398 2.06780962]

gradient= [-4.42625514e-05 -3.03918734e-06 4.73017388e-05] w = [-0.0325436 0.96473398 2.06780962] w\_new= [-0.03254404 0.96473395 2.06781009]

gradient= [-4.41980974e-05 -3.03507249e-06 4.72331699e-05] w = [-0.03254404 0.96473395 2.06781009] w\_new= [-0.03254448 0.96473392 2.06781057]

gradient= [-4.41337373e-05 -3.03096315e-06 4.71647004e-05] w = [-0.03254448 0.96473392 2.06781057] w\_new= [-0.03254492 0.96473389 2.06781104]

gradient= [-4.40694709e-05 -3.02685932e-06 4.70963302e-05] w = [-0.03254492 0.96473389 2.06781104] w\_new= [-0.03254536 0.96473385 2.06781151]

gradient= [-4.40052982e-05 -3.02276099e-06 4.70280592e-05] w = [-0.03254536 0.96473385 2.06781151] w\_new= [-0.0325458 0.96473382 2.06781198]

gradient= [-4.39412189e-05 -3.01866815e-06 4.69598870e-05] w = [-0.0325458 0.96473382 2.06781198] w\_new= [-0.03254624 0.96473379 2.06781245]

gradient= [-4.38772330e-05 -3.01458079e-06 4.68918138e-05] w = [-0.03254624 0.96473379 2.06781245] w\_new= [-0.03254668 0.96473376 2.06781292]

gradient= [-4.38133402e-05 -3.01049891e-06 4.68238391e-05] w = [-0.03254668 0.96473376 2.06781292] w\_new= [-0.03254712 0.96473373 2.06781339]

gradient= [-4.37495406e-05 -3.00642251e-06 4.67559631e-05] w = [-0.03254712 0.96473373 2.06781339] w\_new= [-0.03254756 0.9647337 2.06781385]

gradient= [-4.36858338e-05 -3.00235156e-06 4.66881854e-05] w = [-0.03254756 0.9647337 2.06781385] w\_new= [-0.03254799 0.96473367 2.06781432]

gradient= [-4.36222199e-05 -2.99828608e-06 4.66205060e-05] w = [-0.03254799 0.96473367 2.06781432] w\_new= [-0.03254843 0.96473364 2.06781479]

gradient= [-4.35586986e-05 -2.99422604e-06 4.65529246e-05] w = [-0.03254843 0.96473364 2.06781479] w\_new= [-0.03254887 0.96473361 2.06781525]

gradient= [-4.34952699e-05 -2.99017144e-06 4.64854413e-05] w = [-0.03254887 0.96473361 2.06781525] w\_new= [-0.0325493 0.96473358 2.06781572]

gradient= [-4.34319335e-05 -2.98612228e-06 4.64180558e-05] w = [-0.0325493 0.96473358 2.06781572] w\_new= [-0.03254974 0.96473355 2.06781618]

gradient= [-4.33686894e-05 -2.98207854e-06 4.63507679e-05] w = [-0.03254974 0.96473355 2.06781618] w\_new= [-0.03255017 0.96473352 2.06781665]

gradient= [-4.33055374e-05 -2.97804022e-06 4.62835776e-05] w = [-0.03255017 0.96473352 2.06781665] w\_new= [-0.0325506 0.96473349 2.06781711]

gradient= [-4.32424774e-05 -2.97400732e-06 4.62164847e-05] w = [-0.0325506 0.96473349 2.06781711] w\_new= [-0.03255104 0.96473347 2.06781757]

gradient= [-4.31795093e-05 -2.96997982e-06 4.61494891e-05] w = [-0.03255104 0.96473347 2.06781757] w\_new= [-0.03255147 0.96473344 2.06781803]

gradient= [-4.31166329e-05 -2.96595772e-06 4.60825906e-05] w = [-0.03255147 0.96473344 2.06781803] w\_new= [-0.0325519 0.96473341 2.06781849]

gradient= [-4.30538480e-05 -2.96194102e-06 4.60157891e-05] w = [-0.0325519 0.96473341 2.06781849] w\_new= [-0.03255233 0.96473338 2.06781895]

gradient= [-4.29911547e-05 -2.95792969e-06 4.59490844e-05] w = [-0.03255233 0.96473338 2.06781895] w\_new= [-0.03255276 0.96473335 2.06781941]

gradient= [-4.29285526e-05 -2.95392374e-06 4.58824763e-05] w = [-0.03255276 0.96473335 2.06781941] w\_new= [-0.03255319 0.96473332 2.06781987]

gradient= [-4.28660417e-05 -2.94992317e-06 4.58159649e-05] w = [-0.03255319 0.96473332 2.06781987] w\_new= [-0.03255362 0.96473329 2.06782033]

gradient= [-4.28036219e-05 -2.94592795e-06 4.57495499e-05] w = [-0.03255362 0.96473329 2.06782033] w\_new= [-0.03255404 0.96473326 2.06782079]

gradient= [-4.27412930e-05 -2.94193809e-06 4.56832311e-05] w = [-0.03255404 0.96473326 2.06782079] w\_new= [-0.03255447 0.96473323 2.06782124]

gradient= [-4.26790549e-05 -2.93795358e-06 4.56170085e-05] w = [-0.03255447 0.96473323 2.06782124] w\_new= [-0.0325549 0.9647332 2.0678217]

gradient= [-4.26169075e-05 -2.93397442e-06 4.55508819e-05] w = [-0.0325549 0.9647332 2.0678217] w\_new= [-0.03255532 0.96473317 2.06782216]

gradient= [-4.25548505e-05 -2.93000058e-06 4.54848511e-05] w = [-0.03255532 0.96473317 2.06782216] w\_new= [-0.03255575 0.96473314 2.06782261]

gradient= [-4.24928840e-05 -2.92603207e-06 4.54189161e-05] w = [-0.03255575 0.96473314 2.06782261] w\_new= [-0.03255618 0.96473311 2.06782306]

gradient= [-4.24310077e-05 -2.92206889e-06 4.53530766e-05] w = [-0.03255618 0.96473311 2.06782306] w\_new= [-0.0325566 0.96473308 2.06782352]

gradient= [-4.23692216e-05 -2.91811101e-06 4.52873326e-05] w = [-0.0325566 0.96473308 2.06782352] w\_new= [-0.03255702 0.96473305 2.06782397]

gradient= [-4.23075254e-05 -2.91415845e-06 4.52216839e-05] w = [-0.03255702 0.96473305 2.06782397] w\_new= [-0.03255745 0.96473302 2.06782442]

gradient= [-4.22459192e-05 -2.91021118e-06 4.51561303e-05] w = [-0.03255745 0.96473302 2.06782442] w\_new= [-0.03255787 0.96473299 2.06782487]

gradient= [-4.21844026e-05 -2.90626921e-06 4.50906718e-05] w = [-0.03255787 0.96473299 2.06782487] w\_new= [-0.03255829 0.96473297 2.06782533]

gradient= [-4.21229757e-05 -2.90233252e-06 4.50253082e-05] w = [-0.03255829 0.96473297 2.06782533] w\_new= [-0.03255871 0.96473294 2.06782578]

gradient= [-4.20616382e-05 -2.89840110e-06 4.49600393e-05] w = [-0.03255871 0.96473294 2.06782578] w\_new= [-0.03255913 0.96473291 2.06782623]

gradient= [-4.20003901e-05 -2.89447496e-06 4.48948651e-05] w = [-0.03255913 0.96473291 2.06782623] w\_new= [-0.03255955 0.96473288 2.06782667]

gradient= [-4.19392312e-05 -2.89055409e-06 4.48297853e-05] w = [-0.03255955 0.96473288 2.06782667] w\_new= [-0.03255997 0.96473285 2.06782712]

gradient= [-4.18781614e-05 -2.88663847e-06 4.47647998e-05] w = [-0.03255997 0.96473285 2.06782712] w\_new= [-0.03256039 0.96473282 2.06782757]

gradient= [-4.18171805e-05 -2.88272810e-06 4.46999086e-05] w = [-0.03256039 0.96473282 2.06782757] w\_new= [-0.03256081 0.96473279 2.06782802]

gradient= [-4.17562885e-05 -2.87882297e-06 4.46351114e-05] w = [-0.03256081 0.96473279 2.06782802] w\_new= [-0.03256123 0.96473276 2.06782846]

gradient= [-4.16954851e-05 -2.87492308e-06 4.45704082e-05] w = [-0.03256123 0.96473276 2.06782846] w\_new= [-0.03256164 0.96473273 2.06782891]

gradient= [-4.16347703e-05 -2.87102842e-06 4.45057987e-05] w = [-0.03256164 0.96473273 2.06782891] w\_new= [-0.03256206 0.96473271 2.06782935]

gradient= [-4.15741440e-05 -2.86713899e-06 4.44412830e-05] w = [-0.03256206 0.96473271 2.06782935] w\_new= [-0.03256248 0.96473268 2.0678298 ]

gradient= [-4.15136059e-05 -2.86325477e-06 4.43768607e-05] w = [-0.03256248 0.96473268 2.0678298 ] w\_new= [-0.03256289 0.96473265 2.06783024]

gradient= [-4.14531561e-05 -2.85937575e-06 4.43125318e-05] w = [-0.03256289 0.96473265 2.06783024] w\_new= [-0.03256331 0.96473262 2.06783069]

gradient= [-4.13927943e-05 -2.85550194e-06 4.42482962e-05] w = [-0.03256331 0.96473262 2.06783069] w\_new= [-0.03256372 0.96473259 2.06783113]

gradient= [-4.13325204e-05 -2.85163333e-06 4.41841537e-05] w = [-0.03256372 0.96473259 2.06783113] w\_new= [-0.03256413 0.96473256 2.06783157]

gradient= [-4.12723343e-05 -2.84776990e-06 4.41201042e-05] w = [-0.03256413 0.96473256 2.06783157] w\_new= [-0.03256455 0.96473253 2.06783201]

gradient= [-4.12122359e-05 -2.84391165e-06 4.40561475e-05] w = [-0.03256455 0.96473253 2.06783201] w\_new= [-0.03256496 0.96473251 2.06783245]

gradient= [-4.11522250e-05 -2.84005858e-06 4.39922836e-05] w = [-0.03256496 0.96473251 2.06783245] w\_new= [-0.03256537 0.96473248 2.06783289]

gradient= [-4.10923015e-05 -2.83621067e-06 4.39285122e-05] w = [-0.03256537 0.96473248 2.06783289] w\_new= [-0.03256578 0.96473245 2.06783333]

gradient= [-4.10324653e-05 -2.83236793e-06 4.38648332e-05] w = [-0.03256578 0.96473245 2.06783333] w\_new= [-0.03256619 0.96473242 2.06783377]

gradient= [-4.09727163e-05 -2.82853034e-06 4.38012466e-05] w = [-0.03256619 0.96473242 2.06783377] w\_new= [-0.0325666 0.96473239 2.06783421]

gradient= [-4.09130543e-05 -2.82469790e-06 4.37377522e-05] w = [-0.0325666 0.96473239 2.06783421] w\_new= [-0.03256701 0.96473236 2.06783464]

gradient= [-4.08534791e-05 -2.82087059e-06 4.36743497e-05] w = [-0.03256701 0.96473236 2.06783464] w\_new= [-0.03256742 0.96473234 2.06783508]

gradient= [-4.07939908e-05 -2.81704842e-06 4.36110392e-05] w = [-0.03256742 0.96473234 2.06783508] w\_new= [-0.03256783 0.96473231 2.06783552]

gradient= [-4.07345891e-05 -2.81323138e-06 4.35478205e-05] w = [-0.03256783 0.96473231 2.06783552] w\_new= [-0.03256823 0.96473228 2.06783595]

gradient= [-4.06752740e-05 -2.80941946e-06 4.34846934e-05] w = [-0.03256823 0.96473228 2.06783595] w\_new= [-0.03256864 0.96473225 2.06783639]

gradient= [-4.06160452e-05 -2.80561265e-06 4.34216579e-05] w = [-0.03256864 0.96473225 2.06783639] w\_new= [-0.03256905 0.96473222 2.06783682]

gradient= [-4.05569027e-05 -2.80181094e-06 4.33587137e-05] w = [-0.03256905 0.96473222 2.06783682] w\_new= [-0.03256945 0.9647322 2.06783726]

gradient= [-4.04978464e-05 -2.79801434e-06 4.32958607e-05] w = [-0.03256945 0.9647322 2.06783726] w\_new= [-0.03256986 0.96473217 2.06783769]

gradient= [-4.04388761e-05 -2.79422282e-06 4.32330989e-05] w = [-0.03256986 0.96473217 2.06783769] w\_new= [-0.03257026 0.96473214 2.06783812]

gradient= [-4.03799916e-05 -2.79043640e-06 4.31704280e-05] w = [-0.03257026 0.96473214 2.06783812] w\_new= [-0.03257066 0.96473211 2.06783855]

gradient= [-4.03211930e-05 -2.78665505e-06 4.31078480e-05] w = [-0.03257066 0.96473211 2.06783855] w\_new= [-0.03257107 0.96473208 2.06783898]

gradient= [-4.02624800e-05 -2.78287878e-06 4.30453587e-05] w = [-0.03257107 0.96473208 2.06783898] w\_new= [-0.03257147 0.96473206 2.06783941]

gradient= [-4.02038525e-05 -2.77910757e-06 4.29829600e-05] w = [-0.03257147 0.96473206 2.06783941] w\_new= [-0.03257187 0.96473203 2.06783984]

gradient= [-4.01453104e-05 -2.77534142e-06 4.29206518e-05] w = [-0.03257187 0.96473203 2.06783984] w\_new= [-0.03257227 0.964732 2.06784027]

gradient= [-4.00868535e-05 -2.77158032e-06 4.28584338e-05] w = [-0.03257227 0.964732 2.06784027] w\_new= [-0.03257267 0.96473197 2.0678407 ]

gradient= [-4.00284818e-05 -2.76782427e-06 4.27963061e-05] w = [-0.03257267 0.96473197 2.0678407 ] w\_new= [-0.03257307 0.96473195 2.06784113]

gradient= [-3.99701952e-05 -2.76407326e-06 4.27342684e-05] w = [-0.03257307 0.96473195 2.06784113] w\_new= [-0.03257347 0.96473192 2.06784156]

gradient= [-3.99119934e-05 -2.76032728e-06 4.26723207e-05] w = [-0.03257347 0.96473192 2.06784156] w\_new= [-0.03257387 0.96473189 2.06784198]

gradient= [-3.98538764e-05 -2.75658632e-06 4.26104627e-05] w = [-0.03257387 0.96473189 2.06784198] w\_new= [-0.03257427 0.96473186 2.06784241]

gradient= [-3.97958441e-05 -2.75285038e-06 4.25486945e-05] w = [-0.03257427 0.96473186 2.06784241] w\_new= [-0.03257467 0.96473183 2.06784284]

gradient= [-3.97378963e-05 -2.74911946e-06 4.24870157e-05] w = [-0.03257467 0.96473183 2.06784284] w\_new= [-0.03257507 0.96473181 2.06784326]

gradient= [-3.96800329e-05 -2.74539354e-06 4.24254264e-05] w = [-0.03257507 0.96473181 2.06784326] w\_new= [-0.03257546 0.96473178 2.06784368]

gradient= [-3.96222537e-05 -2.74167262e-06 4.23639264e-05] w = [-0.03257546 0.96473178 2.06784368] w\_new= [-0.03257586 0.96473175 2.06784411]

gradient= [-3.95645588e-05 -2.73795670e-06 4.23025155e-05] w = [-0.03257586 0.96473175 2.06784411] w\_new= [-0.03257626 0.96473173 2.06784453]

gradient= [-3.95069478e-05 -2.73424576e-06 4.22411936e-05] w = [-0.03257626 0.96473173 2.06784453] w\_new= [-0.03257665 0.9647317 2.06784495]

gradient= [-3.94494208e-05 -2.73053979e-06 4.21799606e-05] w = [-0.03257665 0.9647317 2.06784495] w\_new= [-0.03257705 0.96473167 2.06784538]

gradient= [-3.93919776e-05 -2.72683881e-06 4.21188164e-05] w = [-0.03257705 0.96473167 2.06784538] w\_new= [-0.03257744 0.96473164 2.0678458 ]

gradient= [-3.93346181e-05 -2.72314278e-06 4.20577608e-05] w = [-0.03257744 0.96473164 2.0678458 ] w\_new= [-0.03257783 0.96473162 2.06784622]

gradient= [-3.92773420e-05 -2.71945172e-06 4.19967938e-05] w = [-0.03257783 0.96473162 2.06784622] w\_new= [-0.03257823 0.96473159 2.06784664]

gradient= [-3.92201495e-05 -2.71576561e-06 4.19359151e-05] w = [-0.03257823 0.96473159 2.06784664] w\_new= [-0.03257862 0.96473156 2.06784706]

gradient= [-3.91630402e-05 -2.71208444e-06 4.18751246e-05] w = [-0.03257862 0.96473156 2.06784706] w\_new= [-0.03257901 0.96473153 2.06784748]

gradient= [-3.91060141e-05 -2.70840822e-06 4.18144223e-05] w = [-0.03257901 0.96473153 2.06784748] w\_new= [-0.0325794 0.96473151 2.06784789]

gradient= [-3.90490711e-05 -2.70473693e-06 4.17538080e-05] w = [-0.0325794 0.96473151 2.06784789] w\_new= [-0.03257979 0.96473148 2.06784831]

gradient= [-3.89922110e-05 -2.70107056e-06 4.16932815e-05] w = [-0.03257979 0.96473148 2.06784831] w\_new= [-0.03258018 0.96473145 2.06784873]

gradient= [-3.89354337e-05 -2.69740912e-06 4.16328428e-05] w = [-0.03258018 0.96473145 2.06784873] w\_new= [-0.03258057 0.96473143 2.06784914]

gradient= [-3.88787391e-05 -2.69375259e-06 4.15724917e-05] w = [-0.03258057 0.96473143 2.06784914] w\_new= [-0.03258096 0.9647314 2.06784956]

gradient= [-3.88221271e-05 -2.69010096e-06 4.15122281e-05] w = [-0.03258096 0.9647314 2.06784956] w\_new= [-0.03258135 0.96473137 2.06784998]

gradient= [-3.87655976e-05 -2.68645424e-06 4.14520518e-05] w = [-0.03258135 0.96473137 2.06784998] w\_new= [-0.03258174 0.96473135 2.06785039]

gradient= [-3.87091504e-05 -2.68281241e-06 4.13919628e-05] w = [-0.03258174 0.96473135 2.06785039] w\_new= [-0.03258212 0.96473132 2.0678508 ]

gradient= [-3.86527854e-05 -2.67917547e-06 4.13319609e-05] w = [-0.03258212 0.96473132 2.0678508 ] w\_new= [-0.03258251 0.96473129 2.06785122]

gradient= [-3.85965025e-05 -2.67554340e-06 4.12720459e-05] w = [-0.03258251 0.96473129 2.06785122] w\_new= [-0.03258289 0.96473127 2.06785163]

gradient= [-3.85403016e-05 -2.67191622e-06 4.12122178e-05] w = [-0.03258289 0.96473127 2.06785163] w\_new= [-0.03258328 0.96473124 2.06785204]

gradient= [-3.84841826e-05 -2.66829390e-06 4.11524765e-05] w = [-0.03258328 0.96473124 2.06785204] w\_new= [-0.03258366 0.96473121 2.06785245]

gradient= [-3.84281452e-05 -2.66467644e-06 4.10928217e-05] w = [-0.03258366 0.96473121 2.06785245] w\_new= [-0.03258405 0.96473119 2.06785286]

gradient= [-3.83721896e-05 -2.66106384e-06 4.10332534e-05] w = [-0.03258405 0.96473119 2.06785286] w\_new= [-0.03258443 0.96473116 2.06785327]

gradient= [-3.83163154e-05 -2.65745609e-06 4.09737715e-05] w = [-0.03258443 0.96473116 2.06785327] w\_new= [-0.03258482 0.96473113 2.06785368]

gradient= [-3.82605226e-05 -2.65385318e-06 4.09143757e-05] w = [-0.03258482 0.96473113 2.06785368] w\_new= [-0.0325852 0.96473111 2.06785409]

gradient= [-3.82048110e-05 -2.65025511e-06 4.08550661e-05] w = [-0.0325852 0.96473111 2.06785409] w\_new= [-0.03258558 0.96473108 2.0678545 ]

gradient= [-3.81491806e-05 -2.64666186e-06 4.07958425e-05] w = [-0.03258558 0.96473108 2.0678545 ] w\_new= [-0.03258596 0.96473105 2.06785491]

gradient= [-3.80936313e-05 -2.64307344e-06 4.07367047e-05] w = [-0.03258596 0.96473105 2.06785491] w\_new= [-0.03258634 0.96473103 2.06785532]

gradient= [-3.80381628e-05 -2.63948984e-06 4.06776527e-05] w = [-0.03258634 0.96473103 2.06785532] w\_new= [-0.03258672 0.964731 2.06785572]

gradient= [-3.79827752e-05 -2.63591104e-06 4.06186862e-05] w = [-0.03258672 0.964731 2.06785572] w\_new= [-0.0325871 0.96473097 2.06785613]

gradient= [-3.79274682e-05 -2.63233705e-06 4.05598052e-05] w = [-0.0325871 0.96473097 2.06785613] w\_new= [-0.03258748 0.96473095 2.06785654]

gradient= [-3.78722417e-05 -2.62876786e-06 4.05010096e-05] w = [-0.03258748 0.96473095 2.06785654] w\_new= [-0.03258786 0.96473092 2.06785694]

gradient= [-3.78170957e-05 -2.62520346e-06 4.04422992e-05] w = [-0.03258786 0.96473092 2.06785694] w\_new= [-0.03258824 0.96473089 2.06785735]

gradient= [-3.77620301e-05 -2.62164384e-06 4.03836739e-05] w = [-0.03258824 0.96473089 2.06785735] w\_new= [-0.03258862 0.96473087 2.06785775]

gradient= [-3.77070446e-05 -2.61808900e-06 4.03251336e-05] w = [-0.03258862 0.96473087 2.06785775] w\_new= [-0.03258899 0.96473084 2.06785815]

gradient= [-3.76521392e-05 -2.61453894e-06 4.02666782e-05] w = [-0.03258899 0.96473084 2.06785815] w\_new= [-0.03258937 0.96473082 2.06785855]

gradient= [-3.75973138e-05 -2.61099364e-06 4.02083074e-05] w = [-0.03258937 0.96473082 2.06785855] w\_new= [-0.03258975 0.96473079 2.06785896]

gradient= [-3.75425683e-05 -2.60745310e-06 4.01500214e-05] w = [-0.03258975 0.96473079 2.06785896] w\_new= [-0.03259012 0.96473076 2.06785936]

gradient= [-3.74879024e-05 -2.60391731e-06 4.00918198e-05] w = [-0.03259012 0.96473076 2.06785936] w\_new= [-0.0325905 0.96473074 2.06785976]

gradient= [-3.74333162e-05 -2.60038627e-06 4.00337025e-05] w = [-0.0325905 0.96473074 2.06785976] w\_new= [-0.03259087 0.96473071 2.06786016]

gradient= [-3.73788096e-05 -2.59685997e-06 3.99756695e-05] w = [-0.03259087 0.96473071 2.06786016] w\_new= [-0.03259125 0.96473069 2.06786056]

gradient= [-3.73243823e-05 -2.59333841e-06 3.99177207e-05] w = [-0.03259125 0.96473069 2.06786056] w\_new= [-0.03259162 0.96473066 2.06786096]

gradient= [-3.72700342e-05 -2.58982157e-06 3.98598558e-05] w = [-0.03259162 0.96473066 2.06786096] w\_new= [-0.03259199 0.96473063 2.06786136]

gradient= [-3.72157654e-05 -2.58630946e-06 3.98020748e-05] w = [-0.03259199 0.96473063 2.06786136] w\_new= [-0.03259236 0.96473061 2.06786176]

gradient= [-3.71615756e-05 -2.58280206e-06 3.97443776e-05] w = [-0.03259236 0.96473061 2.06786176] w\_new= [-0.03259273 0.96473058 2.06786215]

gradient= [-3.71074647e-05 -2.57929937e-06 3.96867640e-05] w = [-0.03259273 0.96473058 2.06786215] w\_new= [-0.03259311 0.96473056 2.06786255]

gradient= [-3.70534326e-05 -2.57580138e-06 3.96292340e-05] w = [-0.03259311 0.96473056 2.06786255] w\_new= [-0.03259348 0.96473053 2.06786295]

gradient= [-3.69994792e-05 -2.57230809e-06 3.95717873e-05] w = [-0.03259348 0.96473053 2.06786295] w\_new= [-0.03259385 0.9647305 2.06786334]

gradient= [-3.69456044e-05 -2.56881950e-06 3.95144239e-05] w = [-0.03259385 0.9647305 2.06786334] w\_new= [-0.03259422 0.96473048 2.06786374]

gradient= [-3.68918081e-05 -2.56533558e-06 3.94571437e-05] w = [-0.03259422 0.96473048 2.06786374] w\_new= [-0.03259458 0.96473045 2.06786413]

gradient= [-3.68380901e-05 -2.56185634e-06 3.93999465e-05] w = [-0.03259458 0.96473045 2.06786413] w\_new= [-0.03259495 0.96473043 2.06786453]

gradient= [-3.67844504e-05 -2.55838178e-06 3.93428322e-05] w = [-0.03259495 0.96473043 2.06786453] w\_new= [-0.03259532 0.9647304 2.06786492]

gradient= [-3.67308888e-05 -2.55491188e-06 3.92858007e-05] w = [-0.03259532 0.9647304 2.06786492] w\_new= [-0.03259569 0.96473038 2.06786531]

gradient= [-3.66774052e-05 -2.55144664e-06 3.92288519e-05] w = [-0.03259569 0.96473038 2.06786531] w\_new= [-0.03259606 0.96473035 2.0678657 ]

gradient= [-3.66239995e-05 -2.54798606e-06 3.91719856e-05] w = [-0.03259606 0.96473035 2.0678657 ] w\_new= [-0.03259642 0.96473033 2.0678661 ]

gradient= [-3.65706716e-05 -2.54453012e-06 3.91152017e-05] w = [-0.03259642 0.96473033 2.0678661 ] w\_new= [-0.03259679 0.9647303 2.06786649]

gradient= [-3.65174214e-05 -2.54107882e-06 3.90585002e-05] w = [-0.03259679 0.9647303 2.06786649] w\_new= [-0.03259715 0.96473027 2.06786688]

gradient= [-3.64642487e-05 -2.53763216e-06 3.90018809e-05] w = [-0.03259715 0.96473027 2.06786688] w\_new= [-0.03259752 0.96473025 2.06786727]

gradient= [-3.64111535e-05 -2.53419012e-06 3.89453436e-05] w = [-0.03259752 0.96473025 2.06786727] w\_new= [-0.03259788 0.96473022 2.06786766]

gradient= [-3.63581356e-05 -2.53075271e-06 3.88888883e-05] w = [-0.03259788 0.96473022 2.06786766] w\_new= [-0.03259824 0.9647302 2.06786805]

gradient= [-3.63051949e-05 -2.52731992e-06 3.88325149e-05] w = [-0.03259824 0.9647302 2.06786805] w\_new= [-0.03259861 0.96473017 2.06786843]

gradient= [-3.62523314e-05 -2.52389173e-06 3.87762231e-05] w = [-0.03259861 0.96473017 2.06786843] w\_new= [-0.03259897 0.96473015 2.06786882]

gradient= [-3.61995448e-05 -2.52046815e-06 3.87200130e-05] w = [-0.03259897 0.96473015 2.06786882] w\_new= [-0.03259933 0.96473012 2.06786921]

gradient= [-3.61468351e-05 -2.51704917e-06 3.86638843e-05] w = [-0.03259933 0.96473012 2.06786921] w\_new= [-0.03259969 0.9647301 2.0678696 ]

gradient= [-3.60942022e-05 -2.51363478e-06 3.86078370e-05] w = [-0.03259969 0.9647301 2.0678696 ] w\_new= [-0.03260005 0.96473007 2.06786998]

gradient= [-3.60416460e-05 -2.51022498e-06 3.85518710e-05] w = [-0.03260005 0.96473007 2.06786998] w\_new= [-0.03260042 0.96473005 2.06787037]

gradient= [-3.59891663e-05 -2.50681975e-06 3.84959860e-05] w = [-0.03260042 0.96473005 2.06787037] w\_new= [-0.03260077 0.96473002 2.06787075]

gradient= [-3.59367630e-05 -2.50341910e-06 3.84401821e-05] w = [-0.03260077 0.96473002 2.06787075] w\_new= [-0.03260113 0.96473 2.06787114]

gradient= [-3.58844361e-05 -2.50002302e-06 3.83844591e-05] w = [-0.03260113 0.96473 2.06787114] w\_new= [-0.03260149 0.96472997 2.06787152]

gradient= [-3.58321853e-05 -2.49663150e-06 3.83288168e-05] w = [-0.03260149 0.96472997 2.06787152] w\_new= [-0.03260185 0.96472995 2.0678719 ]

gradient= [-3.57800107e-05 -2.49324454e-06 3.82732553e-05] w = [-0.03260185 0.96472995 2.0678719 ] w\_new= [-0.03260221 0.96472992 2.06787229]

gradient= [-3.57279121e-05 -2.48986212e-06 3.82177742e-05] w = [-0.03260221 0.96472992 2.06787229] w\_new= [-0.03260257 0.9647299 2.06787267]

gradient= [-3.56758894e-05 -2.48648425e-06 3.81623736e-05] w = [-0.03260257 0.9647299 2.06787267] w\_new= [-0.03260292 0.96472987 2.06787305]

gradient= [-3.56239424e-05 -2.48311091e-06 3.81070533e-05] w = [-0.03260292 0.96472987 2.06787305] w\_new= [-0.03260328 0.96472985 2.06787343]

gradient= [-3.55720711e-05 -2.47974211e-06 3.80518132e-05] w = [-0.03260328 0.96472985 2.06787343] w\_new= [-0.03260364 0.96472982 2.06787381]

gradient= [-3.55202753e-05 -2.47637783e-06 3.79966531e-05] w = [-0.03260364 0.96472982 2.06787381] w\_new= [-0.03260399 0.9647298 2.06787419]

gradient= [-3.54685550e-05 -2.47301807e-06 3.79415730e-05] w = [-0.03260399 0.9647298 2.06787419] w\_new= [-0.03260435 0.96472977 2.06787457]

gradient= [-3.54169100e-05 -2.46966283e-06 3.78865728e-05] w = [-0.03260435 0.96472977 2.06787457] w\_new= [-0.0326047 0.96472975 2.06787495]

gradient= [-3.53653402e-05 -2.46631209e-06 3.78316523e-05] w = [-0.0326047 0.96472975 2.06787495] w\_new= [-0.03260505 0.96472972 2.06787533]

gradient= [-3.53138455e-05 -2.46296585e-06 3.77768114e-05] w = [-0.03260505 0.96472972 2.06787533] w\_new= [-0.03260541 0.9647297 2.06787571]

gradient= [-3.52624259e-05 -2.45962411e-06 3.77220500e-05] w = [-0.03260541 0.9647297 2.06787571] w\_new= [-0.03260576 0.96472968 2.06787608]

gradient= [-3.52110811e-05 -2.45628686e-06 3.76673680e-05] w = [-0.03260576 0.96472968 2.06787608] w\_new= [-0.03260611 0.96472965 2.06787646]

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gradient= [-3.51086158e-05 -2.44962581e-06 3.75582416e-05] w = [-0.03260646 0.96472963 2.06787684] w\_new= [-0.03260681 0.9647296 2.06787721]

gradient= [-3.50574951e-05 -2.44630199e-06 3.75037970e-05] w = [-0.03260681 0.9647296 2.06787721] w\_new= [-0.03260716 0.96472958 2.06787759]

gradient= [-3.50064488e-05 -2.44298264e-06 3.74494314e-05] w = [-0.03260716 0.96472958 2.06787759] w\_new= [-0.03260751 0.96472955 2.06787796]

gradient= [-3.49554768e-05 -2.43966774e-06 3.73951446e-05] w = [-0.03260751 0.96472955 2.06787796] w\_new= [-0.03260786 0.96472953 2.06787834]

gradient= [-3.49045791e-05 -2.43635730e-06 3.73409364e-05] w = [-0.03260786 0.96472953 2.06787834] w\_new= [-0.03260821 0.9647295 2.06787871]

gradient= [-3.48537555e-05 -2.43305131e-06 3.72868069e-05] w = [-0.03260821 0.9647295 2.06787871] w\_new= [-0.03260856 0.96472948 2.06787908]

gradient= [-3.48030060e-05 -2.42974976e-06 3.72327558e-05] w = [-0.03260856 0.96472948 2.06787908] w\_new= [-0.03260891 0.96472946 2.06787945]

gradient= [-3.47523304e-05 -2.42645265e-06 3.71787830e-05] w = [-0.03260891 0.96472946 2.06787945] w\_new= [-0.03260926 0.96472943 2.06787983]

gradient= [-3.47017285e-05 -2.42315997e-06 3.71248885e-05] w = [-0.03260926 0.96472943 2.06787983] w\_new= [-0.0326096 0.96472941 2.0678802 ]

gradient= [-3.46512004e-05 -2.41987171e-06 3.70710721e-05] w = [-0.0326096 0.96472941 2.0678802 ] w\_new= [-0.03260995 0.96472938 2.06788057]

gradient= [-3.46007459e-05 -2.41658787e-06 3.70173338e-05] w = [-0.03260995 0.96472938 2.06788057] w\_new= [-0.0326103 0.96472936 2.06788094]

gradient= [-3.45503648e-05 -2.41330845e-06 3.69636733e-05] w = [-0.0326103 0.96472936 2.06788094] w\_new= [-0.03261064 0.96472933 2.06788131]

gradient= [-3.45000572e-05 -2.41003343e-06 3.69100906e-05] w = [-0.03261064 0.96472933 2.06788131] w\_new= [-0.03261099 0.96472931 2.06788168]

gradient= [-3.44498228e-05 -2.40676281e-06 3.68565856e-05] w = [-0.03261099 0.96472931 2.06788168] w\_new= [-0.03261133 0.96472929 2.06788205]

gradient= [-3.43996616e-05 -2.40349658e-06 3.68031581e-05] w = [-0.03261133 0.96472929 2.06788205] w\_new= [-0.03261168 0.96472926 2.06788241]

gradient= [-3.43495734e-05 -2.40023475e-06 3.67498081e-05] w = [-0.03261168 0.96472926 2.06788241] w\_new= [-0.03261202 0.96472924 2.06788278]

gradient= [-3.42995582e-05 -2.39697730e-06 3.66965355e-05] w = [-0.03261202 0.96472924 2.06788278] w\_new= [-0.03261236 0.96472921 2.06788315]

gradient= [-3.42496158e-05 -2.39372423e-06 3.66433400e-05] w = [-0.03261236 0.96472921 2.06788315] w\_new= [-0.0326127 0.96472919 2.06788351]

gradient= [-3.41997462e-05 -2.39047552e-06 3.65902217e-05] w = [-0.0326127 0.96472919 2.06788351] w\_new= [-0.03261305 0.96472917 2.06788388]

gradient= [-3.41499492e-05 -2.38723119e-06 3.65371804e-05] w = [-0.03261305 0.96472917 2.06788388] w\_new= [-0.03261339 0.96472914 2.06788425]

gradient= [-3.41002247e-05 -2.38399121e-06 3.64842159e-05] w = [-0.03261339 0.96472914 2.06788425] w\_new= [-0.03261373 0.96472912 2.06788461]

gradient= [-3.40505727e-05 -2.38075559e-06 3.64313282e-05] w = [-0.03261373 0.96472912 2.06788461] w\_new= [-0.03261407 0.96472909 2.06788497]

gradient= [-3.40009929e-05 -2.37752432e-06 3.63785172e-05] w = [-0.03261407 0.96472909 2.06788497] w\_new= [-0.03261441 0.96472907 2.06788534]

gradient= [-3.39514854e-05 -2.37429739e-06 3.63257828e-05] w = [-0.03261441 0.96472907 2.06788534] w\_new= [-0.03261475 0.96472905 2.0678857 ]

gradient= [-3.39020500e-05 -2.37107480e-06 3.62731248e-05] w = [-0.03261475 0.96472905 2.0678857 ] w\_new= [-0.03261509 0.96472902 2.06788606]

gradient= [-3.38526866e-05 -2.36785654e-06 3.62205431e-05] w = [-0.03261509 0.96472902 2.06788606] w\_new= [-0.03261543 0.964729 2.06788643]

gradient= [-3.38033951e-05 -2.36464260e-06 3.61680377e-05] w = [-0.03261543 0.964729 2.06788643] w\_new= [-0.03261576 0.96472898 2.06788679]

gradient= [-3.37541753e-05 -2.36143299e-06 3.61156083e-05] w = [-0.03261576 0.96472898 2.06788679] w\_new= [-0.0326161 0.96472895 2.06788715]

gradient= [-3.37050273e-05 -2.35822769e-06 3.60632550e-05] w = [-0.0326161 0.96472895 2.06788715] w\_new= [-0.03261644 0.96472893 2.06788751]

gradient= [-3.36559508e-05 -2.35502669e-06 3.60109775e-05] w = [-0.03261644 0.96472893 2.06788751] w\_new= [-0.03261678 0.96472891 2.06788787]

gradient= [-3.36069459e-05 -2.35183000e-06 3.59587759e-05] w = [-0.03261678 0.96472891 2.06788787] w\_new= [-0.03261711 0.96472888 2.06788823]

gradient= [-3.35580123e-05 -2.34863761e-06 3.59066499e-05] w = [-0.03261711 0.96472888 2.06788823] w\_new= [-0.03261745 0.96472886 2.06788859]

gradient= [-3.35091499e-05 -2.34544951e-06 3.58545994e-05] w = [-0.03261745 0.96472886 2.06788859] w\_new= [-0.03261778 0.96472884 2.06788895]

gradient= [-3.34603588e-05 -2.34226569e-06 3.58026244e-05] w = [-0.03261778 0.96472884 2.06788895] w\_new= [-0.03261812 0.96472881 2.06788931]

gradient= [-3.34116386e-05 -2.33908616e-06 3.57507248e-05] w = [-0.03261812 0.96472881 2.06788931] w\_new= [-0.03261845 0.96472879 2.06788966]

gradient= [-3.33629895e-05 -2.33591089e-06 3.56989004e-05] w = [-0.03261845 0.96472879 2.06788966] w\_new= [-0.03261878 0.96472876 2.06789002]

gradient= [-3.33144112e-05 -2.33273990e-06 3.56471511e-05] w = [-0.03261878 0.96472876 2.06789002] w\_new= [-0.03261912 0.96472874 2.06789038]

gradient= [-3.32659037e-05 -2.32957317e-06 3.55954768e-05] w = [-0.03261912 0.96472874 2.06789038] w\_new= [-0.03261945 0.96472872 2.06789073]

gradient= [-3.32174668e-05 -2.32641070e-06 3.55438775e-05] w = [-0.03261945 0.96472872 2.06789073] w\_new= [-0.03261978 0.9647287 2.06789109]

gradient= [-3.31691004e-05 -2.32325247e-06 3.54923529e-05] w = [-0.03261978 0.9647287 2.06789109] w\_new= [-0.03262011 0.96472867 2.06789144]

gradient= [-3.31208045e-05 -2.32009850e-06 3.54409030e-05] w = [-0.03262011 0.96472867 2.06789144] w\_new= [-0.03262045 0.96472865 2.0678918 ]

gradient= [-3.30725790e-05 -2.31694876e-06 3.53895277e-05] w = [-0.03262045 0.96472865 2.0678918 ] w\_new= [-0.03262078 0.96472863 2.06789215]

gradient= [-3.30244236e-05 -2.31380326e-06 3.53382269e-05] w = [-0.03262078 0.96472863 2.06789215] w\_new= [-0.03262111 0.9647286 2.0678925 ]

gradient= [-3.29763385e-05 -2.31066198e-06 3.52870004e-05] w = [-0.03262111 0.9647286 2.0678925 ] w\_new= [-0.03262144 0.96472858 2.06789286]

gradient= [-3.29283233e-05 -2.30752494e-06 3.52358482e-05] w = [-0.03262144 0.96472858 2.06789286] w\_new= [-0.03262177 0.96472856 2.06789321]

gradient= [-3.28803781e-05 -2.30439210e-06 3.51847702e-05] w = [-0.03262177 0.96472856 2.06789321] w\_new= [-0.03262209 0.96472853 2.06789356]

gradient= [-3.28325027e-05 -2.30126348e-06 3.51337662e-05] w = [-0.03262209 0.96472853 2.06789356] w\_new= [-0.03262242 0.96472851 2.06789391]

gradient= [-3.27846970e-05 -2.29813907e-06 3.50828361e-05] w = [-0.03262242 0.96472851 2.06789391] w\_new= [-0.03262275 0.96472849 2.06789426]

gradient= [-3.27369610e-05 -2.29501886e-06 3.50319799e-05] w = [-0.03262275 0.96472849 2.06789426] w\_new= [-0.03262308 0.96472846 2.06789461]

gradient= [-3.26892945e-05 -2.29190284e-06 3.49811973e-05] w = [-0.03262308 0.96472846 2.06789461] w\_new= [-0.0326234 0.96472844 2.06789496]

gradient= [-3.26416974e-05 -2.28879101e-06 3.49304884e-05] w = [-0.0326234 0.96472844 2.06789496] w\_new= [-0.03262373 0.96472842 2.06789531]

gradient= [-3.25941696e-05 -2.28568337e-06 3.48798530e-05] w = [-0.03262373 0.96472842 2.06789531] w\_new= [-0.03262406 0.9647284 2.06789566]

gradient= [-3.25467111e-05 -2.28257991e-06 3.48292910e-05] w = [-0.03262406 0.9647284 2.06789566] w\_new= [-0.03262438 0.96472837 2.06789601]

gradient= [-3.24993217e-05 -2.27948062e-06 3.47788023e-05] w = [-0.03262438 0.96472837 2.06789601] w\_new= [-0.03262471 0.96472835 2.06789636]

gradient= [-3.24520013e-05 -2.27638549e-06 3.47283868e-05] w = [-0.03262471 0.96472835 2.06789636] w\_new= [-0.03262503 0.96472833 2.06789671]

gradient= [-3.24047498e-05 -2.27329453e-06 3.46780443e-05] w = [-0.03262503 0.96472833 2.06789671] w\_new= [-0.03262536 0.9647283 2.06789705]

gradient= [-3.23575671e-05 -2.27020773e-06 3.46277748e-05] w = [-0.03262536 0.9647283 2.06789705] w\_new= [-0.03262568 0.96472828 2.0678974 ]

gradient= [-3.23104532e-05 -2.26712507e-06 3.45775782e-05] w = [-0.03262568 0.96472828 2.0678974 ] w\_new= [-0.032626 0.96472826 2.06789774]

gradient= [-3.22634078e-05 -2.26404656e-06 3.45274544e-05] w = [-0.032626 0.96472826 2.06789774] w\_new= [-0.03262633 0.96472824 2.06789809]

gradient= [-3.22164310e-05 -2.26097219e-06 3.44774032e-05] w = [-0.03262633 0.96472824 2.06789809] w\_new= [-0.03262665 0.96472821 2.06789843]

gradient= [-3.21695226e-05 -2.25790196e-06 3.44274246e-05] w = [-0.03262665 0.96472821 2.06789843] w\_new= [-0.03262697 0.96472819 2.06789878]

gradient= [-3.21226826e-05 -2.25483585e-06 3.43775184e-05] w = [-0.03262697 0.96472819 2.06789878] w\_new= [-0.03262729 0.96472817 2.06789912]

gradient= [-3.20759107e-05 -2.25177387e-06 3.43276846e-05] w = [-0.03262729 0.96472817 2.06789912] w\_new= [-0.03262761 0.96472815 2.06789947]

gradient= [-3.20292070e-05 -2.24871601e-06 3.42779230e-05] w = [-0.03262761 0.96472815 2.06789947] w\_new= [-0.03262793 0.96472812 2.06789981]

gradient= [-3.19825713e-05 -2.24566226e-06 3.42282335e-05] w = [-0.03262793 0.96472812 2.06789981] w\_new= [-0.03262825 0.9647281 2.06790015]

gradient= [-3.19360035e-05 -2.24261261e-06 3.41786161e-05] w = [-0.03262825 0.9647281 2.06790015] w\_new= [-0.03262857 0.96472808 2.06790049]

gradient= [-3.18895035e-05 -2.23956707e-06 3.41290706e-05] w = [-0.03262857 0.96472808 2.06790049] w\_new= [-0.03262889 0.96472806 2.06790083]

gradient= [-3.18430713e-05 -2.23652562e-06 3.40795969e-05] w = [-0.03262889 0.96472806 2.06790083] w\_new= [-0.03262921 0.96472803 2.06790117]

gradient= [-3.17967067e-05 -2.23348827e-06 3.40301949e-05] w = [-0.03262921 0.96472803 2.06790117] w\_new= [-0.03262953 0.96472801 2.06790151]

gradient= [-3.17504096e-05 -2.23045500e-06 3.39808646e-05] w = [-0.03262953 0.96472801 2.06790151] w\_new= [-0.03262984 0.96472799 2.06790185]

gradient= [-3.17041799e-05 -2.22742581e-06 3.39316057e-05] w = [-0.03262984 0.96472799 2.06790185] w\_new= [-0.03263016 0.96472797 2.06790219]

gradient= [-3.16580176e-05 -2.22440069e-06 3.38824183e-05] w = [-0.03263016 0.96472797 2.06790219] w\_new= [-0.03263048 0.96472794 2.06790253]

gradient= [-3.16119225e-05 -2.22137964e-06 3.38333021e-05] w = [-0.03263048 0.96472794 2.06790253] w\_new= [-0.03263079 0.96472792 2.06790287]

gradient= [-3.15658945e-05 -2.21836266e-06 3.37842572e-05] w = [-0.03263079 0.96472792 2.06790287] w\_new= [-0.03263111 0.9647279 2.06790321]

gradient= [-3.15199336e-05 -2.21534973e-06 3.37352833e-05] w = [-0.03263111 0.9647279 2.06790321] w\_new= [-0.03263142 0.96472788 2.06790355]

gradient= [-3.14740396e-05 -2.21234086e-06 3.36863805e-05] w = [-0.03263142 0.96472788 2.06790355] w\_new= [-0.03263174 0.96472786 2.06790388]

gradient= [-3.14282125e-05 -2.20933603e-06 3.36375485e-05] w = [-0.03263174 0.96472786 2.06790388] w\_new= [-0.03263205 0.96472783 2.06790422]

gradient= [-3.13824521e-05 -2.20633525e-06 3.35887873e-05] w = [-0.03263205 0.96472783 2.06790422] w\_new= [-0.03263237 0.96472781 2.06790456]

gradient= [-3.13367583e-05 -2.20333850e-06 3.35400968e-05] w = [-0.03263237 0.96472781 2.06790456] w\_new= [-0.03263268 0.96472779 2.06790489]

gradient= [-3.12911311e-05 -2.20034579e-06 3.34914769e-05] w = [-0.03263268 0.96472779 2.06790489] w\_new= [-0.03263299 0.96472777 2.06790523]

gradient= [-3.12455704e-05 -2.19735710e-06 3.34429274e-05] w = [-0.03263299 0.96472777 2.06790523] w\_new= [-0.03263331 0.96472775 2.06790556]

gradient= [-3.12000760e-05 -2.19437243e-06 3.33944484e-05] w = [-0.03263331 0.96472775 2.06790556] w\_new= [-0.03263362 0.96472772 2.06790589]

gradient= [-3.11546478e-05 -2.19139177e-06 3.33460396e-05] w = [-0.03263362 0.96472772 2.06790589] w\_new= [-0.03263393 0.9647277 2.06790623]

gradient= [-3.11092858e-05 -2.18841513e-06 3.32977010e-05] w = [-0.03263393 0.9647277 2.06790623] w\_new= [-0.03263424 0.96472768 2.06790656]

gradient= [-3.10639899e-05 -2.18544249e-06 3.32494324e-05] w = [-0.03263424 0.96472768 2.06790656] w\_new= [-0.03263455 0.96472766 2.06790689]

gradient= [-3.10187600e-05 -2.18247385e-06 3.32012338e-05] w = [-0.03263455 0.96472766 2.06790689] w\_new= [-0.03263486 0.96472764 2.06790722]

gradient= [-3.09735959e-05 -2.17950920e-06 3.31531051e-05] w = [-0.03263486 0.96472764 2.06790722] w\_new= [-0.03263517 0.96472761 2.06790756]

gradient= [-3.09284976e-05 -2.17654855e-06 3.31050462e-05] w = [-0.03263517 0.96472761 2.06790756] w\_new= [-0.03263548 0.96472759 2.06790789]

gradient= [-3.08834650e-05 -2.17359187e-06 3.30570569e-05] w = [-0.03263548 0.96472759 2.06790789] w\_new= [-0.03263579 0.96472757 2.06790822]

gradient= [-3.08384980e-05 -2.17063918e-06 3.30091372e-05] w = [-0.03263579 0.96472757 2.06790822] w\_new= [-0.0326361 0.96472755 2.06790855]

gradient= [-3.07935965e-05 -2.16769045e-06 3.29612869e-05] w = [-0.0326361 0.96472755 2.06790855] w\_new= [-0.03263641 0.96472753 2.06790888]

gradient= [-3.07487603e-05 -2.16474569e-06 3.29135060e-05] w = [-0.03263641 0.96472753 2.06790888] w\_new= [-0.03263671 0.96472751 2.06790921]

gradient= [-3.07039895e-05 -2.16180490e-06 3.28657944e-05] w = [-0.03263671 0.96472751 2.06790921] w\_new= [-0.03263702 0.96472748 2.06790954]

gradient= [-3.06592838e-05 -2.15886806e-06 3.28181519e-05] w = [-0.03263702 0.96472748 2.06790954] w\_new= [-0.03263733 0.96472746 2.06790986]

gradient= [-3.06146433e-05 -2.15593518e-06 3.27705785e-05] w = [-0.03263733 0.96472746 2.06790986] w\_new= [-0.03263763 0.96472744 2.06791019]

gradient= [-3.05700678e-05 -2.15300624e-06 3.27230741e-05] w = [-0.03263763 0.96472744 2.06791019] w\_new= [-0.03263794 0.96472742 2.06791052]

gradient= [-3.05255572e-05 -2.15008124e-06 3.26756385e-05] w = [-0.03263794 0.96472742 2.06791052] w\_new= [-0.03263824 0.9647274 2.06791085]

gradient= [-3.04811115e-05 -2.14716018e-06 3.26282716e-05] w = [-0.03263824 0.9647274 2.06791085] w\_new= [-0.03263855 0.96472738 2.06791117]

gradient= [-3.04367304e-05 -2.14424304e-06 3.25809735e-05] w = [-0.03263855 0.96472738 2.06791117] w\_new= [-0.03263885 0.96472736 2.0679115 ]

gradient= [-3.03924140e-05 -2.14132984e-06 3.25337439e-05] w = [-0.03263885 0.96472736 2.0679115 ] w\_new= [-0.03263916 0.96472733 2.06791182]

gradient= [-3.03481622e-05 -2.13842055e-06 3.24865827e-05] w = [-0.03263916 0.96472733 2.06791182] w\_new= [-0.03263946 0.96472731 2.06791215]

gradient= [-3.03039748e-05 -2.13551518e-06 3.24394900e-05] w = [-0.03263946 0.96472731 2.06791215] w\_new= [-0.03263976 0.96472729 2.06791247]

gradient= [-3.02598517e-05 -2.13261372e-06 3.23924655e-05] w = [-0.03263976 0.96472729 2.06791247] w\_new= [-0.03264007 0.96472727 2.0679128 ]

gradient= [-3.02157930e-05 -2.12971616e-06 3.23455091e-05] w = [-0.03264007 0.96472727 2.0679128 ] w\_new= [-0.03264037 0.96472725 2.06791312]

gradient= [-3.01717983e-05 -2.12682250e-06 3.22986208e-05] w = [-0.03264037 0.96472725 2.06791312] w\_new= [-0.03264067 0.96472723 2.06791344]

gradient= [-3.01278678e-05 -2.12393274e-06 3.22518005e-05] w = [-0.03264067 0.96472723 2.06791344] w\_new= [-0.03264097 0.96472721 2.06791376]

gradient= [-3.00840012e-05 -2.12104687e-06 3.22050481e-05] w = [-0.03264097 0.96472721 2.06791376] w\_new= [-0.03264127 0.96472719 2.06791409]

gradient= [-3.00401985e-05 -2.11816488e-06 3.21583634e-05] w = [-0.03264127 0.96472719 2.06791409] w\_new= [-0.03264157 0.96472716 2.06791441]

gradient= [-2.99964597e-05 -2.11528676e-06 3.21117464e-05] w = [-0.03264157 0.96472716 2.06791441] w\_new= [-0.03264187 0.96472714 2.06791473]

gradient= [-2.99527845e-05 -2.11241253e-06 3.20651970e-05] w = [-0.03264187 0.96472714 2.06791473] w\_new= [-0.03264217 0.96472712 2.06791505]

gradient= [-2.99091729e-05 -2.10954216e-06 3.20187151e-05] w = [-0.03264217 0.96472712 2.06791505] w\_new= [-0.03264247 0.9647271 2.06791537]

gradient= [-2.98656248e-05 -2.10667565e-06 3.19723005e-05] w = [-0.03264247 0.9647271 2.06791537] w\_new= [-0.03264277 0.96472708 2.06791569]

gradient= [-2.98221402e-05 -2.10381300e-06 3.19259532e-05] w = [-0.03264277 0.96472708 2.06791569] w\_new= [-0.03264307 0.96472706 2.06791601]

gradient= [-2.97787189e-05 -2.10095420e-06 3.18796731e-05] w = [-0.03264307 0.96472706 2.06791601] w\_new= [-0.03264337 0.96472704 2.06791633]

gradient= [-2.97353608e-05 -2.09809926e-06 3.18334601e-05] w = [-0.03264337 0.96472704 2.06791633] w\_new= [-0.03264366 0.96472702 2.06791665]

gradient= [-2.96920659e-05 -2.09524815e-06 3.17873141e-05] w = [-0.03264366 0.96472702 2.06791665] w\_new= [-0.03264396 0.964727 2.06791696]

gradient= [-2.96488341e-05 -2.09240088e-06 3.17412349e-05] w = [-0.03264396 0.964727 2.06791696] w\_new= [-0.03264426 0.96472697 2.06791728]

gradient= [-2.96056652e-05 -2.08955745e-06 3.16952226e-05] w = [-0.03264426 0.96472697 2.06791728] w\_new= [-0.03264455 0.96472695 2.0679176 ]

gradient= [-2.95625591e-05 -2.08671784e-06 3.16492770e-05] w = [-0.03264455 0.96472695 2.0679176 ] w\_new= [-0.03264485 0.96472693 2.06791792]

gradient= [-2.95195159e-05 -2.08388205e-06 3.16033979e-05] w = [-0.03264485 0.96472693 2.06791792] w\_new= [-0.03264514 0.96472691 2.06791823]

gradient= [-2.94765353e-05 -2.08105009e-06 3.15575854e-05] w = [-0.03264514 0.96472691 2.06791823] w\_new= [-0.03264544 0.96472689 2.06791855]

gradient= [-2.94336173e-05 -2.07822193e-06 3.15118393e-05] w = [-0.03264544 0.96472689 2.06791855] w\_new= [-0.03264573 0.96472687 2.06791886]

gradient= [-2.93907619e-05 -2.07539758e-06 3.14661595e-05] w = [-0.03264573 0.96472687 2.06791886] w\_new= [-0.03264603 0.96472685 2.06791918]

gradient= [-2.93479688e-05 -2.07257703e-06 3.14205459e-05] w = [-0.03264603 0.96472685 2.06791918] w\_new= [-0.03264632 0.96472683 2.06791949]

gradient= [-2.93052381e-05 -2.06976028e-06 3.13749984e-05] w = [-0.03264632 0.96472683 2.06791949] w\_new= [-0.03264661 0.96472681 2.0679198 ]

gradient= [-2.92625696e-05 -2.06694732e-06 3.13295169e-05] w = [-0.03264661 0.96472681 2.0679198 ] w\_new= [-0.03264691 0.96472679 2.06792012]

gradient= [-2.92199633e-05 -2.06413815e-06 3.12841014e-05] w = [-0.03264691 0.96472679 2.06792012] w\_new= [-0.0326472 0.96472677 2.06792043]

gradient= [-2.91774190e-05 -2.06133276e-06 3.12387517e-05] w = [-0.0326472 0.96472677 2.06792043] w\_new= [-0.03264749 0.96472675 2.06792074]

gradient= [-2.91349366e-05 -2.05853115e-06 3.11934678e-05] w = [-0.03264749 0.96472675 2.06792074] w\_new= [-0.03264778 0.96472673 2.06792106]

gradient= [-2.90925162e-05 -2.05573331e-06 3.11482495e-05] w = [-0.03264778 0.96472673 2.06792106] w\_new= [-0.03264807 0.96472671 2.06792137]

gradient= [-2.90501575e-05 -2.05293923e-06 3.11030967e-05] w = [-0.03264807 0.96472671 2.06792137] w\_new= [-0.03264836 0.96472668 2.06792168]

gradient= [-2.90078605e-05 -2.05014892e-06 3.10580094e-05] w = [-0.03264836 0.96472668 2.06792168] w\_new= [-0.03264865 0.96472666 2.06792199]

gradient= [-2.89656251e-05 -2.04736236e-06 3.10129874e-05] w = [-0.03264865 0.96472666 2.06792199] w\_new= [-0.03264894 0.96472664 2.0679223 ]

gradient= [-2.89234512e-05 -2.04457956e-06 3.09680308e-05] w = [-0.03264894 0.96472664 2.0679223 ] w\_new= [-0.03264923 0.96472662 2.06792261]

gradient= [-2.88813387e-05 -2.04180050e-06 3.09231392e-05] w = [-0.03264923 0.96472662 2.06792261] w\_new= [-0.03264952 0.9647266 2.06792292]

gradient= [-2.88392876e-05 -2.03902519e-06 3.08783128e-05] w = [-0.03264952 0.9647266 2.06792292] w\_new= [-0.03264981 0.96472658 2.06792323]

gradient= [-2.87972977e-05 -2.03625361e-06 3.08335513e-05] w = [-0.03264981 0.96472658 2.06792323] w\_new= [-0.0326501 0.96472656 2.06792353]

gradient= [-2.87553690e-05 -2.03348576e-06 3.07888547e-05] w = [-0.0326501 0.96472656 2.06792353] w\_new= [-0.03265038 0.96472654 2.06792384]

gradient= [-2.87135013e-05 -2.03072164e-06 3.07442229e-05] w = [-0.03265038 0.96472654 2.06792384] w\_new= [-0.03265067 0.96472652 2.06792415]

gradient= [-2.86716946e-05 -2.02796124e-06 3.06996558e-05] w = [-0.03265067 0.96472652 2.06792415] w\_new= [-0.03265096 0.9647265 2.06792446]

gradient= [-2.86299488e-05 -2.02520456e-06 3.06551533e-05] w = [-0.03265096 0.9647265 2.06792446] w\_new= [-0.03265124 0.96472648 2.06792476]

gradient= [-2.85882638e-05 -2.02245159e-06 3.06107154e-05] w = [-0.03265124 0.96472648 2.06792476] w\_new= [-0.03265153 0.96472646 2.06792507]

gradient= [-2.85466395e-05 -2.01970232e-06 3.05663418e-05] w = [-0.03265153 0.96472646 2.06792507] w\_new= [-0.03265182 0.96472644 2.06792538]

gradient= [-2.85050758e-05 -2.01695676e-06 3.05220325e-05] w = [-0.03265182 0.96472644 2.06792538] w\_new= [-0.0326521 0.96472642 2.06792568]

gradient= [-2.84635726e-05 -2.01421490e-06 3.04777875e-05] w = [-0.0326521 0.96472642 2.06792568] w\_new= [-0.03265239 0.9647264 2.06792599]

gradient= [-2.84221299e-05 -2.01147673e-06 3.04336067e-05] w = [-0.03265239 0.9647264 2.06792599] w\_new= [-0.03265267 0.96472638 2.06792629]

gradient= [-2.83807476e-05 -2.00874224e-06 3.03894898e-05] w = [-0.03265267 0.96472638 2.06792629] w\_new= [-0.03265295 0.96472636 2.06792659]

gradient= [-2.83394255e-05 -2.00601144e-06 3.03454369e-05] w = [-0.03265295 0.96472636 2.06792659] w\_new= [-0.03265324 0.96472634 2.0679269 ]

gradient= [-2.82981636e-05 -2.00328432e-06 3.03014479e-05] w = [-0.03265324 0.96472634 2.0679269 ] w\_new= [-0.03265352 0.96472632 2.0679272 ]

gradient= [-2.82569618e-05 -2.00056086e-06 3.02575226e-05] w = [-0.03265352 0.96472632 2.0679272 ] w\_new= [-0.0326538 0.9647263 2.0679275]

gradient= [-2.82158200e-05 -1.99784108e-06 3.02136610e-05] w = [-0.0326538 0.9647263 2.0679275] w\_new= [-0.03265408 0.96472628 2.0679278 ]

gradient= [-2.81747381e-05 -1.99512496e-06 3.01698630e-05] w = [-0.03265408 0.96472628 2.0679278 ] w\_new= [-0.03265437 0.96472626 2.06792811]

gradient= [-2.81337160e-05 -1.99241249e-06 3.01261285e-05] w = [-0.03265437 0.96472626 2.06792811] w\_new= [-0.03265465 0.96472624 2.06792841]

gradient= [-2.80927537e-05 -1.98970368e-06 3.00824574e-05] w = [-0.03265465 0.96472624 2.06792841] w\_new= [-0.03265493 0.96472622 2.06792871]

gradient= [-2.80518510e-05 -1.98699852e-06 3.00388496e-05] w = [-0.03265493 0.96472622 2.06792871] w\_new= [-0.03265521 0.9647262 2.06792901]

gradient= [-2.8011008e-05 -1.9842970e-06 2.9995305e-05] w = [-0.03265521 0.9647262 2.06792901] w\_new= [-0.03265549 0.96472618 2.06792931]

gradient= [-2.79702243e-05 -1.98159912e-06 2.99518235e-05] w = [-0.03265549 0.96472618 2.06792931] w\_new= [-0.03265577 0.96472616 2.06792961]

gradient= [-2.79295001e-05 -1.97890488e-06 2.99084050e-05] w = [-0.03265577 0.96472616 2.06792961] w\_new= [-0.03265605 0.96472614 2.06792991]

gradient= [-2.78888352e-05 -1.97621426e-06 2.98650495e-05] w = [-0.03265605 0.96472614 2.06792991] w\_new= [-0.03265633 0.96472612 2.06793021]

gradient= [-2.78482296e-05 -1.97352726e-06 2.98217568e-05] w = [-0.03265633 0.96472612 2.06793021] w\_new= [-0.03265661 0.9647261 2.0679305 ]

gradient= [-2.78076830e-05 -1.97084389e-06 2.97785269e-05] w = [-0.03265661 0.9647261 2.0679305 ] w\_new= [-0.03265688 0.96472608 2.0679308 ]

gradient= [-2.77671955e-05 -1.96816413e-06 2.97353596e-05] w = [-0.03265688 0.96472608 2.0679308 ] w\_new= [-0.03265716 0.96472606 2.0679311 ]

gradient= [-2.77267670e-05 -1.96548798e-06 2.96922550e-05] w = [-0.03265716 0.96472606 2.0679311 ] w\_new= [-0.03265744 0.96472604 2.0679314 ]

gradient= [-2.76863973e-05 -1.96281543e-06 2.96492128e-05] w = [-0.03265744 0.96472604 2.0679314 ] w\_new= [-0.03265772 0.96472602 2.06793169]

gradient= [-2.76460865e-05 -1.96014649e-06 2.96062330e-05] w = [-0.03265772 0.96472602 2.06793169] w\_new= [-0.03265799 0.964726 2.06793199]

gradient= [-2.76058343e-05 -1.95748113e-06 2.95633155e-05] w = [-0.03265799 0.964726 2.06793199] w\_new= [-0.03265827 0.96472598 2.06793228]

gradient= [-2.75656408e-05 -1.95481937e-06 2.95204602e-05] w = [-0.03265827 0.96472598 2.06793228] w\_new= [-0.03265854 0.96472596 2.06793258]

gradient= [-2.75255058e-05 -1.95216120e-06 2.94776670e-05] w = [-0.03265854 0.96472596 2.06793258] w\_new= [-0.03265882 0.96472594 2.06793287]

gradient= [-2.74854293e-05 -1.94950660e-06 2.94349359e-05] w = [-0.03265882 0.96472594 2.06793287] w\_new= [-0.03265909 0.96472592 2.06793317]

gradient= [-2.74454111e-05 -1.94685559e-06 2.93922667e-05] w = [-0.03265909 0.96472592 2.06793317] w\_new= [-0.03265937 0.96472591 2.06793346]

gradient= [-2.74054512e-05 -1.94420814e-06 2.93496593e-05] w = [-0.03265937 0.96472591 2.06793346] w\_new= [-0.03265964 0.96472589 2.06793376]

gradient= [-2.73655495e-05 -1.94156426e-06 2.93071137e-05] w = [-0.03265964 0.96472589 2.06793376] w\_new= [-0.03265992 0.96472587 2.06793405]

gradient= [-2.73257059e-05 -1.93892394e-06 2.92646298e-05] w = [-0.03265992 0.96472587 2.06793405] w\_new= [-0.03266019 0.96472585 2.06793434]

gradient= [-2.72859203e-05 -1.93628718e-06 2.92222075e-05] w = [-0.03266019 0.96472585 2.06793434] w\_new= [-0.03266046 0.96472583 2.06793463]

gradient= [-2.72461927e-05 -1.93365397e-06 2.91798467e-05] w = [-0.03266046 0.96472583 2.06793463] w\_new= [-0.03266073 0.96472581 2.06793493]

gradient= [-2.72065229e-05 -1.93102431e-06 2.91375472e-05] w = [-0.03266073 0.96472581 2.06793493] w\_new= [-0.03266101 0.96472579 2.06793522]

gradient= [-2.71669109e-05 -1.92839819e-06 2.90953091e-05] w = [-0.03266101 0.96472579 2.06793522] w\_new= [-0.03266128 0.96472577 2.06793551]

gradient= [-2.71273566e-05 -1.92577561e-06 2.90531323e-05] w = [-0.03266128 0.96472577 2.06793551] w\_new= [-0.03266155 0.96472575 2.0679358 ]

gradient= [-2.70878599e-05 -1.92315656e-06 2.90110165e-05] w = [-0.03266155 0.96472575 2.0679358 ] w\_new= [-0.03266182 0.96472573 2.06793609]

gradient= [-2.70484208e-05 -1.92054104e-06 2.89689618e-05] w = [-0.03266182 0.96472573 2.06793609] w\_new= [-0.03266209 0.96472571 2.06793638]

gradient= [-2.70090390e-05 -1.91792904e-06 2.89269681e-05] w = [-0.03266209 0.96472571 2.06793638] w\_new= [-0.03266236 0.96472569 2.06793667]

gradient= [-2.69697146e-05 -1.91532057e-06 2.88850352e-05] w = [-0.03266236 0.96472569 2.06793667] w\_new= [-0.03266263 0.96472567 2.06793696]

gradient= [-2.69304475e-05 -1.91271561e-06 2.88431631e-05] w = [-0.03266263 0.96472567 2.06793696] w\_new= [-0.0326629 0.96472565 2.06793724]

gradient= [-2.68912376e-05 -1.91011416e-06 2.88013518e-05] w = [-0.0326629 0.96472565 2.06793724] w\_new= [-0.03266317 0.96472564 2.06793753]

gradient= [-2.68520848e-05 -1.90751621e-06 2.87596010e-05] w = [-0.03266317 0.96472564 2.06793753] w\_new= [-0.03266344 0.96472562 2.06793782]

gradient= [-2.68129890e-05 -1.90492177e-06 2.87179107e-05] w = [-0.03266344 0.96472562 2.06793782] w\_new= [-0.03266371 0.9647256 2.06793811]

gradient= [-2.67739501e-05 -1.90233082e-06 2.86762809e-05] w = [-0.03266371 0.9647256 2.06793811] w\_new= [-0.03266397 0.96472558 2.06793839]

gradient= [-2.67349681e-05 -1.89974336e-06 2.86347114e-05] w = [-0.03266397 0.96472558 2.06793839] w\_new= [-0.03266424 0.96472556 2.06793868]

gradient= [-2.66960428e-05 -1.89715939e-06 2.85932022e-05] w = [-0.03266424 0.96472556 2.06793868] w\_new= [-0.03266451 0.96472554 2.06793897]

gradient= [-2.66571743e-05 -1.89457890e-06 2.85517532e-05] w = [-0.03266451 0.96472554 2.06793897] w\_new= [-0.03266477 0.96472552 2.06793925]

gradient= [-2.66183623e-05 -1.89200188e-06 2.85103642e-05] w = [-0.03266477 0.96472552 2.06793925] w\_new= [-0.03266504 0.9647255 2.06793954]

gradient= [-2.65796069e-05 -1.88942835e-06 2.84690352e-05] w = [-0.03266504 0.9647255 2.06793954] w\_new= [-0.03266531 0.96472548 2.06793982]

gradient= [-2.65409079e-05 -1.88685827e-06 2.84277662e-05] w = [-0.03266531 0.96472548 2.06793982] w\_new= [-0.03266557 0.96472546 2.06794011]

gradient= [-2.65022653e-05 -1.88429167e-06 2.83865569e-05] w = [-0.03266557 0.96472546 2.06794011] w\_new= [-0.03266584 0.96472545 2.06794039]

gradient= [-2.64636789e-05 -1.88172852e-06 2.83454074e-05] w = [-0.03266584 0.96472545 2.06794039] w\_new= [-0.0326661 0.96472543 2.06794067]

gradient= [-2.64251488e-05 -1.87916882e-06 2.83043176e-05] w = [-0.0326661 0.96472543 2.06794067] w\_new= [-0.03266637 0.96472541 2.06794096]

gradient= [-2.63866747e-05 -1.87661258e-06 2.82632873e-05] w = [-0.03266637 0.96472541 2.06794096] w\_new= [-0.03266663 0.96472539 2.06794124]

gradient= [-2.63482567e-05 -1.87405978e-06 2.82223165e-05] w = [-0.03266663 0.96472539 2.06794124] w\_new= [-0.03266689 0.96472537 2.06794152]

gradient= [-2.63098946e-05 -1.87151042e-06 2.81814051e-05] w = [-0.03266689 0.96472537 2.06794152] w\_new= [-0.03266716 0.96472535 2.0679418 ]

gradient= [-2.62715884e-05 -1.86896449e-06 2.81405529e-05] w = [-0.03266716 0.96472535 2.0679418 ] w\_new= [-0.03266742 0.96472533 2.06794208]

gradient= [-2.6233338e-05 -1.8664220e-06 2.8099760e-05] w = [-0.03266742 0.96472533 2.06794208] w\_new= [-0.03266768 0.96472531 2.06794237]

gradient= [-2.61951433e-05 -1.86388293e-06 2.80590263e-05] w = [-0.03266768 0.96472531 2.06794237] w\_new= [-0.03266794 0.9647253 2.06794265]

gradient= [-2.61570042e-05 -1.86134729e-06 2.80183515e-05] w = [-0.03266794 0.9647253 2.06794265] w\_new= [-0.0326682 0.96472528 2.06794293]

gradient= [-2.61189207e-05 -1.85881506e-06 2.79777358e-05] w = [-0.0326682 0.96472528 2.06794293] w\_new= [-0.03266847 0.96472526 2.06794321]

gradient= [-2.60808926e-05 -1.85628625e-06 2.79371789e-05] w = [-0.03266847 0.96472526 2.06794321] w\_new= [-0.03266873 0.96472524 2.06794349]

gradient= [-2.60429199e-05 -1.85376084e-06 2.78966808e-05] w = [-0.03266873 0.96472524 2.06794349] w\_new= [-0.03266899 0.96472522 2.06794376]

gradient= [-2.60050025e-05 -1.85123884e-06 2.78562414e-05] w = [-0.03266899 0.96472522 2.06794376] w\_new= [-0.03266925 0.9647252 2.06794404]

gradient= [-2.59671404e-05 -1.84872024e-06 2.78158606e-05] w = [-0.03266925 0.9647252 2.06794404] w\_new= [-0.03266951 0.96472518 2.06794432]

gradient= [-2.59293333e-05 -1.84620503e-06 2.77755384e-05] w = [-0.03266951 0.96472518 2.06794432] w\_new= [-0.03266977 0.96472517 2.0679446 ]

gradient= [-2.58915814e-05 -1.84369322e-06 2.77352746e-05] w = [-0.03266977 0.96472517 2.0679446 ] w\_new= [-0.03267002 0.96472515 2.06794488]

gradient= [-2.58538844e-05 -1.84118479e-06 2.76950692e-05] w = [-0.03267002 0.96472515 2.06794488] w\_new= [-0.03267028 0.96472513 2.06794515]

gradient= [-2.58162423e-05 -1.83867974e-06 2.76549220e-05] w = [-0.03267028 0.96472513 2.06794515] w\_new= [-0.03267054 0.96472511 2.06794543]

gradient= [-2.57786550e-05 -1.83617806e-06 2.76148331e-05] w = [-0.03267054 0.96472511 2.06794543] w\_new= [-0.0326708 0.96472509 2.06794571]

gradient= [-2.57411225e-05 -1.83367976e-06 2.75748022e-05] w = [-0.0326708 0.96472509 2.06794571] w\_new= [-0.03267106 0.96472507 2.06794598]

gradient= [-2.57036446e-05 -1.83118483e-06 2.75348294e-05] w = [-0.03267106 0.96472507 2.06794598] w\_new= [-0.03267131 0.96472506 2.06794626]

gradient= [-2.56662213e-05 -1.82869326e-06 2.74949145e-05] w = [-0.03267131 0.96472506 2.06794626] w\_new= [-0.03267157 0.96472504 2.06794653]

gradient= [-2.56288525e-05 -1.82620505e-06 2.74550575e-05] w = [-0.03267157 0.96472504 2.06794653] w\_new= [-0.03267183 0.96472502 2.06794681]

gradient= [-2.55915381e-05 -1.82372020e-06 2.74152583e-05] w = [-0.03267183 0.96472502 2.06794681] w\_new= [-0.03267208 0.964725 2.06794708]

gradient= [-2.55542781e-05 -1.82123869e-06 2.73755168e-05] w = [-0.03267208 0.964725 2.06794708] w\_new= [-0.03267234 0.96472498 2.06794735]

gradient= [-2.55170723e-05 -1.81876053e-06 2.73358328e-05] w = [-0.03267234 0.96472498 2.06794735] w\_new= [-0.03267259 0.96472496 2.06794763]

gradient= [-2.54799207e-05 -1.81628571e-06 2.72962064e-05] w = [-0.03267259 0.96472496 2.06794763] w\_new= [-0.03267285 0.96472495 2.0679479 ]

gradient= [-2.54428232e-05 -1.81381423e-06 2.72566374e-05] w = [-0.03267285 0.96472495 2.0679479 ] w\_new= [-0.0326731 0.96472493 2.06794817]

gradient= [-2.54057798e-05 -1.81134608e-06 2.72171258e-05] w = [-0.0326731 0.96472493 2.06794817] w\_new= [-0.03267336 0.96472491 2.06794845]

gradient= [-2.53687902e-05 -1.80888125e-06 2.71776715e-05] w = [-0.03267336 0.96472491 2.06794845] w\_new= [-0.03267361 0.96472489 2.06794872]

gradient= [-2.53318546e-05 -1.80641975e-06 2.71382743e-05] w = [-0.03267361 0.96472489 2.06794872] w\_new= [-0.03267386 0.96472487 2.06794899]

gradient= [-2.52949727e-05 -1.80396157e-06 2.70989343e-05] w = [-0.03267386 0.96472487 2.06794899] w\_new= [-0.03267412 0.96472486 2.06794926]

gradient= [-2.52581446e-05 -1.80150670e-06 2.70596513e-05] w = [-0.03267412 0.96472486 2.06794926] w\_new= [-0.03267437 0.96472484 2.06794953]

gradient= [-2.52213701e-05 -1.79905515e-06 2.70204252e-05] w = [-0.03267437 0.96472484 2.06794953] w\_new= [-0.03267462 0.96472482 2.0679498 ]

gradient= [-2.51846491e-05 -1.79660689e-06 2.69812560e-05] w = [-0.03267462 0.96472482 2.0679498 ] w\_new= [-0.03267487 0.9647248 2.06795007]

gradient= [-2.51479817e-05 -1.79416194e-06 2.69421436e-05] w = [-0.03267487 0.9647248 2.06795007] w\_new= [-0.03267512 0.96472478 2.06795034]

gradient= [-2.51113676e-05 -1.79172029e-06 2.69030879e-05] w = [-0.03267512 0.96472478 2.06795034] w\_new= [-0.03267538 0.96472477 2.06795061]

gradient= [-2.50748068e-05 -1.78928193e-06 2.68640887e-05] w = [-0.03267538 0.96472477 2.06795061] w\_new= [-0.03267563 0.96472475 2.06795088]

gradient= [-2.50382993e-05 -1.78684685e-06 2.68251462e-05] w = [-0.03267563 0.96472475 2.06795088] w\_new= [-0.03267588 0.96472473 2.06795115]

gradient= [-2.50018450e-05 -1.78441506e-06 2.67862600e-05] w = [-0.03267588 0.96472473 2.06795115] w\_new= [-0.03267613 0.96472471 2.06795141]

gradient= [-2.49654437e-05 -1.78198655e-06 2.67474302e-05] w = [-0.03267613 0.96472471 2.06795141] w\_new= [-0.03267638 0.9647247 2.06795168]

gradient= [-2.49290954e-05 -1.77956131e-06 2.67086568e-05] w = [-0.03267638 0.9647247 2.06795168] w\_new= [-0.03267663 0.96472468 2.06795195]

gradient= [-2.48928001e-05 -1.77713935e-06 2.66699395e-05] w = [-0.03267663 0.96472468 2.06795195] w\_new= [-0.03267687 0.96472466 2.06795221]

gradient= [-2.48565577e-05 -1.77472065e-06 2.66312783e-05] w = [-0.03267687 0.96472466 2.06795221] w\_new= [-0.03267712 0.96472464 2.06795248]

gradient= [-2.48203680e-05 -1.77230521e-06 2.65926732e-05] w = [-0.03267712 0.96472464 2.06795248] w\_new= [-0.03267737 0.96472462 2.06795275]

gradient= [-2.47842310e-05 -1.76989303e-06 2.65541241e-05] w = [-0.03267737 0.96472462 2.06795275] w\_new= [-0.03267762 0.96472461 2.06795301]

gradient= [-2.47481467e-05 -1.76748410e-06 2.65156308e-05] w = [-0.03267762 0.96472461 2.06795301] w\_new= [-0.03267787 0.96472459 2.06795328]

gradient= [-2.47121149e-05 -1.76507842e-06 2.64771933e-05] w = [-0.03267787 0.96472459 2.06795328] w\_new= [-0.03267811 0.96472457 2.06795354]

gradient= [-2.46761356e-05 -1.76267599e-06 2.64388115e-05] w = [-0.03267811 0.96472457 2.06795354] w\_new= [-0.03267836 0.96472455 2.06795381]

gradient= [-2.46402086e-05 -1.76027679e-06 2.64004854e-05] w = [-0.03267836 0.96472455 2.06795381] w\_new= [-0.03267861 0.96472454 2.06795407]

gradient= [-2.46043340e-05 -1.75788083e-06 2.63622149e-05] w = [-0.03267861 0.96472454 2.06795407] w\_new= [-0.03267885 0.96472452 2.06795433]

gradient= [-2.45685117e-05 -1.75548810e-06 2.63239998e-05] w = [-0.03267885 0.96472452 2.06795433] w\_new= [-0.0326791 0.9647245 2.0679546]

gradient= [-2.45327415e-05 -1.75309860e-06 2.62858401e-05] w = [-0.0326791 0.9647245 2.0679546] w\_new= [-0.03267934 0.96472448 2.06795486]

gradient= [-2.44970234e-05 -1.75071232e-06 2.62477357e-05] w = [-0.03267934 0.96472448 2.06795486] w\_new= [-0.03267959 0.96472447 2.06795512]

gradient= [-2.44613573e-05 -1.74832926e-06 2.62096865e-05] w = [-0.03267959 0.96472447 2.06795512] w\_new= [-0.03267983 0.96472445 2.06795539]

gradient= [-2.44257431e-05 -1.74594942e-06 2.61716925e-05] w = [-0.03267983 0.96472445 2.06795539] w\_new= [-0.03268008 0.96472443 2.06795565]

gradient= [-2.43901808e-05 -1.74357278e-06 2.61337536e-05] w = [-0.03268008 0.96472443 2.06795565] w\_new= [-0.03268032 0.96472441 2.06795591]

gradient= [-2.43546703e-05 -1.74119935e-06 2.60958697e-05] w = [-0.03268032 0.96472441 2.06795591] w\_new= [-0.03268057 0.9647244 2.06795617]

gradient= [-2.43192116e-05 -1.73882912e-06 2.60580407e-05] w = [-0.03268057 0.9647244 2.06795617] w\_new= [-0.03268081 0.96472438 2.06795643]

gradient= [-2.42838044e-05 -1.73646209e-06 2.60202665e-05] w = [-0.03268081 0.96472438 2.06795643] w\_new= [-0.03268105 0.96472436 2.06795669]

gradient= [-2.42484489e-05 -1.73409825e-06 2.59825471e-05] w = [-0.03268105 0.96472436 2.06795669] w\_new= [-0.03268129 0.96472434 2.06795695]

gradient= [-2.42131448e-05 -1.73173760e-06 2.59448824e-05] w = [-0.03268129 0.96472434 2.06795695] w\_new= [-0.03268154 0.96472433 2.06795721]

gradient= [-2.41778921e-05 -1.72938014e-06 2.59072722e-05] w = [-0.03268154 0.96472433 2.06795721] w\_new= [-0.03268178 0.96472431 2.06795747]

gradient= [-2.41426907e-05 -1.72702585e-06 2.58697166e-05] w = [-0.03268178 0.96472431 2.06795747] w\_new= [-0.03268202 0.96472429 2.06795773]

gradient= [-2.41075407e-05 -1.72467474e-06 2.58322154e-05] w = [-0.03268202 0.96472429 2.06795773] w\_new= [-0.03268226 0.96472427 2.06795799]

gradient= [-2.40724418e-05 -1.72232680e-06 2.57947686e-05] w = [-0.03268226 0.96472427 2.06795799] w\_new= [-0.0326825 0.96472426 2.06795824]

gradient= [-2.40373940e-05 -1.71998203e-06 2.57573760e-05] w = [-0.0326825 0.96472426 2.06795824] w\_new= [-0.03268274 0.96472424 2.0679585 ]

gradient= [-2.40023973e-05 -1.71764042e-06 2.57200377e-05] w = [-0.03268274 0.96472424 2.0679585 ] w\_new= [-0.03268298 0.96472422 2.06795876]

gradient= [-2.39674515e-05 -1.71530197e-06 2.56827535e-05] w = [-0.03268298 0.96472422 2.06795876] w\_new= [-0.03268322 0.96472421 2.06795902]

gradient= [-2.39325566e-05 -1.71296668e-06 2.56455233e-05] w = [-0.03268322 0.96472421 2.06795902] w\_new= [-0.03268346 0.96472419 2.06795927]

gradient= [-2.38977126e-05 -1.71063453e-06 2.56083471e-05] w = [-0.03268346 0.96472419 2.06795927] w\_new= [-0.0326837 0.96472417 2.06795953]

gradient= [-2.38629193e-05 -1.70830553e-06 2.55712248e-05] w = [-0.0326837 0.96472417 2.06795953] w\_new= [-0.03268394 0.96472415 2.06795978]

gradient= [-2.38281766e-05 -1.70597968e-06 2.55341563e-05] w = [-0.03268394 0.96472415 2.06795978] w\_new= [-0.03268418 0.96472414 2.06796004]

gradient= [-2.37934846e-05 -1.70365696e-06 2.54971415e-05] w = [-0.03268418 0.96472414 2.06796004] w\_new= [-0.03268441 0.96472412 2.06796029]

gradient= [-2.37588430e-05 -1.70133737e-06 2.54601804e-05] w = [-0.03268441 0.96472412 2.06796029] w\_new= [-0.03268465 0.9647241 2.06796055]

gradient= [-2.37242519e-05 -1.69902092e-06 2.54232729e-05] w = [-0.03268465 0.9647241 2.06796055] w\_new= [-0.03268489 0.96472409 2.0679608 ]

gradient= [-2.36897112e-05 -1.69670759e-06 2.53864188e-05] w = [-0.03268489 0.96472409 2.0679608 ] w\_new= [-0.03268513 0.96472407 2.06796106]

gradient= [-2.36552208e-05 -1.69439738e-06 2.53496182e-05] w = [-0.03268513 0.96472407 2.06796106] w\_new= [-0.03268536 0.96472405 2.06796131]

gradient= [-2.36207806e-05 -1.69209029e-06 2.53128709e-05] w = [-0.03268536 0.96472405 2.06796131] w\_new= [-0.0326856 0.96472404 2.06796156]

gradient= [-2.35863906e-05 -1.68978631e-06 2.52761769e-05] w = [-0.0326856 0.96472404 2.06796156] w\_new= [-0.03268583 0.96472402 2.06796182]

gradient= [-2.35520507e-05 -1.68748544e-06 2.52395361e-05] w = [-0.03268583 0.96472402 2.06796182] w\_new= [-0.03268607 0.964724 2.06796207]

gradient= [-2.35177607e-05 -1.68518767e-06 2.52029484e-05] w = [-0.03268607 0.964724 2.06796207] w\_new= [-0.03268631 0.96472398 2.06796232]

gradient= [-2.34835207e-05 -1.68289301e-06 2.51664138e-05] w = [-0.03268631 0.96472398 2.06796232] w\_new= [-0.03268654 0.96472397 2.06796257]

gradient= [-2.34493306e-05 -1.68060144e-06 2.51299320e-05] w = [-0.03268654 0.96472397 2.06796257] w\_new= [-0.03268677 0.96472395 2.06796282]

gradient= [-2.34151903e-05 -1.67831296e-06 2.50935032e-05] w = [-0.03268677 0.96472395 2.06796282] w\_new= [-0.03268701 0.96472393 2.06796307]

gradient= [-2.33810996e-05 -1.67602757e-06 2.50571272e-05] w = [-0.03268701 0.96472393 2.06796307] w\_new= [-0.03268724 0.96472392 2.06796332]

gradient= [-2.33470586e-05 -1.67374527e-06 2.50208039e-05] w = [-0.03268724 0.96472392 2.06796332] w\_new= [-0.03268748 0.9647239 2.06796357]

gradient= [-2.33130672e-05 -1.67146604e-06 2.49845333e-05] w = [-0.03268748 0.9647239 2.06796357] w\_new= [-0.03268771 0.96472388 2.06796382]

gradient= [-2.32791253e-05 -1.66918989e-06 2.49483152e-05] w = [-0.03268771 0.96472388 2.06796382] w\_new= [-0.03268794 0.96472387 2.06796407]

gradient= [-2.32452328e-05 -1.66691681e-06 2.49121497e-05] w = [-0.03268794 0.96472387 2.06796407] w\_new= [-0.03268817 0.96472385 2.06796432]

gradient= [-2.32113897e-05 -1.66464680e-06 2.48760365e-05] w = [-0.03268817 0.96472385 2.06796432] w\_new= [-0.03268841 0.96472383 2.06796457]

gradient= [-2.31775959e-05 -1.66237986e-06 2.48399757e-05] w = [-0.03268841 0.96472383 2.06796457] w\_new= [-0.03268864 0.96472382 2.06796482]

gradient= [-2.31438512e-05 -1.66011597e-06 2.48039672e-05] w = [-0.03268864 0.96472382 2.06796482] w\_new= [-0.03268887 0.9647238 2.06796507]

gradient= [-2.31101558e-05 -1.65785513e-06 2.47680109e-05] w = [-0.03268887 0.9647238 2.06796507] w\_new= [-0.0326891 0.96472378 2.06796532]

gradient= [-2.30765093e-05 -1.65559735e-06 2.47321067e-05] w = [-0.0326891 0.96472378 2.06796532] w\_new= [-0.03268933 0.96472377 2.06796556]

gradient= [-2.30429119e-05 -1.65334262e-06 2.46962545e-05] w = [-0.03268933 0.96472377 2.06796556] w\_new= [-0.03268956 0.96472375 2.06796581]

gradient= [-2.30093634e-05 -1.65109092e-06 2.46604544e-05] w = [-0.03268956 0.96472375 2.06796581] w\_new= [-0.03268979 0.96472373 2.06796606]

gradient= [-2.29758638e-05 -1.64884227e-06 2.46247061e-05] w = [-0.03268979 0.96472373 2.06796606] w\_new= [-0.03269002 0.96472372 2.0679663 ]

gradient= [-2.29424130e-05 -1.64659665e-06 2.45890096e-05] w = [-0.03269002 0.96472372 2.0679663 ] w\_new= [-0.03269025 0.9647237 2.06796655]

gradient= [-2.29090108e-05 -1.64435407e-06 2.45533649e-05] w = [-0.03269025 0.9647237 2.06796655] w\_new= [-0.03269048 0.96472369 2.06796679]

gradient= [-2.28756573e-05 -1.64211450e-06 2.45177718e-05] w = [-0.03269048 0.96472369 2.06796679] w\_new= [-0.03269071 0.96472367 2.06796704]

gradient= [-2.28423524e-05 -1.63987797e-06 2.44822304e-05] w = [-0.03269071 0.96472367 2.06796704] w\_new= [-0.03269094 0.96472365 2.06796728]

gradient= [-2.28090960e-05 -1.63764445e-06 2.44467404e-05] w = [-0.03269094 0.96472365 2.06796728] w\_new= [-0.03269117 0.96472364 2.06796753]

gradient= [-2.27758880e-05 -1.63541394e-06 2.44113019e-05] w = [-0.03269117 0.96472364 2.06796753] w\_new= [-0.03269139 0.96472362 2.06796777]

gradient= [-2.27427283e-05 -1.63318645e-06 2.43759148e-05] w = [-0.03269139 0.96472362 2.06796777] w\_new= [-0.03269162 0.9647236 2.06796802]

gradient= [-2.27096170e-05 -1.63096196e-06 2.43405790e-05] w = [-0.03269162 0.9647236 2.06796802] w\_new= [-0.03269185 0.96472359 2.06796826]

gradient= [-2.26765539e-05 -1.62874048e-06 2.43052943e-05] w = [-0.03269185 0.96472359 2.06796826] w\_new= [-0.03269207 0.96472357 2.0679685 ]

gradient= [-2.26435389e-05 -1.62652199e-06 2.42700609e-05] w = [-0.03269207 0.96472357 2.0679685 ] w\_new= [-0.0326923 0.96472355 2.06796875]

gradient= [-2.26105720e-05 -1.62430650e-06 2.42348785e-05] w = [-0.0326923 0.96472355 2.06796875] w\_new= [-0.03269253 0.96472354 2.06796899]

gradient= [-2.25776531e-05 -1.62209400e-06 2.41997471e-05] w = [-0.03269253 0.96472354 2.06796899] w\_new= [-0.03269275 0.96472352 2.06796923]

gradient= [-2.25447822e-05 -1.61988448e-06 2.41646666e-05] w = [-0.03269275 0.96472352 2.06796923] w\_new= [-0.03269298 0.96472351 2.06796947]

gradient= [-2.25119591e-05 -1.61767795e-06 2.41296370e-05] w = [-0.03269298 0.96472351 2.06796947] w\_new= [-0.0326932 0.96472349 2.06796971]

gradient= [-2.24791838e-05 -1.61547439e-06 2.40946582e-05] w = [-0.0326932 0.96472349 2.06796971] w\_new= [-0.03269343 0.96472347 2.06796995]

gradient= [-2.24464562e-05 -1.61327382e-06 2.40597300e-05] w = [-0.03269343 0.96472347 2.06796995] w\_new= [-0.03269365 0.96472346 2.0679702 ]

gradient= [-2.24137763e-05 -1.61107621e-06 2.40248525e-05] w = [-0.03269365 0.96472346 2.0679702 ] w\_new= [-0.03269388 0.96472344 2.06797044]

gradient= [-2.23811440e-05 -1.60888157e-06 2.39900256e-05] w = [-0.03269388 0.96472344 2.06797044] w\_new= [-0.0326941 0.96472343 2.06797068]

gradient= [-2.23485592e-05 -1.60668989e-06 2.39552491e-05] w = [-0.0326941 0.96472343 2.06797068] w\_new= [-0.03269432 0.96472341 2.06797091]

gradient= [-2.23160219e-05 -1.60450117e-06 2.39205231e-05] w = [-0.03269432 0.96472341 2.06797091] w\_new= [-0.03269455 0.96472339 2.06797115]

gradient= [-2.22835320e-05 -1.60231540e-06 2.38858474e-05] w = [-0.03269455 0.96472339 2.06797115] w\_new= [-0.03269477 0.96472338 2.06797139]

gradient= [-2.22510893e-05 -1.60013259e-06 2.38512219e-05] w = [-0.03269477 0.96472338 2.06797139] w\_new= [-0.03269499 0.96472336 2.06797163]

gradient= [-2.22186939e-05 -1.59795272e-06 2.38166466e-05] w = [-0.03269499 0.96472336 2.06797163] w\_new= [-0.03269521 0.96472335 2.06797187]

gradient= [-2.21863457e-05 -1.59577579e-06 2.37821215e-05] w = [-0.03269521 0.96472335 2.06797187] w\_new= [-0.03269544 0.96472333 2.06797211]

gradient= [-2.21540446e-05 -1.59360181e-06 2.37476464e-05] w = [-0.03269544 0.96472333 2.06797211] w\_new= [-0.03269566 0.96472331 2.06797234]

gradient= [-2.21217905e-05 -1.59143076e-06 2.37132213e-05] w = [-0.03269566 0.96472331 2.06797234] w\_new= [-0.03269588 0.9647233 2.06797258]

gradient= [-2.20895834e-05 -1.58926264e-06 2.36788461e-05] w = [-0.03269588 0.9647233 2.06797258] w\_new= [-0.0326961 0.96472328 2.06797282]

gradient= [-2.20574232e-05 -1.58709745e-06 2.36445207e-05] w = [-0.0326961 0.96472328 2.06797282] w\_new= [-0.03269632 0.96472327 2.06797306]

gradient= [-2.20253099e-05 -1.58493518e-06 2.36102450e-05] w = [-0.03269632 0.96472327 2.06797306] w\_new= [-0.03269654 0.96472325 2.06797329]

gradient= [-2.19932433e-05 -1.58277583e-06 2.35760191e-05] w = [-0.03269654 0.96472325 2.06797329] w\_new= [-0.03269676 0.96472323 2.06797353]

gradient= [-2.19612234e-05 -1.58061940e-06 2.35418428e-05] w = [-0.03269676 0.96472323 2.06797353] w\_new= [-0.03269698 0.96472322 2.06797376]

gradient= [-2.19292501e-05 -1.57846588e-06 2.35077160e-05] w = [-0.03269698 0.96472322 2.06797376] w\_new= [-0.0326972 0.9647232 2.067974 ]

gradient= [-2.18973234e-05 -1.57631526e-06 2.34736386e-05] w = [-0.0326972 0.9647232 2.067974 ] w\_new= [-0.03269742 0.96472319 2.06797423]

gradient= [-2.18654431e-05 -1.57416755e-06 2.34396107e-05] w = [-0.03269742 0.96472319 2.06797423] w\_new= [-0.03269764 0.96472317 2.06797447]

gradient= [-2.18336093e-05 -1.57202274e-06 2.34056321e-05] w = [-0.03269764 0.96472317 2.06797447] w\_new= [-0.03269786 0.96472316 2.0679747 ]

gradient= [-2.18018219e-05 -1.56988083e-06 2.33717027e-05] w = [-0.03269786 0.96472316 2.0679747 ] w\_new= [-0.03269807 0.96472314 2.06797493]

gradient= [-2.17700808e-05 -1.56774181e-06 2.33378226e-05] w = [-0.03269807 0.96472314 2.06797493] w\_new= [-0.03269829 0.96472312 2.06797517]

gradient= [-2.17383858e-05 -1.56560568e-06 2.33039915e-05] w = [-0.03269829 0.96472312 2.06797517] w\_new= [-0.03269851 0.96472311 2.0679754 ]

gradient= [-2.17067371e-05 -1.56347243e-06 2.32702095e-05] w = [-0.03269851 0.96472311 2.0679754 ] w\_new= [-0.03269873 0.96472309 2.06797563]

gradient= [-2.16751344e-05 -1.56134206e-06 2.32364764e-05] w = [-0.03269873 0.96472309 2.06797563] w\_new= [-0.03269894 0.96472308 2.06797587]

gradient= [-2.16435777e-05 -1.55921457e-06 2.32027923e-05] w = [-0.03269894 0.96472308 2.06797587] w\_new= [-0.03269916 0.96472306 2.0679761 ]

gradient= [-2.16120670e-05 -1.55708995e-06 2.31691570e-05] w = [-0.03269916 0.96472306 2.0679761 ] w\_new= [-0.03269938 0.96472305 2.06797633]

gradient= [-2.15806022e-05 -1.55496820e-06 2.31355704e-05] w = [-0.03269938 0.96472305 2.06797633] w\_new= [-0.03269959 0.96472303 2.06797656]

gradient= [-2.15491832e-05 -1.55284932e-06 2.31020325e-05] w = [-0.03269959 0.96472303 2.06797656] w\_new= [-0.03269981 0.96472301 2.06797679]

gradient= [-2.15178099e-05 -1.55073330e-06 2.30685432e-05] w = [-0.03269981 0.96472301 2.06797679] w\_new= [-0.03270002 0.964723 2.06797702]

gradient= [-2.14864824e-05 -1.54862014e-06 2.30351025e-05] w = [-0.03270002 0.964723 2.06797702] w\_new= [-0.03270024 0.96472298 2.06797725]

gradient= [-2.14552004e-05 -1.54650983e-06 2.30017103e-05] w = [-0.03270024 0.96472298 2.06797725] w\_new= [-0.03270045 0.96472297 2.06797748]

gradient= [-2.14239641e-05 -1.54440237e-06 2.29683664e-05] w = [-0.03270045 0.96472297 2.06797748] w\_new= [-0.03270067 0.96472295 2.06797771]

gradient= [-2.13927732e-05 -1.54229775e-06 2.29350709e-05] w = [-0.03270067 0.96472295 2.06797771] w\_new= [-0.03270088 0.96472294 2.06797794]

gradient= [-2.13616277e-05 -1.54019598e-06 2.29018237e-05] w = [-0.03270088 0.96472294 2.06797794] w\_new= [-0.03270109 0.96472292 2.06797817]

gradient= [-2.13305276e-05 -1.53809705e-06 2.28686246e-05] w = [-0.03270109 0.96472292 2.06797817] w\_new= [-0.03270131 0.96472291 2.0679784 ]

gradient= [-2.12994727e-05 -1.53600095e-06 2.28354737e-05] w = [-0.03270131 0.96472291 2.0679784 ] w\_new= [-0.03270152 0.96472289 2.06797863]

gradient= [-2.12684631e-05 -1.53390769e-06 2.28023708e-05] w = [-0.03270152 0.96472289 2.06797863] w\_new= [-0.03270173 0.96472288 2.06797886]

gradient= [-2.12374987e-05 -1.53181725e-06 2.27693159e-05] w = [-0.03270173 0.96472288 2.06797886] w\_new= [-0.03270194 0.96472286 2.06797908]

gradient= [-2.12065793e-05 -1.52972963e-06 2.27363089e-05] w = [-0.03270194 0.96472286 2.06797908] w\_new= [-0.03270216 0.96472285 2.06797931]

gradient= [-2.11757050e-05 -1.52764484e-06 2.27033498e-05] w = [-0.03270216 0.96472285 2.06797931] w\_new= [-0.03270237 0.96472283 2.06797954]

gradient= [-2.11448756e-05 -1.52556286e-06 2.26704385e-05] w = [-0.03270237 0.96472283 2.06797954] w\_new= [-0.03270258 0.96472281 2.06797976]

gradient= [-2.11140911e-05 -1.52348369e-06 2.26375748e-05] w = [-0.03270258 0.96472281 2.06797976] w\_new= [-0.03270279 0.9647228 2.06797999]

gradient= [-2.10833515e-05 -1.52140733e-06 2.26047588e-05] w = [-0.03270279 0.9647228 2.06797999] w\_new= [-0.032703 0.96472278 2.06798022]

gradient= [-2.10526566e-05 -1.51933378e-06 2.25719904e-05] w = [-0.032703 0.96472278 2.06798022] w\_new= [-0.03270321 0.96472277 2.06798044]

gradient= [-2.10220064e-05 -1.51726303e-06 2.25392694e-05] w = [-0.03270321 0.96472277 2.06798044] w\_new= [-0.03270342 0.96472275 2.06798067]

gradient= [-2.09914008e-05 -1.51519507e-06 2.25065959e-05] w = [-0.03270342 0.96472275 2.06798067] w\_new= [-0.03270363 0.96472274 2.06798089]

gradient= [-2.09608398e-05 -1.51312991e-06 2.24739698e-05] w = [-0.03270363 0.96472274 2.06798089] w\_new= [-0.03270384 0.96472272 2.06798112]

gradient= [-2.09303234e-05 -1.51106754e-06 2.24413909e-05] w = [-0.03270384 0.96472272 2.06798112] w\_new= [-0.03270405 0.96472271 2.06798134]

gradient= [-2.08998513e-05 -1.50900795e-06 2.24088593e-05] w = [-0.03270405 0.96472271 2.06798134] w\_new= [-0.03270426 0.96472269 2.06798157]

gradient= [-2.08694236e-05 -1.50695115e-06 2.23763748e-05] w = [-0.03270426 0.96472269 2.06798157] w\_new= [-0.03270447 0.96472268 2.06798179]

gradient= [-2.08390403e-05 -1.50489712e-06 2.23439374e-05] w = [-0.03270447 0.96472268 2.06798179] w\_new= [-0.03270468 0.96472266 2.06798201]

gradient= [-2.08087012e-05 -1.50284587e-06 2.23115470e-05] w = [-0.03270468 0.96472266 2.06798201] w\_new= [-0.03270489 0.96472265 2.06798224]

gradient= [-2.07784062e-05 -1.50079739e-06 2.22792036e-05] w = [-0.03270489 0.96472265 2.06798224] w\_new= [-0.03270509 0.96472263 2.06798246]

gradient= [-2.07481554e-05 -1.49875168e-06 2.22469071e-05] w = [-0.03270509 0.96472263 2.06798246] w\_new= [-0.0327053 0.96472262 2.06798268]

gradient= [-2.07179486e-05 -1.49670873e-06 2.22146574e-05] w = [-0.0327053 0.96472262 2.06798268] w\_new= [-0.03270551 0.9647226 2.0679829 ]

gradient= [-2.06877859e-05 -1.49466854e-06 2.21824544e-05] w = [-0.03270551 0.9647226 2.0679829 ] w\_new= [-0.03270571 0.96472259 2.06798313]

gradient= [-2.06576670e-05 -1.49263111e-06 2.21502981e-05] w = [-0.03270571 0.96472259 2.06798313] w\_new= [-0.03270592 0.96472257 2.06798335]

gradient= [-2.06275920e-05 -1.49059643e-06 2.21181884e-05] w = [-0.03270592 0.96472257 2.06798335] w\_new= [-0.03270613 0.96472256 2.06798357]

gradient= [-2.05975608e-05 -1.48856450e-06 2.20861253e-05] w = [-0.03270613 0.96472256 2.06798357] w\_new= [-0.03270633 0.96472254 2.06798379]

gradient= [-2.05675733e-05 -1.48653532e-06 2.20541087e-05] w = [-0.03270633 0.96472254 2.06798379] w\_new= [-0.03270654 0.96472253 2.06798401]

gradient= [-2.05376295e-05 -1.48450888e-06 2.20221384e-05] w = [-0.03270654 0.96472253 2.06798401] w\_new= [-0.03270674 0.96472251 2.06798423]

gradient= [-2.05077293e-05 -1.48248517e-06 2.19902145e-05] w = [-0.03270674 0.96472251 2.06798423] w\_new= [-0.03270695 0.9647225 2.06798445]

gradient= [-2.04778727e-05 -1.48046420e-06 2.19583369e-05] w = [-0.03270695 0.9647225 2.06798445] w\_new= [-0.03270715 0.96472248 2.06798467]

gradient= [-2.04480595e-05 -1.47844596e-06 2.19265055e-05] w = [-0.03270715 0.96472248 2.06798467] w\_new= [-0.03270736 0.96472247 2.06798489]

gradient= [-2.04182897e-05 -1.47643045e-06 2.18947202e-05] w = [-0.03270736 0.96472247 2.06798489] w\_new= [-0.03270756 0.96472245 2.06798511]

gradient= [-2.03885633e-05 -1.47441766e-06 2.18629810e-05] w = [-0.03270756 0.96472245 2.06798511] w\_new= [-0.03270777 0.96472244 2.06798533]

gradient= [-2.03588802e-05 -1.47240759e-06 2.18312878e-05] w = [-0.03270777 0.96472244 2.06798533] w\_new= [-0.03270797 0.96472243 2.06798555]

gradient= [-2.03292403e-05 -1.47040024e-06 2.17996406e-05] w = [-0.03270797 0.96472243 2.06798555] w\_new= [-0.03270817 0.96472241 2.06798576]

gradient= [-2.02996436e-05 -1.46839560e-06 2.17680392e-05] w = [-0.03270817 0.96472241 2.06798576] w\_new= [-0.03270838 0.9647224 2.06798598]

gradient= [-2.02700899e-05 -1.46639367e-06 2.17364836e-05] w = [-0.03270838 0.9647224 2.06798598] w\_new= [-0.03270858 0.96472238 2.0679862 ]

gradient= [-2.02405793e-05 -1.46439444e-06 2.17049738e-05] w = [-0.03270858 0.96472238 2.0679862 ] w\_new= [-0.03270878 0.96472237 2.06798642]

gradient= [-2.02111117e-05 -1.46239791e-06 2.16735096e-05] w = [-0.03270878 0.96472237 2.06798642] w\_new= [-0.03270898 0.96472235 2.06798663]

gradient= [-2.01816870e-05 -1.46040409e-06 2.16420911e-05] w = [-0.03270898 0.96472235 2.06798663] w\_new= [-0.03270919 0.96472234 2.06798685]

gradient= [-2.01523051e-05 -1.45841296e-06 2.16107181e-05] w = [-0.03270919 0.96472234 2.06798685] w\_new= [-0.03270939 0.96472232 2.06798706]

gradient= [-2.01229660e-05 -1.45642451e-06 2.15793906e-05] w = [-0.03270939 0.96472232 2.06798706] w\_new= [-0.03270959 0.96472231 2.06798728]

gradient= [-2.00936697e-05 -1.45443876e-06 2.15481084e-05] w = [-0.03270959 0.96472231 2.06798728] w\_new= [-0.03270979 0.96472229 2.0679875 ]

gradient= [-2.00644160e-05 -1.45245569e-06 2.15168717e-05] w = [-0.03270979 0.96472229 2.0679875 ] w\_new= [-0.03270999 0.96472228 2.06798771]

gradient= [-2.00352049e-05 -1.45047530e-06 2.14856802e-05] w = [-0.03270999 0.96472228 2.06798771] w\_new= [-0.03271019 0.96472226 2.06798793]

gradient= [-2.00060363e-05 -1.44849759e-06 2.14545339e-05] w = [-0.03271019 0.96472226 2.06798793] w\_new= [-0.03271039 0.96472225 2.06798814]

gradient= [-1.99769102e-05 -1.44652254e-06 2.14234328e-05] w = [-0.03271039 0.96472225 2.06798814] w\_new= [-0.03271059 0.96472224 2.06798835]

gradient= [-1.99478266e-05 -1.44455017e-06 2.13923767e-05] w = [-0.03271059 0.96472224 2.06798835] w\_new= [-0.03271079 0.96472222 2.06798857]

gradient= [-1.99187852e-05 -1.44258047e-06 2.13613657e-05] w = [-0.03271079 0.96472222 2.06798857] w\_new= [-0.03271099 0.96472221 2.06798878]

gradient= [-1.98897862e-05 -1.44061342e-06 2.13303996e-05] w = [-0.03271099 0.96472221 2.06798878] w\_new= [-0.03271119 0.96472219 2.067989 ]

gradient= [-1.98608294e-05 -1.43864904e-06 2.12994784e-05] w = [-0.03271119 0.96472219 2.067989 ] w\_new= [-0.03271139 0.96472218 2.06798921]

gradient= [-1.98319148e-05 -1.43668731e-06 2.12686021e-05] w = [-0.03271139 0.96472218 2.06798921] w\_new= [-0.03271159 0.96472216 2.06798942]

gradient= [-1.98030422e-05 -1.43472823e-06 2.12377705e-05] w = [-0.03271159 0.96472216 2.06798942] w\_new= [-0.03271178 0.96472215 2.06798963]

gradient= [-1.97742118e-05 -1.43277180e-06 2.12069836e-05] w = [-0.03271178 0.96472215 2.06798963] w\_new= [-0.03271198 0.96472214 2.06798985]

gradient= [-1.97454233e-05 -1.43081801e-06 2.11762413e-05] w = [-0.03271198 0.96472214 2.06798985] w\_new= [-0.03271218 0.96472212 2.06799006]

gradient= [-1.97166767e-05 -1.42886687e-06 2.11455435e-05] w = [-0.03271218 0.96472212 2.06799006] w\_new= [-0.03271238 0.96472211 2.06799027]

gradient= [-1.96879720e-05 -1.42691836e-06 2.11148903e-05] w = [-0.03271238 0.96472211 2.06799027] w\_new= [-0.03271257 0.96472209 2.06799048]

gradient= [-1.96593090e-05 -1.42497249e-06 2.10842815e-05] w = [-0.03271257 0.96472209 2.06799048] w\_new= [-0.03271277 0.96472208 2.06799069]

gradient= [-1.96306879e-05 -1.42302924e-06 2.10537171e-05] w = [-0.03271277 0.96472208 2.06799069] w\_new= [-0.03271297 0.96472206 2.0679909 ]

gradient= [-1.96021083e-05 -1.42108862e-06 2.10231970e-05] w = [-0.03271297 0.96472206 2.0679909 ] w\_new= [-0.03271316 0.96472205 2.06799111]

gradient= [-1.95735705e-05 -1.41915063e-06 2.09927211e-05] w = [-0.03271316 0.96472205 2.06799111] w\_new= [-0.03271336 0.96472204 2.06799132]

gradient= [-1.95450741e-05 -1.41721526e-06 2.09622894e-05] w = [-0.03271336 0.96472204 2.06799132] w\_new= [-0.03271355 0.96472202 2.06799153]

gradient= [-1.95166193e-05 -1.41528250e-06 2.09319018e-05] w = [-0.03271355 0.96472202 2.06799153] w\_new= [-0.03271375 0.96472201 2.06799174]

gradient= [-1.94882059e-05 -1.41335235e-06 2.09015583e-05] w = [-0.03271375 0.96472201 2.06799174] w\_new= [-0.03271394 0.96472199 2.06799195]

gradient= [-1.94598339e-05 -1.41142482e-06 2.08712587e-05] w = [-0.03271394 0.96472199 2.06799195] w\_new= [-0.03271414 0.96472198 2.06799216]

gradient= [-1.94315032e-05 -1.40949989e-06 2.08410031e-05] w = [-0.03271414 0.96472198 2.06799216] w\_new= [-0.03271433 0.96472196 2.06799237]

gradient= [-1.94032137e-05 -1.40757756e-06 2.08107913e-05] w = [-0.03271433 0.96472196 2.06799237] w\_new= [-0.03271453 0.96472195 2.06799257]

gradient= [-1.93749655e-05 -1.40565783e-06 2.07806233e-05] w = [-0.03271453 0.96472195 2.06799257] w\_new= [-0.03271472 0.96472194 2.06799278]

gradient= [-1.93467583e-05 -1.40374070e-06 2.07504990e-05] w = [-0.03271472 0.96472194 2.06799278] w\_new= [-0.03271491 0.96472192 2.06799299]

gradient= [-1.93185923e-05 -1.40182616e-06 2.07204184e-05] w = [-0.03271491 0.96472192 2.06799299] w\_new= [-0.03271511 0.96472191 2.0679932 ]

gradient= [-1.92904673e-05 -1.39991421e-06 2.06903815e-05] w = [-0.03271511 0.96472191 2.0679932 ] w\_new= [-0.0327153 0.96472189 2.0679934 ]

gradient= [-1.92623832e-05 -1.39800484e-06 2.06603880e-05] w = [-0.0327153 0.96472189 2.0679934 ] w\_new= [-0.03271549 0.96472188 2.06799361]

gradient= [-1.92343400e-05 -1.39609805e-06 2.06304380e-05] w = [-0.03271549 0.96472188 2.06799361] w\_new= [-0.03271568 0.96472187 2.06799382]

gradient= [-1.92063376e-05 -1.39419384e-06 2.06005315e-05] w = [-0.03271568 0.96472187 2.06799382] w\_new= [-0.03271588 0.96472185 2.06799402]

gradient= [-1.91783761e-05 -1.39229221e-06 2.05706683e-05] w = [-0.03271588 0.96472185 2.06799402] w\_new= [-0.03271607 0.96472184 2.06799423]

gradient= [-1.91504552e-05 -1.39039315e-06 2.05408484e-05] w = [-0.03271607 0.96472184 2.06799423] w\_new= [-0.03271626 0.96472182 2.06799443]

gradient= [-1.91225750e-05 -1.38849665e-06 2.05110717e-05] w = [-0.03271626 0.96472182 2.06799443] w\_new= [-0.03271645 0.96472181 2.06799464]

gradient= [-1.90947354e-05 -1.38660272e-06 2.04813382e-05] w = [-0.03271645 0.96472181 2.06799464] w\_new= [-0.03271664 0.9647218 2.06799484]

gradient= [-1.90669364e-05 -1.38471135e-06 2.04516477e-05] w = [-0.03271664 0.9647218 2.06799484] w\_new= [-0.03271683 0.96472178 2.06799505]

gradient= [-1.90391778e-05 -1.38282254e-06 2.04220003e-05] w = [-0.03271683 0.96472178 2.06799505] w\_new= [-0.03271702 0.96472177 2.06799525]

gradient= [-1.90114597e-05 -1.38093628e-06 2.03923959e-05] w = [-0.03271702 0.96472177 2.06799525] w\_new= [-0.03271721 0.96472176 2.06799546]

gradient= [-1.89837819e-05 -1.37905257e-06 2.03628344e-05] w = [-0.03271721 0.96472176 2.06799546] w\_new= [-0.0327174 0.96472174 2.06799566]

gradient= [-1.89561444e-05 -1.37717141e-06 2.03333158e-05] w = [-0.0327174 0.96472174 2.06799566] w\_new= [-0.03271759 0.96472173 2.06799586]

gradient= [-1.89285471e-05 -1.37529280e-06 2.03038399e-05] w = [-0.03271759 0.96472173 2.06799586] w\_new= [-0.03271778 0.96472171 2.06799607]

gradient= [-1.89009901e-05 -1.37341672e-06 2.02744068e-05] w = [-0.03271778 0.96472171 2.06799607] w\_new= [-0.03271797 0.9647217 2.06799627]

gradient= [-1.88734731e-05 -1.37154318e-06 2.02450163e-05] w = [-0.03271797 0.9647217 2.06799627] w\_new= [-0.03271816 0.96472169 2.06799647]

gradient= [-1.88459963e-05 -1.36967217e-06 2.02156685e-05] w = [-0.03271816 0.96472169 2.06799647] w\_new= [-0.03271835 0.96472167 2.06799667]

gradient= [-1.88185594e-05 -1.36780370e-06 2.01863631e-05] w = [-0.03271835 0.96472167 2.06799667] w\_new= [-0.03271854 0.96472166 2.06799688]

gradient= [-1.87911625e-05 -1.36593775e-06 2.01571003e-05] w = [-0.03271854 0.96472166 2.06799688] w\_new= [-0.03271872 0.96472165 2.06799708]

gradient= [-1.87638055e-05 -1.36407432e-06 2.01278799e-05] w = [-0.03271872 0.96472165 2.06799708] w\_new= [-0.03271891 0.96472163 2.06799728]

gradient= [-1.87364884e-05 -1.36221342e-06 2.00987018e-05] w = [-0.03271891 0.96472163 2.06799728] w\_new= [-0.0327191 0.96472162 2.06799748]

gradient= [-1.87092110e-05 -1.36035503e-06 2.00695660e-05] w = [-0.0327191 0.96472162 2.06799748] w\_new= [-0.03271929 0.9647216 2.06799768]

gradient= [-1.86819733e-05 -1.35849915e-06 2.00404725e-05] w = [-0.03271929 0.9647216 2.06799768] w\_new= [-0.03271947 0.96472159 2.06799788]

gradient= [-1.86547753e-05 -1.35664579e-06 2.00114211e-05] w = [-0.03271947 0.96472159 2.06799788] w\_new= [-0.03271966 0.96472158 2.06799808]

gradient= [-1.86276169e-05 -1.35479493e-06 1.99824119e-05] w = [-0.03271966 0.96472158 2.06799808] w\_new= [-0.03271985 0.96472156 2.06799828]

gradient= [-1.86004981e-05 -1.35294657e-06 1.99534447e-05] w = [-0.03271985 0.96472156 2.06799828] w\_new= [-0.03272003 0.96472155 2.06799848]

gradient= [-1.85734187e-05 -1.35110072e-06 1.99245194e-05] w = [-0.03272003 0.96472155 2.06799848] w\_new= [-0.03272022 0.96472154 2.06799868]

gradient= [-1.85463788e-05 -1.34925736e-06 1.98956362e-05] w = [-0.03272022 0.96472154 2.06799868] w\_new= [-0.0327204 0.96472152 2.06799888]

gradient= [-1.85193782e-05 -1.34741649e-06 1.98667947e-05] w = [-0.0327204 0.96472152 2.06799888] w\_new= [-0.03272059 0.96472151 2.06799908]

gradient= [-1.84924170e-05 -1.34557811e-06 1.98379951e-05] w = [-0.03272059 0.96472151 2.06799908] w\_new= [-0.03272077 0.9647215 2.06799928]

gradient= [-1.84654950e-05 -1.34374222e-06 1.98092373e-05] w = [-0.03272077 0.9647215 2.06799928] w\_new= [-0.03272096 0.96472148 2.06799947]

gradient= [-1.84386123e-05 -1.34190882e-06 1.97805211e-05] w = [-0.03272096 0.96472148 2.06799947] w\_new= [-0.03272114 0.96472147 2.06799967]

gradient= [-1.84117686e-05 -1.34007789e-06 1.97518465e-05] w = [-0.03272114 0.96472147 2.06799967] w\_new= [-0.03272133 0.96472146 2.06799987]

gradient= [-1.83849641e-05 -1.33824944e-06 1.97232135e-05] w = [-0.03272133 0.96472146 2.06799987] w\_new= [-0.03272151 0.96472144 2.06800007]

gradient= [-1.83581986e-05 -1.33642346e-06 1.96946221e-05] w = [-0.03272151 0.96472144 2.06800007] w\_new= [-0.03272169 0.96472143 2.06800026]

gradient= [-1.83314721e-05 -1.33459995e-06 1.96660720e-05] w = [-0.03272169 0.96472143 2.06800026] w\_new= [-0.03272188 0.96472142 2.06800046]

gradient= [-1.83047845e-05 -1.33277891e-06 1.96375634e-05] w = [-0.03272188 0.96472142 2.06800046] w\_new= [-0.03272206 0.9647214 2.06800066]

gradient= [-1.82781357e-05 -1.33096034e-06 1.96090960e-05] w = [-0.03272206 0.9647214 2.06800066] w\_new= [-0.03272224 0.96472139 2.06800085]

gradient= [-1.82515258e-05 -1.32914422e-06 1.95806700e-05] w = [-0.03272224 0.96472139 2.06800085] w\_new= [-0.03272242 0.96472138 2.06800105]

gradient= [-1.82249546e-05 -1.32733056e-06 1.95522851e-05] w = [-0.03272242 0.96472138 2.06800105] w\_new= [-0.03272261 0.96472136 2.06800124]

gradient= [-1.81984221e-05 -1.32551935e-06 1.95239414e-05] w = [-0.03272261 0.96472136 2.06800124] w\_new= [-0.03272279 0.96472135 2.06800144]

gradient= [-1.81719282e-05 -1.32371059e-06 1.94956388e-05] w = [-0.03272279 0.96472135 2.06800144] w\_new= [-0.03272297 0.96472134 2.06800163]

gradient= [-1.81454729e-05 -1.32190428e-06 1.94673772e-05] w = [-0.03272297 0.96472134 2.06800163] w\_new= [-0.03272315 0.96472132 2.06800183]

gradient= [-1.81190561e-05 -1.32010042e-06 1.94391566e-05] w = [-0.03272315 0.96472132 2.06800183] w\_new= [-0.03272333 0.96472131 2.06800202]

gradient= [-1.80926778e-05 -1.31829899e-06 1.94109768e-05] w = [-0.03272333 0.96472131 2.06800202] w\_new= [-0.03272351 0.9647213 2.06800222]

gradient= [-1.80663379e-05 -1.31650000e-06 1.93828379e-05] w = [-0.03272351 0.9647213 2.06800222] w\_new= [-0.03272369 0.96472128 2.06800241]

gradient= [-1.80400364e-05 -1.31470345e-06 1.93547399e-05] w = [-0.03272369 0.96472128 2.06800241] w\_new= [-0.03272388 0.96472127 2.0680026 ]

gradient= [-1.80137732e-05 -1.31290932e-06 1.93266825e-05] w = [-0.03272388 0.96472127 2.0680026 ] w\_new= [-0.03272406 0.96472126 2.0680028 ]

gradient= [-1.79875482e-05 -1.31111762e-06 1.92986658e-05] w = [-0.03272406 0.96472126 2.0680028 ] w\_new= [-0.03272424 0.96472124 2.06800299]

gradient= [-1.79613614e-05 -1.30932835e-06 1.92706897e-05] w = [-0.03272424 0.96472124 2.06800299] w\_new= [-0.03272441 0.96472123 2.06800318]

gradient= [-1.79352127e-05 -1.30754150e-06 1.92427542e-05] w = [-0.03272441 0.96472123 2.06800318] w\_new= [-0.03272459 0.96472122 2.06800338]

gradient= [-1.79091021e-05 -1.30575706e-06 1.92148592e-05] w = [-0.03272459 0.96472122 2.06800338] w\_new= [-0.03272477 0.96472121 2.06800357]

gradient= [-1.78830295e-05 -1.30397504e-06 1.91870046e-05] w = [-0.03272477 0.96472121 2.06800357] w\_new= [-0.03272495 0.96472119 2.06800376]

gradient= [-1.78569949e-05 -1.30219543e-06 1.91591904e-05] w = [-0.03272495 0.96472119 2.06800376] w\_new= [-0.03272513 0.96472118 2.06800395]

gradient= [-1.78309982e-05 -1.30041823e-06 1.91314165e-05] w = [-0.03272513 0.96472118 2.06800395] w\_new= [-0.03272531 0.96472117 2.06800414]

gradient= [-1.78050394e-05 -1.29864343e-06 1.91036828e-05] w = [-0.03272531 0.96472117 2.06800414] w\_new= [-0.03272549 0.96472115 2.06800433]

gradient= [-1.77791184e-05 -1.29687104e-06 1.90759894e-05] w = [-0.03272549 0.96472115 2.06800433] w\_new= [-0.03272566 0.96472114 2.06800452]

gradient= [-1.77532351e-05 -1.29510104e-06 1.90483361e-05] w = [-0.03272566 0.96472114 2.06800452] w\_new= [-0.03272584 0.96472113 2.06800472]

gradient= [-1.77273894e-05 -1.29333344e-06 1.90207229e-05] w = [-0.03272584 0.96472113 2.06800472] w\_new= [-0.03272602 0.96472111 2.06800491]

gradient= [-1.77015815e-05 -1.29156823e-06 1.89931497e-05] w = [-0.03272602 0.96472111 2.06800491] w\_new= [-0.0327262 0.9647211 2.0680051]

gradient= [-1.76758111e-05 -1.28980540e-06 1.89656165e-05] w = [-0.0327262 0.9647211 2.0680051] w\_new= [-0.03272637 0.96472109 2.06800528]

gradient= [-1.76500782e-05 -1.28804497e-06 1.89381232e-05] w = [-0.03272637 0.96472109 2.06800528] w\_new= [-0.03272655 0.96472108 2.06800547]

gradient= [-1.76243828e-05 -1.28628691e-06 1.89106697e-05] w = [-0.03272655 0.96472108 2.06800547] w\_new= [-0.03272673 0.96472106 2.06800566]

gradient= [-1.75987248e-05 -1.28453124e-06 1.88832561e-05] w = [-0.03272673 0.96472106 2.06800566] w\_new= [-0.0327269 0.96472105 2.06800585]

gradient= [-1.75731042e-05 -1.28277794e-06 1.88558822e-05] w = [-0.0327269 0.96472105 2.06800585] w\_new= [-0.03272708 0.96472104 2.06800604]

gradient= [-1.75475209e-05 -1.28102701e-06 1.88285479e-05] w = [-0.03272708 0.96472104 2.06800604] w\_new= [-0.03272725 0.96472102 2.06800623]

gradient= [-1.75219749e-05 -1.27927845e-06 1.88012533e-05] w = [-0.03272725 0.96472102 2.06800623] w\_new= [-0.03272743 0.96472101 2.06800642]

gradient= [-1.74964660e-05 -1.27753226e-06 1.87739983e-05] w = [-0.03272743 0.96472101 2.06800642] w\_new= [-0.0327276 0.964721 2.0680066]

gradient= [-1.74709943e-05 -1.27578843e-06 1.87467827e-05] w = [-0.0327276 0.964721 2.0680066] w\_new= [-0.03272778 0.96472099 2.06800679]

gradient= [-1.74455597e-05 -1.27404696e-06 1.87196066e-05] w = [-0.03272778 0.96472099 2.06800679] w\_new= [-0.03272795 0.96472097 2.06800698]

gradient= [-1.74201621e-05 -1.27230785e-06 1.86924699e-05] w = [-0.03272795 0.96472097 2.06800698] w\_new= [-0.03272813 0.96472096 2.06800717]

gradient= [-1.73948015e-05 -1.27057109e-06 1.86653726e-05] w = [-0.03272813 0.96472096 2.06800717] w\_new= [-0.0327283 0.96472095 2.06800735]

gradient= [-1.73694778e-05 -1.26883668e-06 1.86383145e-05] w = [-0.0327283 0.96472095 2.06800735] w\_new= [-0.03272847 0.96472094 2.06800754]

gradient= [-1.73441910e-05 -1.26710462e-06 1.86112956e-05] w = [-0.03272847 0.96472094 2.06800754] w\_new= [-0.03272865 0.96472092 2.06800773]

gradient= [-1.73189410e-05 -1.26537491e-06 1.85843159e-05] w = [-0.03272865 0.96472092 2.06800773] w\_new= [-0.03272882 0.96472091 2.06800791]

gradient= [-1.72937278e-05 -1.26364753e-06 1.85573753e-05] w = [-0.03272882 0.96472091 2.06800791] w\_new= [-0.03272899 0.9647209 2.0680081 ]

gradient= [-1.72685513e-05 -1.26192249e-06 1.85304738e-05] w = [-0.03272899 0.9647209 2.0680081 ] w\_new= [-0.03272917 0.96472088 2.06800828]

gradient= [-1.72434115e-05 -1.26019979e-06 1.85036113e-05] w = [-0.03272917 0.96472088 2.06800828] w\_new= [-0.03272934 0.96472087 2.06800847]

gradient= [-1.72183082e-05 -1.25847942e-06 1.84767877e-05] w = [-0.03272934 0.96472087 2.06800847] w\_new= [-0.03272951 0.96472086 2.06800865]

gradient= [-1.71932416e-05 -1.25676138e-06 1.84500029e-05] w = [-0.03272951 0.96472086 2.06800865] w\_new= [-0.03272968 0.96472085 2.06800884]

gradient= [-1.71682114e-05 -1.25504566e-06 1.84232570e-05] w = [-0.03272968 0.96472085 2.06800884] w\_new= [-0.03272986 0.96472083 2.06800902]

gradient= [-1.71432177e-05 -1.25333227e-06 1.83965499e-05] w = [-0.03272986 0.96472083 2.06800902] w\_new= [-0.03273003 0.96472082 2.0680092 ]

gradient= [-1.71182603e-05 -1.25162119e-06 1.83698815e-05] w = [-0.03273003 0.96472082 2.0680092 ] w\_new= [-0.0327302 0.96472081 2.06800939]

gradient= [-1.70933393e-05 -1.24991243e-06 1.83432518e-05] w = [-0.0327302 0.96472081 2.06800939] w\_new= [-0.03273037 0.9647208 2.06800957]

gradient= [-1.70684546e-05 -1.24820598e-06 1.83166606e-05] w = [-0.03273037 0.9647208 2.06800957] w\_new= [-0.03273054 0.96472078 2.06800976]

gradient= [-1.70436062e-05 -1.24650185e-06 1.82901080e-05] w = [-0.03273054 0.96472078 2.06800976] w\_new= [-0.03273071 0.96472077 2.06800994]

gradient= [-1.70187939e-05 -1.24480002e-06 1.82635939e-05] w = [-0.03273071 0.96472077 2.06800994] w\_new= [-0.03273088 0.96472076 2.06801012]

gradient= [-1.69940177e-05 -1.24310049e-06 1.82371182e-05] w = [-0.03273088 0.96472076 2.06801012] w\_new= [-0.03273105 0.96472075 2.0680103 ]

gradient= [-1.69692776e-05 -1.24140327e-06 1.82106809e-05] w = [-0.03273105 0.96472075 2.0680103 ] w\_new= [-0.03273122 0.96472073 2.06801049]

gradient= [-1.69445736e-05 -1.23970834e-06 1.81842819e-05] w = [-0.03273122 0.96472073 2.06801049] w\_new= [-0.03273139 0.96472072 2.06801067]

gradient= [-1.69199055e-05 -1.23801570e-06 1.81579212e-05] w = [-0.03273139 0.96472072 2.06801067] w\_new= [-0.03273156 0.96472071 2.06801085]

gradient= [-1.68952733e-05 -1.23632536e-06 1.81315987e-05] w = [-0.03273156 0.96472071 2.06801085] w\_new= [-0.03273173 0.9647207 2.06801103]

gradient= [-1.68706770e-05 -1.23463731e-06 1.81053144e-05] w = [-0.03273173 0.9647207 2.06801103] w\_new= [-0.0327319 0.96472068 2.06801121]

gradient= [-1.68461166e-05 -1.23295154e-06 1.80790681e-05] w = [-0.0327319 0.96472068 2.06801121] w\_new= [-0.03273206 0.96472067 2.06801139]

gradient= [-1.68215919e-05 -1.23126805e-06 1.80528599e-05] w = [-0.03273206 0.96472067 2.06801139] w\_new= [-0.03273223 0.96472066 2.06801157]

gradient= [-1.67971028e-05 -1.22958684e-06 1.80266897e-05] w = [-0.03273223 0.96472066 2.06801157] w\_new= [-0.0327324 0.96472065 2.06801175]

gradient= [-1.67726495e-05 -1.22790791e-06 1.80005574e-05] w = [-0.0327324 0.96472065 2.06801175] w\_new= [-0.03273257 0.96472064 2.06801193]

gradient= [-1.67482318e-05 -1.22623125e-06 1.79744630e-05] w = [-0.03273257 0.96472064 2.06801193] w\_new= [-0.03273274 0.96472062 2.06801211]

gradient= [-1.67238496e-05 -1.22455687e-06 1.79484064e-05] w = [-0.03273274 0.96472062 2.06801211] w\_new= [-0.0327329 0.96472061 2.06801229]

gradient= [-1.66995029e-05 -1.22288474e-06 1.79223876e-05] w = [-0.0327329 0.96472061 2.06801229] w\_new= [-0.03273307 0.9647206 2.06801247]

gradient= [-1.66751917e-05 -1.22121489e-06 1.78964066e-05] w = [-0.03273307 0.9647206 2.06801247] w\_new= [-0.03273324 0.96472059 2.06801265]

gradient= [-1.66509158e-05 -1.21954729e-06 1.78704631e-05] w = [-0.03273324 0.96472059 2.06801265] w\_new= [-0.0327334 0.96472057 2.06801283]

gradient= [-1.66266754e-05 -1.21788195e-06 1.78445573e-05] w = [-0.0327334 0.96472057 2.06801283] w\_new= [-0.03273357 0.96472056 2.06801301]

gradient= [-1.66024702e-05 -1.21621887e-06 1.78186891e-05] w = [-0.03273357 0.96472056 2.06801301] w\_new= [-0.03273374 0.96472055 2.06801319]

gradient= [-1.65783003e-05 -1.21455803e-06 1.77928583e-05] w = [-0.03273374 0.96472055 2.06801319] w\_new= [-0.0327339 0.96472054 2.06801336]

gradient= [-1.65541655e-05 -1.21289945e-06 1.77670650e-05] w = [-0.0327339 0.96472054 2.06801336] w\_new= [-0.03273407 0.96472053 2.06801354]

gradient= [-1.65300659e-05 -1.21124311e-06 1.77413090e-05] w = [-0.03273407 0.96472053 2.06801354] w\_new= [-0.03273423 0.96472051 2.06801372]

gradient= [-1.65060014e-05 -1.20958902e-06 1.77155904e-05] w = [-0.03273423 0.96472051 2.06801372] w\_new= [-0.0327344 0.9647205 2.0680139]

gradient= [-1.64819719e-05 -1.20793716e-06 1.76899091e-05] w = [-0.0327344 0.9647205 2.0680139] w\_new= [-0.03273456 0.96472049 2.06801407]

gradient= [-1.64579775e-05 -1.20628754e-06 1.76642650e-05] w = [-0.03273456 0.96472049 2.06801407] w\_new= [-0.03273473 0.96472048 2.06801425]

gradient= [-1.64340179e-05 -1.20464016e-06 1.76386581e-05] w = [-0.03273473 0.96472048 2.06801425] w\_new= [-0.03273489 0.96472047 2.06801443]

gradient= [-1.64100933e-05 -1.20299500e-06 1.76130883e-05] w = [-0.03273489 0.96472047 2.06801443] w\_new= [-0.03273506 0.96472045 2.0680146 ]

gradient= [-1.63862035e-05 -1.20135208e-06 1.75875556e-05] w = [-0.03273506 0.96472045 2.0680146 ] w\_new= [-0.03273522 0.96472044 2.06801478]

gradient= [-1.63623484e-05 -1.19971138e-06 1.75620598e-05] w = [-0.03273522 0.96472044 2.06801478] w\_new= [-0.03273538 0.96472043 2.06801495]

gradient= [-1.63385282e-05 -1.19807290e-06 1.75366011e-05] w = [-0.03273538 0.96472043 2.06801495] w\_new= [-0.03273555 0.96472042 2.06801513]

gradient= [-1.63147426e-05 -1.19643663e-06 1.75111792e-05] w = [-0.03273555 0.96472042 2.06801513] w\_new= [-0.03273571 0.96472041 2.0680153 ]

gradient= [-1.62909916e-05 -1.19480259e-06 1.74857942e-05] w = [-0.03273571 0.96472041 2.0680153 ] w\_new= [-0.03273587 0.96472039 2.06801548]

gradient= [-1.62672752e-05 -1.19317076e-06 1.74604460e-05] w = [-0.03273587 0.96472039 2.06801548] w\_new= [-0.03273603 0.96472038 2.06801565]

gradient= [-1.62435933e-05 -1.19154113e-06 1.74351345e-05] w = [-0.03273603 0.96472038 2.06801565] w\_new= [-0.0327362 0.96472037 2.06801583]

gradient= [-1.62199460e-05 -1.18991372e-06 1.74098597e-05] w = [-0.0327362 0.96472037 2.06801583] w\_new= [-0.03273636 0.96472036 2.068016 ]

gradient= [-1.61963330e-05 -1.18828851e-06 1.73846216e-05] w = [-0.03273636 0.96472036 2.068016 ] w\_new= [-0.03273652 0.96472035 2.06801618]

gradient= [-1.61727545e-05 -1.18666550e-06 1.73594200e-05] w = [-0.03273652 0.96472035 2.06801618] w\_new= [-0.03273668 0.96472033 2.06801635]

gradient= [-1.61492103e-05 -1.18504468e-06 1.73342550e-05] w = [-0.03273668 0.96472033 2.06801635] w\_new= [-0.03273684 0.96472032 2.06801652]

gradient= [-1.61257003e-05 -1.18342607e-06 1.73091264e-05] w = [-0.03273684 0.96472032 2.06801652] w\_new= [-0.03273701 0.96472031 2.0680167 ]

gradient= [-1.61022246e-05 -1.18180964e-06 1.72840343e-05] w = [-0.03273701 0.96472031 2.0680167 ] w\_new= [-0.03273717 0.9647203 2.06801687]

gradient= [-1.60787831e-05 -1.18019540e-06 1.72589785e-05] w = [-0.03273717 0.9647203 2.06801687] w\_new= [-0.03273733 0.96472029 2.06801704]

gradient= [-1.60553757e-05 -1.17858335e-06 1.72339591e-05] w = [-0.03273733 0.96472029 2.06801704] w\_new= [-0.03273749 0.96472028 2.06801721]

gradient= [-1.60320024e-05 -1.17697349e-06 1.72089759e-05] w = [-0.03273749 0.96472028 2.06801721] w\_new= [-0.03273765 0.96472026 2.06801739]

gradient= [-1.60086632e-05 -1.17536580e-06 1.71840290e-05] w = [-0.03273765 0.96472026 2.06801739] w\_new= [-0.03273781 0.96472025 2.06801756]

gradient= [-1.59853579e-05 -1.17376029e-06 1.71591182e-05] w = [-0.03273781 0.96472025 2.06801756] w\_new= [-0.03273797 0.96472024 2.06801773]

gradient= [-1.59620865e-05 -1.17215696e-06 1.71342435e-05] w = [-0.03273797 0.96472024 2.06801773] w\_new= [-0.03273813 0.96472023 2.0680179 ]

gradient= [-1.59388491e-05 -1.17055580e-06 1.71094049e-05] w = [-0.03273813 0.96472023 2.0680179 ] w\_new= [-0.03273829 0.96472022 2.06801807]

gradient= [-1.59156454e-05 -1.16895680e-06 1.70846023e-05] w = [-0.03273829 0.96472022 2.06801807] w\_new= [-0.03273845 0.9647202 2.06801824]

gradient= [-1.58924756e-05 -1.16735998e-06 1.70598356e-05] w = [-0.03273845 0.9647202 2.06801824] w\_new= [-0.03273861 0.96472019 2.06801841]

gradient= [-1.58693395e-05 -1.16576531e-06 1.70351048e-05] w = [-0.03273861 0.96472019 2.06801841] w\_new= [-0.03273876 0.96472018 2.06801858]

gradient= [-1.58462371e-05 -1.16417281e-06 1.70104099e-05] w = [-0.03273876 0.96472018 2.06801858] w\_new= [-0.03273892 0.96472017 2.06801875]

gradient= [-1.58231683e-05 -1.16258246e-06 1.69857508e-05] w = [-0.03273892 0.96472017 2.06801875] w\_new= [-0.03273908 0.96472016 2.06801892]

gradient= [-1.58001331e-05 -1.16099427e-06 1.69611274e-05] w = [-0.03273908 0.96472016 2.06801892] w\_new= [-0.03273924 0.96472015 2.06801909]

gradient= [-1.57771315e-05 -1.15940823e-06 1.69365397e-05] w = [-0.03273924 0.96472015 2.06801909] w\_new= [-0.0327394 0.96472013 2.06801926]

gradient= [-1.57541633e-05 -1.15782433e-06 1.69119877e-05] w = [-0.0327394 0.96472013 2.06801926] w\_new= [-0.03273955 0.96472012 2.06801943]

gradient= [-1.57312286e-05 -1.15624259e-06 1.68874712e-05] w = [-0.03273955 0.96472012 2.06801943] w\_new= [-0.03273971 0.96472011 2.0680196 ]

gradient= [-1.57083273e-05 -1.15466298e-06 1.68629903e-05] w = [-0.03273971 0.96472011 2.0680196 ] w\_new= [-0.03273987 0.9647201 2.06801977]

gradient= [-1.56854594e-05 -1.15308552e-06 1.68385449e-05] w = [-0.03273987 0.9647201 2.06801977] w\_new= [-0.03274003 0.96472009 2.06801994]

gradient= [-1.56626247e-05 -1.15151019e-06 1.68141349e-05] w = [-0.03274003 0.96472009 2.06801994] w\_new= [-0.03274018 0.96472008 2.0680201 ]

gradient= [-1.56398233e-05 -1.14993699e-06 1.67897603e-05] w = [-0.03274018 0.96472008 2.0680201 ] w\_new= [-0.03274034 0.96472007 2.06802027]

gradient= [-1.56170551e-05 -1.14836593e-06 1.67654210e-05] w = [-0.03274034 0.96472007 2.06802027] w\_new= [-0.03274049 0.96472005 2.06802044]

gradient= [-1.5594320e-05 -1.1467970e-06 1.6741117e-05] w = [-0.03274049 0.96472005 2.06802044] w\_new= [-0.03274065 0.96472004 2.06802061]

gradient= [-1.55716181e-05 -1.14523019e-06 1.67168482e-05] w = [-0.03274065 0.96472004 2.06802061] w\_new= [-0.03274081 0.96472003 2.06802077]

gradient= [-1.55489492e-05 -1.14366550e-06 1.66926147e-05] w = [-0.03274081 0.96472003 2.06802077] w\_new= [-0.03274096 0.96472002 2.06802094]

gradient= [-1.55263133e-05 -1.14210294e-06 1.66684162e-05] w = [-0.03274096 0.96472002 2.06802094] w\_new= [-0.03274112 0.96472001 2.06802111]

gradient= [-1.55037103e-05 -1.14054249e-06 1.66442528e-05] w = [-0.03274112 0.96472001 2.06802111] w\_new= [-0.03274127 0.96472 2.06802128]

gradient= [-1.54811403e-05 -1.13898415e-06 1.66201245e-05] w = [-0.03274127 0.96472 2.06802128] w\_new= [-0.03274143 0.96471999 2.06802144]

gradient= [-1.54586032e-05 -1.13742793e-06 1.65960311e-05] w = [-0.03274143 0.96471999 2.06802144] w\_new= [-0.03274158 0.96471997 2.06802161]

gradient= [-1.54360988e-05 -1.13587382e-06 1.65719726e-05] w = [-0.03274158 0.96471997 2.06802161] w\_new= [-0.03274174 0.96471996 2.06802177]

gradient= [-1.54136272e-05 -1.13432181e-06 1.65479491e-05] w = [-0.03274174 0.96471996 2.06802177] w\_new= [-0.03274189 0.96471995 2.06802194]

gradient= [-1.53911884e-05 -1.13277190e-06 1.65239603e-05] w = [-0.03274189 0.96471995 2.06802194] w\_new= [-0.03274204 0.96471994 2.0680221 ]

gradient= [-1.53687822e-05 -1.13122410e-06 1.65000063e-05] w = [-0.03274204 0.96471994 2.0680221 ] w\_new= [-0.0327422 0.96471993 2.06802227]

gradient= [-1.53464087e-05 -1.12967839e-06 1.64760871e-05] w = [-0.0327422 0.96471993 2.06802227] w\_new= [-0.03274235 0.96471992 2.06802243]

gradient= [-1.53240677e-05 -1.12813477e-06 1.64522025e-05] w = [-0.03274235 0.96471992 2.06802243] w\_new= [-0.0327425 0.96471991 2.0680226 ]

gradient= [-1.53017593e-05 -1.12659325e-06 1.64283525e-05] w = [-0.0327425 0.96471991 2.0680226 ] w\_new= [-0.03274266 0.9647199 2.06802276]

gradient= [-1.52794833e-05 -1.12505382e-06 1.64045371e-05] w = [-0.03274266 0.9647199 2.06802276] w\_new= [-0.03274281 0.96471988 2.06802293]

gradient= [-1.52572398e-05 -1.12351647e-06 1.63807562e-05] w = [-0.03274281 0.96471988 2.06802293] w\_new= [-0.03274296 0.96471987 2.06802309]

gradient= [-1.52350286e-05 -1.12198120e-06 1.63570098e-05] w = [-0.03274296 0.96471987 2.06802309] w\_new= [-0.03274311 0.96471986 2.06802325]

gradient= [-1.52128498e-05 -1.12044802e-06 1.63332979e-05] w = [-0.03274311 0.96471986 2.06802325] w\_new= [-0.03274327 0.96471985 2.06802342]

gradient= [-1.51907033e-05 -1.11891691e-06 1.63096202e-05] w = [-0.03274327 0.96471985 2.06802342] w\_new= [-0.03274342 0.96471984 2.06802358]

gradient= [-1.51685891e-05 -1.11738788e-06 1.62859770e-05] w = [-0.03274342 0.96471984 2.06802358] w\_new= [-0.03274357 0.96471983 2.06802374]

gradient= [-1.51465070e-05 -1.11586092e-06 1.62623679e-05] w = [-0.03274357 0.96471983 2.06802374] w\_new= [-0.03274372 0.96471982 2.06802391]

gradient= [-1.51244571e-05 -1.11433603e-06 1.62387932e-05] w = [-0.03274372 0.96471982 2.06802391] w\_new= [-0.03274387 0.96471981 2.06802407]

gradient= [-1.51024393e-05 -1.11281320e-06 1.62152525e-05] w = [-0.03274387 0.96471981 2.06802407] w\_new= [-0.03274402 0.96471979 2.06802423]

gradient= [-1.50804536e-05 -1.11129244e-06 1.61917460e-05] w = [-0.03274402 0.96471979 2.06802423] w\_new= [-0.03274418 0.96471978 2.06802439]

gradient= [-1.50584999e-05 -1.10977374e-06 1.61682736e-05] w = [-0.03274418 0.96471978 2.06802439] w\_new= [-0.03274433 0.96471977 2.06802455]

gradient= [-1.50365781e-05 -1.10825710e-06 1.61448352e-05] w = [-0.03274433 0.96471977 2.06802455] w\_new= [-0.03274448 0.96471976 2.06802472]

gradient= [-1.50146883e-05 -1.10674252e-06 1.61214308e-05] w = [-0.03274448 0.96471976 2.06802472] w\_new= [-0.03274463 0.96471975 2.06802488]

gradient= [-1.49928303e-05 -1.10522998e-06 1.60980603e-05] w = [-0.03274463 0.96471975 2.06802488] w\_new= [-0.03274478 0.96471974 2.06802504]

gradient= [-1.49710042e-05 -1.10371950e-06 1.60747237e-05] w = [-0.03274478 0.96471974 2.06802504] w\_new= [-0.03274493 0.96471973 2.0680252 ]

gradient= [-1.49492099e-05 -1.10221106e-06 1.60514209e-05] w = [-0.03274493 0.96471973 2.0680252 ] w\_new= [-0.03274508 0.96471972 2.06802536]

gradient= [-1.49274472e-05 -1.10070467e-06 1.60281519e-05] w = [-0.03274508 0.96471972 2.06802536] w\_new= [-0.03274522 0.96471971 2.06802552]

gradient= [-1.49057163e-05 -1.09920032e-06 1.60049166e-05] w = [-0.03274522 0.96471971 2.06802552] w\_new= [-0.03274537 0.96471969 2.06802568]

gradient= [-1.48840170e-05 -1.09769801e-06 1.59817150e-05] w = [-0.03274537 0.96471969 2.06802568] w\_new= [-0.03274552 0.96471968 2.06802584]

gradient= [-1.48623493e-05 -1.09619774e-06 1.59585471e-05] w = [-0.03274552 0.96471968 2.06802584] w\_new= [-0.03274567 0.96471967 2.068026 ]

gradient= [-1.48407132e-05 -1.09469950e-06 1.59354127e-05] w = [-0.03274567 0.96471967 2.068026 ] w\_new= [-0.03274582 0.96471966 2.06802616]

gradient= [-1.48191085e-05 -1.09320328e-06 1.59123118e-05] w = [-0.03274582 0.96471966 2.06802616] w\_new= [-0.03274597 0.96471965 2.06802632]

gradient= [-1.47975354e-05 -1.09170910e-06 1.58892445e-05] w = [-0.03274597 0.96471965 2.06802632] w\_new= [-0.03274612 0.96471964 2.06802648]

gradient= [-1.47759936e-05 -1.09021694e-06 1.58662105e-05] w = [-0.03274612 0.96471964 2.06802648] w\_new= [-0.03274626 0.96471963 2.06802663]

gradient= [-1.47544832e-05 -1.08872681e-06 1.58432100e-05] w = [-0.03274626 0.96471963 2.06802663] w\_new= [-0.03274641 0.96471962 2.06802679]

gradient= [-1.47330041e-05 -1.08723870e-06 1.58202428e-05] w = [-0.03274641 0.96471962 2.06802679] w\_new= [-0.03274656 0.96471961 2.06802695]

gradient= [-1.47115563e-05 -1.08575260e-06 1.57973089e-05] w = [-0.03274656 0.96471961 2.06802695] w\_new= [-0.03274671 0.9647196 2.06802711]

gradient= [-1.46901397e-05 -1.08426851e-06 1.57744083e-05] w = [-0.03274671 0.9647196 2.06802711] w\_new= [-0.03274685 0.96471959 2.06802727]

gradient= [-1.46687543e-05 -1.08278644e-06 1.57515408e-05] w = [-0.03274685 0.96471959 2.06802727] w\_new= [-0.032747 0.96471957 2.06802742]

gradient= [-1.46474001e-05 -1.08130638e-06 1.57287065e-05] w = [-0.032747 0.96471957 2.06802742] w\_new= [-0.03274715 0.96471956 2.06802758]

gradient= [-1.46260769e-05 -1.07982832e-06 1.57059053e-05] w = [-0.03274715 0.96471956 2.06802758] w\_new= [-0.03274729 0.96471955 2.06802774]

gradient= [-1.46047848e-05 -1.07835227e-06 1.56831371e-05] w = [-0.03274729 0.96471955 2.06802774] w\_new= [-0.03274744 0.96471954 2.0680279 ]

gradient= [-1.45835237e-05 -1.07687822e-06 1.56604019e-05] w = [-0.03274744 0.96471954 2.0680279 ] w\_new= [-0.03274758 0.96471953 2.06802805]

gradient= [-1.45622936e-05 -1.07540617e-06 1.56376997e-05] w = [-0.03274758 0.96471953 2.06802805] w\_new= [-0.03274773 0.96471952 2.06802821]

gradient= [-1.45410943e-05 -1.07393611e-06 1.56150304e-05] w = [-0.03274773 0.96471952 2.06802821] w\_new= [-0.03274787 0.96471951 2.06802836]

gradient= [-1.45199260e-05 -1.07246804e-06 1.55923940e-05] w = [-0.03274787 0.96471951 2.06802836] w\_new= [-0.03274802 0.9647195 2.06802852]

gradient= [-1.44987884e-05 -1.07100197e-06 1.55697904e-05] w = [-0.03274802 0.9647195 2.06802852] w\_new= [-0.03274816 0.96471949 2.06802868]

gradient= [-1.44776816e-05 -1.06953788e-06 1.55472195e-05] w = [-0.03274816 0.96471949 2.06802868] w\_new= [-0.03274831 0.96471948 2.06802883]

gradient= [-1.44566056e-05 -1.06807578e-06 1.55246814e-05] w = [-0.03274831 0.96471948 2.06802883] w\_new= [-0.03274845 0.96471947 2.06802899]

gradient= [-1.44355602e-05 -1.06661566e-06 1.55021759e-05] w = [-0.03274845 0.96471947 2.06802899] w\_new= [-0.0327486 0.96471946 2.06802914]

gradient= [-1.44145455e-05 -1.06515752e-06 1.54797031e-05] w = [-0.0327486 0.96471946 2.06802914] w\_new= [-0.03274874 0.96471945 2.0680293 ]

gradient= [-1.43935614e-05 -1.06370136e-06 1.54572628e-05] w = [-0.03274874 0.96471945 2.0680293 ] w\_new= [-0.03274889 0.96471944 2.06802945]

gradient= [-1.43726079e-05 -1.06224717e-06 1.54348551e-05] w = [-0.03274889 0.96471944 2.06802945] w\_new= [-0.03274903 0.96471942 2.06802961]

gradient= [-1.43516848e-05 -1.06079495e-06 1.54124798e-05] w = [-0.03274903 0.96471942 2.06802961] w\_new= [-0.03274917 0.96471941 2.06802976]

gradient= [-1.43307923e-05 -1.05934470e-06 1.53901370e-05] w = [-0.03274917 0.96471941 2.06802976] w\_new= [-0.03274932 0.9647194 2.06802991]

gradient= [-1.43099301e-05 -1.05789642e-06 1.53678265e-05] w = [-0.03274932 0.9647194 2.06802991] w\_new= [-0.03274946 0.96471939 2.06803007]

gradient= [-1.42890983e-05 -1.05645010e-06 1.53455484e-05] w = [-0.03274946 0.96471939 2.06803007] w\_new= [-0.0327496 0.96471938 2.06803022]

gradient= [-1.42682969e-05 -1.05500575e-06 1.53233026e-05] w = [-0.0327496 0.96471938 2.06803022] w\_new= [-0.03274975 0.96471937 2.06803037]

gradient= [-1.42475257e-05 -1.05356335e-06 1.53010891e-05] w = [-0.03274975 0.96471937 2.06803037] w\_new= [-0.03274989 0.96471936 2.06803053]

gradient= [-1.42267848e-05 -1.05212290e-06 1.52789077e-05] w = [-0.03274989 0.96471936 2.06803053] w\_new= [-0.03275003 0.96471935 2.06803068]

gradient= [-1.42060741e-05 -1.05068441e-06 1.52567585e-05] w = [-0.03275003 0.96471935 2.06803068] w\_new= [-0.03275017 0.96471934 2.06803083]

gradient= [-1.41853935e-05 -1.04924787e-06 1.52346414e-05] w = [-0.03275017 0.96471934 2.06803083] w\_new= [-0.03275031 0.96471933 2.06803098]

gradient= [-1.41647431e-05 -1.04781328e-06 1.52125564e-05] w = [-0.03275031 0.96471933 2.06803098] w\_new= [-0.03275046 0.96471932 2.06803114]

gradient= [-1.41441227e-05 -1.04638064e-06 1.51905033e-05] w = [-0.03275046 0.96471932 2.06803114] w\_new= [-0.0327506 0.96471931 2.06803129]

gradient= [-1.41235324e-05 -1.04494993e-06 1.51684823e-05] w = [-0.0327506 0.96471931 2.06803129] w\_new= [-0.03275074 0.9647193 2.06803144]

gradient= [-1.41029720e-05 -1.04352117e-06 1.51464932e-05] w = [-0.03275074 0.9647193 2.06803144] w\_new= [-0.03275088 0.96471929 2.06803159]

gradient= [-1.40824415e-05 -1.04209434e-06 1.51245359e-05] w = [-0.03275088 0.96471929 2.06803159] w\_new= [-0.03275102 0.96471928 2.06803174]

gradient= [-1.40619410e-05 -1.04066945e-06 1.51026105e-05] w = [-0.03275102 0.96471928 2.06803174] w\_new= [-0.03275116 0.96471927 2.06803189]

gradient= [-1.40414703e-05 -1.03924650e-06 1.50807168e-05] w = [-0.03275116 0.96471927 2.06803189] w\_new= [-0.0327513 0.96471926 2.06803204]

gradient= [-1.40210294e-05 -1.03782547e-06 1.50588549e-05] w = [-0.0327513 0.96471926 2.06803204] w\_new= [-0.03275144 0.96471925 2.0680322 ]

gradient= [-1.40006183e-05 -1.03640636e-06 1.50370247e-05] w = [-0.03275144 0.96471925 2.0680322 ] w\_new= [-0.03275158 0.96471924 2.06803235]

gradient= [-1.39802369e-05 -1.03498919e-06 1.50152261e-05] w = [-0.03275158 0.96471924 2.06803235] w\_new= [-0.03275172 0.96471923 2.0680325 ]

gradient= [-1.39598852e-05 -1.03357393e-06 1.49934591e-05] w = [-0.03275172 0.96471923 2.0680325 ] w\_new= [-0.03275186 0.96471922 2.06803265]

gradient= [-1.39395631e-05 -1.03216060e-06 1.49717237e-05] w = [-0.03275186 0.96471922 2.06803265] w\_new= [-0.032752 0.96471921 2.0680328 ]

gradient= [-1.39192706e-05 -1.03074918e-06 1.49500198e-05] w = [-0.032752 0.96471921 2.0680328 ] w\_new= [-0.03275214 0.96471919 2.06803295]

gradient= [-1.38990076e-05 -1.02933967e-06 1.49283473e-05] w = [-0.03275214 0.96471919 2.06803295] w\_new= [-0.03275228 0.96471918 2.06803309]

gradient= [-1.38787742e-05 -1.02793208e-06 1.49067062e-05] w = [-0.03275228 0.96471918 2.06803309] w\_new= [-0.03275242 0.96471917 2.06803324]

gradient= [-1.38585702e-05 -1.02652639e-06 1.48850966e-05] w = [-0.03275242 0.96471917 2.06803324] w\_new= [-0.03275256 0.96471916 2.06803339]

gradient= [-1.38383956e-05 -1.02512262e-06 1.48635182e-05] w = [-0.03275256 0.96471916 2.06803339] w\_new= [-0.03275269 0.96471915 2.06803354]

gradient= [-1.38182504e-05 -1.02372074e-06 1.48419712e-05] w = [-0.03275269 0.96471915 2.06803354] w\_new= [-0.03275283 0.96471914 2.06803369]

gradient= [-1.37981345e-05 -1.02232077e-06 1.48204553e-05] w = [-0.03275283 0.96471914 2.06803369] w\_new= [-0.03275297 0.96471913 2.06803384]

gradient= [-1.37780480e-05 -1.02092270e-06 1.47989707e-05] w = [-0.03275297 0.96471913 2.06803384] w\_new= [-0.03275311 0.96471912 2.06803399]

gradient= [-1.37579906e-05 -1.01952652e-06 1.47775172e-05] w = [-0.03275311 0.96471912 2.06803399] w\_new= [-0.03275325 0.96471911 2.06803413]

gradient= [-1.37379625e-05 -1.01813224e-06 1.47560948e-05] w = [-0.03275325 0.96471911 2.06803413] w\_new= [-0.03275338 0.9647191 2.06803428]

gradient= [-1.37179636e-05 -1.01673984e-06 1.47347034e-05] w = [-0.03275338 0.9647191 2.06803428] w\_new= [-0.03275352 0.96471909 2.06803443]

gradient= [-1.36979937e-05 -1.01534934e-06 1.47133430e-05] w = [-0.03275352 0.96471909 2.06803443] w\_new= [-0.03275366 0.96471908 2.06803458]

gradient= [-1.36780529e-05 -1.01396072e-06 1.46920137e-05] w = [-0.03275366 0.96471908 2.06803458] w\_new= [-0.03275379 0.96471907 2.06803472]

gradient= [-1.36581412e-05 -1.01257399e-06 1.46707152e-05] w = [-0.03275379 0.96471907 2.06803472] w\_new= [-0.03275393 0.96471906 2.06803487]

gradient= [-1.36382585e-05 -1.01118914e-06 1.46494476e-05] w = [-0.03275393 0.96471906 2.06803487] w\_new= [-0.03275407 0.96471905 2.06803502]

gradient= [-1.36184047e-05 -1.00980616e-06 1.46282108e-05] w = [-0.03275407 0.96471905 2.06803502] w\_new= [-0.0327542 0.96471904 2.06803516]

gradient= [-1.35985798e-05 -1.00842506e-06 1.46070049e-05] w = [-0.0327542 0.96471904 2.06803516] w\_new= [-0.03275434 0.96471903 2.06803531]

gradient= [-1.35787838e-05 -1.00704584e-06 1.45858296e-05] w = [-0.03275434 0.96471903 2.06803531] w\_new= [-0.03275448 0.96471902 2.06803545]

gradient= [-1.35590166e-05 -1.00566849e-06 1.45646851e-05] w = [-0.03275448 0.96471902 2.06803545] w\_new= [-0.03275461 0.96471901 2.0680356 ]

gradient= [-1.35392782e-05 -1.00429300e-06 1.45435712e-05] w = [-0.03275461 0.96471901 2.0680356 ] w\_new= [-0.03275475 0.964719 2.06803574]

gradient= [-1.35195685e-05 -1.00291938e-06 1.45224879e-05] w = [-0.03275475 0.964719 2.06803574] w\_new= [-0.03275488 0.96471899 2.06803589]

gradient= [-1.34998876e-05 -1.00154762e-06 1.45014352e-05] w = [-0.03275488 0.96471899 2.06803589] w\_new= [-0.03275502 0.96471898 2.06803604]

gradient= [-1.34802352e-05 -1.00017773e-06 1.44804130e-05] w = [-0.03275502 0.96471898 2.06803604] w\_new= [-0.03275515 0.96471897 2.06803618]

gradient= [-1.34606115e-05 -9.98809693e-07 1.44594212e-05] w = [-0.03275515 0.96471897 2.06803618] w\_new= [-0.03275529 0.96471896 2.06803632]

gradient= [-1.34410164e-05 -9.97443512e-07 1.44384599e-05] w = [-0.03275529 0.96471896 2.06803632] w\_new= [-0.03275542 0.96471895 2.06803647]

gradient= [-1.34214498e-05 -9.96079185e-07 1.44175290e-05] w = [-0.03275542 0.96471895 2.06803647] w\_new= [-0.03275555 0.96471894 2.06803661]

gradient= [-1.34019117e-05 -9.94716708e-07 1.43966284e-05] w = [-0.03275555 0.96471894 2.06803661] w\_new= [-0.03275569 0.96471893 2.06803676]

gradient= [-1.33824021e-05 -9.93356081e-07 1.43757581e-05] w = [-0.03275569 0.96471893 2.06803676] w\_new= [-0.03275582 0.96471892 2.0680369 ]

gradient= [-1.33629208e-05 -9.91997299e-07 1.43549181e-05] w = [-0.03275582 0.96471892 2.0680369 ] w\_new= [-0.03275596 0.96471891 2.06803704]

gradient= [-1.33434679e-05 -9.90640361e-07 1.43341083e-05] w = [-0.03275596 0.96471891 2.06803704] w\_new= [-0.03275609 0.9647189 2.06803719]

gradient= [-1.33240434e-05 -9.89285263e-07 1.43133286e-05] w = [-0.03275609 0.9647189 2.06803719] w\_new= [-0.03275622 0.96471889 2.06803733]

gradient= [-1.33046471e-05 -9.87932005e-07 1.42925791e-05] w = [-0.03275622 0.96471889 2.06803733] w\_new= [-0.03275636 0.96471888 2.06803747]

gradient= [-1.32852790e-05 -9.86580582e-07 1.42718596e-05] w = [-0.03275636 0.96471888 2.06803747] w\_new= [-0.03275649 0.96471887 2.06803762]

gradient= [-1.32659392e-05 -9.85230993e-07 1.42511702e-05] w = [-0.03275649 0.96471887 2.06803762] w\_new= [-0.03275662 0.96471886 2.06803776]

gradient= [-1.32466275e-05 -9.83883235e-07 1.42305108e-05] w = [-0.03275662 0.96471886 2.06803776] w\_new= [-0.03275675 0.96471885 2.0680379 ]

gradient= [-1.32273440e-05 -9.82537306e-07 1.42098813e-05] w = [-0.03275675 0.96471885 2.0680379 ] w\_new= [-0.03275689 0.96471884 2.06803804]

gradient= [-1.32080885e-05 -9.81193204e-07 1.41892817e-05] w = [-0.03275689 0.96471884 2.06803804] w\_new= [-0.03275702 0.96471883 2.06803819]

gradient= [-1.31888611e-05 -9.79850925e-07 1.41687120e-05] w = [-0.03275702 0.96471883 2.06803819] w\_new= [-0.03275715 0.96471882 2.06803833]

gradient= [-1.31696616e-05 -9.78510467e-07 1.41481721e-05] w = [-0.03275715 0.96471882 2.06803833] w\_new= [-0.03275728 0.96471881 2.06803847]

gradient= [-1.31504901e-05 -9.77171828e-07 1.41276619e-05] w = [-0.03275728 0.96471881 2.06803847] w\_new= [-0.03275741 0.9647188 2.06803861]

gradient= [-1.31313465e-05 -9.75835006e-07 1.41071815e-05] w = [-0.03275741 0.9647188 2.06803861] w\_new= [-0.03275754 0.96471879 2.06803875]

gradient= [-1.31122308e-05 -9.74499997e-07 1.40867308e-05] w = [-0.03275754 0.96471879 2.06803875] w\_new= [-0.03275768 0.96471878 2.06803889]

gradient= [-1.30931430e-05 -9.73166801e-07 1.40663098e-05] w = [-0.03275768 0.96471878 2.06803889] w\_new= [-0.03275781 0.96471877 2.06803903]

gradient= [-1.30740829e-05 -9.71835413e-07 1.40459183e-05] w = [-0.03275781 0.96471877 2.06803903] w\_new= [-0.03275794 0.96471876 2.06803917]

gradient= [-1.30550506e-05 -9.70505832e-07 1.40255564e-05] w = [-0.03275794 0.96471876 2.06803917] w\_new= [-0.03275807 0.96471875 2.06803931]

gradient= [-1.30360459e-05 -9.69178056e-07 1.40052240e-05] w = [-0.03275807 0.96471875 2.06803931] w\_new= [-0.0327582 0.96471875 2.06803945]

gradient= [-1.30170690e-05 -9.67852081e-07 1.39849211e-05] w = [-0.0327582 0.96471875 2.06803945] w\_new= [-0.03275833 0.96471874 2.06803959]

gradient= [-1.29981197e-05 -9.66527906e-07 1.39646476e-05] w = [-0.03275833 0.96471874 2.06803959] w\_new= [-0.03275846 0.96471873 2.06803973]

gradient= [-1.29791980e-05 -9.65205527e-07 1.39444035e-05] w = [-0.03275846 0.96471873 2.06803973] w\_new= [-0.03275859 0.96471872 2.06803987]

gradient= [-1.29603038e-05 -9.63884944e-07 1.39241887e-05] w = [-0.03275859 0.96471872 2.06803987] w\_new= [-0.03275872 0.96471871 2.06804001]

gradient= [-1.29414371e-05 -9.62566152e-07 1.39040033e-05] w = [-0.03275872 0.96471871 2.06804001] w\_new= [-0.03275885 0.9647187 2.06804015]

gradient= [-1.29225979e-05 -9.61249150e-07 1.38838471e-05] w = [-0.03275885 0.9647187 2.06804015] w\_new= [-0.03275898 0.96471869 2.06804029]

gradient= [-1.29037862e-05 -9.59933936e-07 1.38637201e-05] w = [-0.03275898 0.96471869 2.06804029] w\_new= [-0.03275911 0.96471868 2.06804043]

gradient= [-1.28850018e-05 -9.58620507e-07 1.38436223e-05] w = [-0.03275911 0.96471868 2.06804043] w\_new= [-0.03275923 0.96471867 2.06804057]

gradient= [-1.28662448e-05 -9.57308860e-07 1.38235536e-05] w = [-0.03275923 0.96471867 2.06804057] w\_new= [-0.03275936 0.96471866 2.0680407 ]

gradient= [-1.28475151e-05 -9.55998993e-07 1.38035141e-05] w = [-0.03275936 0.96471866 2.0680407 ] w\_new= [-0.03275949 0.96471865 2.06804084]

gradient= [-1.28288126e-05 -9.54690905e-07 1.37835035e-05] w = [-0.03275949 0.96471865 2.06804084] w\_new= [-0.03275962 0.96471864 2.06804098]

gradient= [-1.28101374e-05 -9.53384591e-07 1.37635220e-05] w = [-0.03275962 0.96471864 2.06804098] w\_new= [-0.03275975 0.96471863 2.06804112]

gradient= [-1.27914894e-05 -9.52080051e-07 1.37435695e-05] w = [-0.03275975 0.96471863 2.06804112] w\_new= [-0.03275988 0.96471862 2.06804126]

gradient= [-1.27728685e-05 -9.50777281e-07 1.37236458e-05] w = [-0.03275988 0.96471862 2.06804126] w\_new= [-0.03276 0.96471861 2.06804139]

gradient= [-1.27542748e-05 -9.49476280e-07 1.37037511e-05] w = [-0.03276 0.96471861 2.06804139] w\_new= [-0.03276013 0.9647186 2.06804153]

gradient= [-1.27357081e-05 -9.48177044e-07 1.36838852e-05] w = [-0.03276013 0.9647186 2.06804153] w\_new= [-0.03276026 0.96471859 2.06804167]

gradient= [-1.27171685e-05 -9.46879572e-07 1.36640480e-05] w = [-0.03276026 0.96471859 2.06804167] w\_new= [-0.03276039 0.96471858 2.0680418 ]

gradient= [-1.26986558e-05 -9.45583861e-07 1.36442397e-05] w = [-0.03276039 0.96471858 2.0680418 ] w\_new= [-0.03276051 0.96471857 2.06804194]

gradient= [-1.26801701e-05 -9.44289909e-07 1.36244600e-05] w = [-0.03276051 0.96471857 2.06804194] w\_new= [-0.03276064 0.96471856 2.06804208]

gradient= [-1.26617113e-05 -9.42997713e-07 1.36047091e-05] w = [-0.03276064 0.96471856 2.06804208] w\_new= [-0.03276077 0.96471855 2.06804221]

gradient= [-1.26432794e-05 -9.41707271e-07 1.35849867e-05] w = [-0.03276077 0.96471855 2.06804221] w\_new= [-0.03276089 0.96471854 2.06804235]

gradient= [-1.26248744e-05 -9.40418581e-07 1.35652930e-05] w = [-0.03276089 0.96471854 2.06804235] w\_new= [-0.03276102 0.96471854 2.06804248]

gradient= [-1.26064961e-05 -9.39131640e-07 1.35456278e-05] w = [-0.03276102 0.96471854 2.06804248] w\_new= [-0.03276114 0.96471853 2.06804262]

gradient= [-1.25881446e-05 -9.37846447e-07 1.35259910e-05] w = [-0.03276114 0.96471853 2.06804262] w\_new= [-0.03276127 0.96471852 2.06804275]

gradient= [-1.25698198e-05 -9.36562997e-07 1.35063828e-05] w = [-0.03276127 0.96471852 2.06804275] w\_new= [-0.0327614 0.96471851 2.06804289]

gradient= [-1.25515217e-05 -9.35281291e-07 1.34868030e-05] w = [-0.0327614 0.96471851 2.06804289] w\_new= [-0.03276152 0.9647185 2.06804302]

gradient= [-1.25332502e-05 -9.34001324e-07 1.34672516e-05] w = [-0.03276152 0.9647185 2.06804302] w\_new= [-0.03276165 0.96471849 2.06804316]

gradient= [-1.25150054e-05 -9.32723094e-07 1.34477285e-05] w = [-0.03276165 0.96471849 2.06804316] w\_new= [-0.03276177 0.96471848 2.06804329]

gradient= [-1.24967871e-05 -9.31446600e-07 1.34282337e-05] w = [-0.03276177 0.96471848 2.06804329] w\_new= [-0.0327619 0.96471847 2.06804343]

gradient= [-1.24785953e-05 -9.30171839e-07 1.34087671e-05] w = [-0.0327619 0.96471847 2.06804343] w\_new= [-0.03276202 0.96471846 2.06804356]

gradient= [-1.24604300e-05 -9.28898809e-07 1.33893288e-05] w = [-0.03276202 0.96471846 2.06804356] w\_new= [-0.03276215 0.96471845 2.0680437 ]

gradient= [-1.24422912e-05 -9.27627506e-07 1.33699187e-05] w = [-0.03276215 0.96471845 2.0680437 ] w\_new= [-0.03276227 0.96471844 2.06804383]

gradient= [-1.24241788e-05 -9.26357930e-07 1.33505367e-05] w = [-0.03276227 0.96471844 2.06804383] w\_new= [-0.0327624 0.96471843 2.06804396]

gradient= [-1.24060927e-05 -9.25090077e-07 1.33311828e-05] w = [-0.0327624 0.96471843 2.06804396] w\_new= [-0.03276252 0.96471842 2.0680441 ]

gradient= [-1.23880330e-05 -9.23823946e-07 1.33118569e-05] w = [-0.03276252 0.96471842 2.0680441 ] w\_new= [-0.03276264 0.96471841 2.06804423]

gradient= [-1.23699996e-05 -9.22559534e-07 1.32925591e-05] w = [-0.03276264 0.96471841 2.06804423] w\_new= [-0.03276277 0.96471841 2.06804436]

gradient= [-1.23519924e-05 -9.21296838e-07 1.32732892e-05] w = [-0.03276277 0.96471841 2.06804436] w\_new= [-0.03276289 0.9647184 2.06804449]

gradient= [-1.23340115e-05 -9.20035857e-07 1.32540473e-05] w = [-0.03276289 0.9647184 2.06804449] w\_new= [-0.03276301 0.96471839 2.06804463]

gradient= [-1.23160567e-05 -9.18776588e-07 1.32348333e-05] w = [-0.03276301 0.96471839 2.06804463] w\_new= [-0.03276314 0.96471838 2.06804476]

gradient= [-1.22981281e-05 -9.17519028e-07 1.32156471e-05] w = [-0.03276314 0.96471838 2.06804476] w\_new= [-0.03276326 0.96471837 2.06804489]

gradient= [-1.22802255e-05 -9.16263176e-07 1.31964887e-05] w = [-0.03276326 0.96471837 2.06804489] w\_new= [-0.03276338 0.96471836 2.06804502]

gradient= [-1.22623491e-05 -9.15009030e-07 1.31773581e-05] w = [-0.03276338 0.96471836 2.06804502] w\_new= [-0.03276351 0.96471835 2.06804516]

gradient= [-1.22444987e-05 -9.13756586e-07 1.31582552e-05] w = [-0.03276351 0.96471835 2.06804516] w\_new= [-0.03276363 0.96471834 2.06804529]

gradient= [-1.22266742e-05 -9.12505842e-07 1.31391801e-05] w = [-0.03276363 0.96471834 2.06804529] w\_new= [-0.03276375 0.96471833 2.06804542]

gradient= [-1.22088757e-05 -9.11256798e-07 1.31201325e-05] w = [-0.03276375 0.96471833 2.06804542] w\_new= [-0.03276387 0.96471832 2.06804555]

gradient= [-1.21911032e-05 -9.10009449e-07 1.31011126e-05] w = [-0.03276387 0.96471832 2.06804555] w\_new= [-0.03276399 0.96471831 2.06804568]

gradient= [-1.21733565e-05 -9.08763793e-07 1.30821203e-05] w = [-0.03276399 0.96471831 2.06804568] w\_new= [-0.03276412 0.9647183 2.06804581]

gradient= [-1.21556356e-05 -9.07519830e-07 1.30631554e-05] w = [-0.03276412 0.9647183 2.06804581] w\_new= [-0.03276424 0.9647183 2.06804594]

gradient= [-1.21379406e-05 -9.06277555e-07 1.30442181e-05] w = [-0.03276424 0.9647183 2.06804594] w\_new= [-0.03276436 0.96471829 2.06804607]

gradient= [-1.21202713e-05 -9.05036968e-07 1.30253082e-05] w = [-0.03276436 0.96471829 2.06804607] w\_new= [-0.03276448 0.96471828 2.0680462 ]

gradient= [-1.21026277e-05 -9.03798065e-07 1.30064258e-05] w = [-0.03276448 0.96471828 2.0680462 ] w\_new= [-0.0327646 0.96471827 2.06804633]

gradient= [-1.20850098e-05 -9.02560844e-07 1.29875707e-05] w = [-0.0327646 0.96471827 2.06804633] w\_new= [-0.03276472 0.96471826 2.06804646]

gradient= [-1.20674176e-05 -9.01325304e-07 1.29687429e-05] w = [-0.03276472 0.96471826 2.06804646] w\_new= [-0.03276484 0.96471825 2.06804659]

gradient= [-1.20498510e-05 -9.00091441e-07 1.29499425e-05] w = [-0.03276484 0.96471825 2.06804659] w\_new= [-0.03276496 0.96471824 2.06804672]

gradient= [-1.20323100e-05 -8.98859254e-07 1.29311692e-05] w = [-0.03276496 0.96471824 2.06804672] w\_new= [-0.03276508 0.96471823 2.06804685]

gradient= [-1.20147945e-05 -8.97628741e-07 1.29124232e-05] w = [-0.03276508 0.96471823 2.06804685] w\_new= [-0.0327652 0.96471822 2.06804698]

gradient= [-1.19973045e-05 -8.96399898e-07 1.28937044e-05] w = [-0.0327652 0.96471822 2.06804698] w\_new= [-0.03276532 0.96471821 2.06804711]

gradient= [-1.19798400e-05 -8.95172725e-07 1.28750127e-05] w = [-0.03276532 0.96471821 2.06804711] w\_new= [-0.03276544 0.96471821 2.06804724]

gradient= [-1.19624009e-05 -8.93947218e-07 1.28563481e-05] w = [-0.03276544 0.96471821 2.06804724] w\_new= [-0.03276556 0.9647182 2.06804737]

gradient= [-1.19449872e-05 -8.92723375e-07 1.28377106e-05] w = [-0.03276556 0.9647182 2.06804737] w\_new= [-0.03276568 0.96471819 2.0680475 ]

gradient= [-1.19275988e-05 -8.91501195e-07 1.28191000e-05] w = [-0.03276568 0.96471819 2.0680475 ] w\_new= [-0.0327658 0.96471818 2.06804762]

gradient= [-1.19102358e-05 -8.90280674e-07 1.28005165e-05] w = [-0.0327658 0.96471818 2.06804762] w\_new= [-0.03276592 0.96471817 2.06804775]

gradient= [-1.18928981e-05 -8.89061811e-07 1.27819599e-05] w = [-0.03276592 0.96471817 2.06804775] w\_new= [-0.03276604 0.96471816 2.06804788]

gradient= [-1.18755856e-05 -8.87844604e-07 1.27634302e-05] w = [-0.03276604 0.96471816 2.06804788] w\_new= [-0.03276616 0.96471815 2.06804801]

gradient= [-1.18582983e-05 -8.86629049e-07 1.27449273e-05] w = [-0.03276616 0.96471815 2.06804801] w\_new= [-0.03276628 0.96471814 2.06804813]

gradient= [-1.18410361e-05 -8.85415146e-07 1.27264513e-05] w = [-0.03276628 0.96471814 2.06804813] w\_new= [-0.0327664 0.96471813 2.06804826]

gradient= [-1.18237991e-05 -8.84202892e-07 1.27080020e-05] w = [-0.0327664 0.96471813 2.06804826] w\_new= [-0.03276651 0.96471813 2.06804839]

gradient= [-1.18065872e-05 -8.82992284e-07 1.26895795e-05] w = [-0.03276651 0.96471813 2.06804839] w\_new= [-0.03276663 0.96471812 2.06804852]

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gradient= [-1.17722386e-05 -8.80575999e-07 1.26528146e-05] w = [-0.03276675 0.96471811 2.06804864] w\_new= [-0.03276687 0.9647181 2.06804877]

gradient= [-1.17551018e-05 -8.79370317e-07 1.26344721e-05] w = [-0.03276687 0.9647181 2.06804877] w\_new= [-0.03276699 0.96471809 2.0680489 ]

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gradient= [-1.17209029e-05 -8.76963865e-07 1.25978668e-05] w = [-0.0327671 0.96471808 2.06804902] w\_new= [-0.03276722 0.96471807 2.06804915]

gradient= [-1.17038408e-05 -8.75763090e-07 1.25796039e-05] w = [-0.03276722 0.96471807 2.06804915] w\_new= [-0.03276734 0.96471806 2.06804927]

gradient= [-1.16868036e-05 -8.74563946e-07 1.25613675e-05] w = [-0.03276734 0.96471806 2.06804927] w\_new= [-0.03276745 0.96471805 2.0680494 ]

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gradient= [-1.16528035e-05 -8.72170542e-07 1.25249740e-05] w = [-0.03276757 0.96471805 2.06804952] w\_new= [-0.03276769 0.96471804 2.06804965]

gradient= [-1.16358406e-05 -8.70976278e-07 1.25068169e-05] w = [-0.03276769 0.96471804 2.06804965] w\_new= [-0.0327678 0.96471803 2.06804977]

gradient= [-1.16189023e-05 -8.69783637e-07 1.24886860e-05] w = [-0.0327678 0.96471803 2.06804977] w\_new= [-0.03276792 0.96471802 2.0680499 ]

gradient= [-1.16019888e-05 -8.68592615e-07 1.24705814e-05] w = [-0.03276792 0.96471802 2.0680499 ] w\_new= [-0.03276804 0.96471801 2.06805002]

gradient= [-1.15850998e-05 -8.67403212e-07 1.24525030e-05] w = [-0.03276804 0.96471801 2.06805002] w\_new= [-0.03276815 0.964718 2.06805015]

gradient= [-1.15682355e-05 -8.66215425e-07 1.24344509e-05] w = [-0.03276815 0.964718 2.06805015] w\_new= [-0.03276827 0.96471799 2.06805027]

gradient= [-1.15513957e-05 -8.65029251e-07 1.24164249e-05] w = [-0.03276827 0.96471799 2.06805027] w\_new= [-0.03276838 0.96471799 2.0680504 ]

gradient= [-1.15345804e-05 -8.63844688e-07 1.23984251e-05] w = [-0.03276838 0.96471799 2.0680504 ] w\_new= [-0.0327685 0.96471798 2.06805052]

gradient= [-1.15177896e-05 -8.62661735e-07 1.23804513e-05] w = [-0.0327685 0.96471798 2.06805052] w\_new= [-0.03276861 0.96471797 2.06805064]

gradient= [-1.15010232e-05 -8.61480389e-07 1.23625036e-05] w = [-0.03276861 0.96471797 2.06805064] w\_new= [-0.03276873 0.96471796 2.06805077]

gradient= [-1.14842813e-05 -8.60300648e-07 1.23445819e-05] w = [-0.03276873 0.96471796 2.06805077] w\_new= [-0.03276884 0.96471795 2.06805089]

gradient= [-1.14675637e-05 -8.59122510e-07 1.23266862e-05] w = [-0.03276884 0.96471795 2.06805089] w\_new= [-0.03276896 0.96471794 2.06805102]

gradient= [-1.14508705e-05 -8.57945972e-07 1.23088165e-05] w = [-0.03276896 0.96471794 2.06805102] w\_new= [-0.03276907 0.96471793 2.06805114]

gradient= [-1.14342016e-05 -8.56771033e-07 1.22909726e-05] w = [-0.03276907 0.96471793 2.06805114] w\_new= [-0.03276919 0.96471793 2.06805126]

gradient= [-1.14175569e-05 -8.55597691e-07 1.22731546e-05] w = [-0.03276919 0.96471793 2.06805126] w\_new= [-0.0327693 0.96471792 2.06805138]

gradient= [-1.14009365e-05 -8.54425942e-07 1.22553625e-05] w = [-0.0327693 0.96471792 2.06805138] w\_new= [-0.03276941 0.96471791 2.06805151]

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gradient= [-1.13677683e-05 -8.52087219e-07 1.22198555e-05] w = [-0.03276953 0.9647179 2.06805163] w\_new= [-0.03276964 0.96471789 2.06805175]

gradient= [-1.13512203e-05 -8.50920240e-07 1.22021406e-05] w = [-0.03276964 0.96471789 2.06805175] w\_new= [-0.03276976 0.96471788 2.06805187]

gradient= [-1.13346965e-05 -8.49754847e-07 1.21844514e-05] w = [-0.03276976 0.96471788 2.06805187] w\_new= [-0.03276987 0.96471787 2.06805199]

gradient= [-1.13181967e-05 -8.48591037e-07 1.21667878e-05] w = [-0.03276987 0.96471787 2.06805199] w\_new= [-0.03276998 0.96471787 2.06805212]

gradient= [-1.13017210e-05 -8.47428809e-07 1.21491498e-05] w = [-0.03276998 0.96471787 2.06805212] w\_new= [-0.0327701 0.96471786 2.06805224]

gradient= [-1.12852692e-05 -8.46268160e-07 1.21315374e-05] w = [-0.0327701 0.96471786 2.06805224] w\_new= [-0.03277021 0.96471785 2.06805236]

gradient= [-1.12688414e-05 -8.45109088e-07 1.21139505e-05] w = [-0.03277021 0.96471785 2.06805236] w\_new= [-0.03277032 0.96471784 2.06805248]

gradient= [-1.12524375e-05 -8.43951591e-07 1.20963891e-05] w = [-0.03277032 0.96471784 2.06805248] w\_new= [-0.03277043 0.96471783 2.0680526 ]

gradient= [-1.12360575e-05 -8.42795667e-07 1.20788532e-05] w = [-0.03277043 0.96471783 2.0680526 ] w\_new= [-0.03277055 0.96471782 2.06805272]

gradient= [-1.12197014e-05 -8.41641313e-07 1.20613427e-05] w = [-0.03277055 0.96471782 2.06805272] w\_new= [-0.03277066 0.96471781 2.06805284]

gradient= [-1.12033690e-05 -8.40488528e-07 1.20438576e-05] w = [-0.03277066 0.96471781 2.06805284] w\_new= [-0.03277077 0.96471781 2.06805296]

gradient= [-1.11870605e-05 -8.39337310e-07 1.20263978e-05] w = [-0.03277077 0.96471781 2.06805296] w\_new= [-0.03277088 0.9647178 2.06805308]

gradient= [-1.11707757e-05 -8.38187657e-07 1.20089633e-05] w = [-0.03277088 0.9647178 2.06805308] w\_new= [-0.03277099 0.96471779 2.0680532 ]

gradient= [-1.11545145e-05 -8.37039565e-07 1.19915541e-05] w = [-0.03277099 0.96471779 2.0680532 ] w\_new= [-0.0327711 0.96471778 2.06805332]

gradient= [-1.11382771e-05 -8.35893034e-07 1.19741701e-05] w = [-0.0327711 0.96471778 2.06805332] w\_new= [-0.03277122 0.96471777 2.06805344]

gradient= [-1.11220633e-05 -8.34748061e-07 1.19568114e-05] w = [-0.03277122 0.96471777 2.06805344] w\_new= [-0.03277133 0.96471776 2.06805356]

gradient= [-1.11058731e-05 -8.33604644e-07 1.19394778e-05] w = [-0.03277133 0.96471776 2.06805356] w\_new= [-0.03277144 0.96471776 2.06805368]

gradient= [-1.10897065e-05 -8.32462780e-07 1.19221693e-05] w = [-0.03277144 0.96471776 2.06805368] w\_new= [-0.03277155 0.96471775 2.0680538 ]

gradient= [-1.10735635e-05 -8.31322469e-07 1.19048859e-05] w = [-0.03277155 0.96471775 2.0680538 ] w\_new= [-0.03277166 0.96471774 2.06805392]

gradient= [-1.10574439e-05 -8.30183707e-07 1.18876276e-05] w = [-0.03277166 0.96471774 2.06805392] w\_new= [-0.03277177 0.96471773 2.06805404]

gradient= [-1.10413478e-05 -8.29046493e-07 1.18703943e-05] w = [-0.03277177 0.96471773 2.06805404] w\_new= [-0.03277188 0.96471772 2.06805416]

gradient= [-1.10252751e-05 -8.27910825e-07 1.18531860e-05] w = [-0.03277188 0.96471772 2.06805416] w\_new= [-0.03277199 0.96471771 2.06805428]

gradient= [-1.10092259e-05 -8.26776700e-07 1.18360026e-05] w = [-0.03277199 0.96471771 2.06805428] w\_new= [-0.0327721 0.96471771 2.06805439]

gradient= [-1.09932000e-05 -8.25644116e-07 1.18188441e-05] w = [-0.0327721 0.96471771 2.06805439] w\_new= [-0.03277221 0.9647177 2.06805451]

gradient= [-1.09771974e-05 -8.24513072e-07 1.18017105e-05] w = [-0.03277221 0.9647177 2.06805451] w\_new= [-0.03277232 0.96471769 2.06805463]

gradient= [-1.09612181e-05 -8.23383565e-07 1.17846017e-05] w = [-0.03277232 0.96471769 2.06805463] w\_new= [-0.03277243 0.96471768 2.06805475]

gradient= [-1.09452621e-05 -8.22255594e-07 1.17675177e-05] w = [-0.03277243 0.96471768 2.06805475] w\_new= [-0.03277254 0.96471767 2.06805487]

gradient= [-1.09293294e-05 -8.21129155e-07 1.17504585e-05] w = [-0.03277254 0.96471767 2.06805487] w\_new= [-0.03277265 0.96471767 2.06805498]

gradient= [-1.09134198e-05 -8.20004248e-07 1.17334241e-05] w = [-0.03277265 0.96471767 2.06805498] w\_new= [-0.03277276 0.96471766 2.0680551 ]

gradient= [-1.08975334e-05 -8.18880869e-07 1.17164143e-05] w = [-0.03277276 0.96471766 2.0680551 ] w\_new= [-0.03277287 0.96471765 2.06805522]

gradient= [-1.08816701e-05 -8.17759017e-07 1.16994292e-05] w = [-0.03277287 0.96471765 2.06805522] w\_new= [-0.03277298 0.96471764 2.06805534]

gradient= [-1.08658300e-05 -8.16638691e-07 1.16824686e-05] w = [-0.03277298 0.96471764 2.06805534] w\_new= [-0.03277309 0.96471763 2.06805545]

gradient= [-1.08500128e-05 -8.15519887e-07 1.16655327e-05] w = [-0.03277309 0.96471763 2.06805545] w\_new= [-0.03277319 0.96471762 2.06805557]

gradient= [-1.08342188e-05 -8.14402604e-07 1.16486214e-05] w = [-0.03277319 0.96471762 2.06805557] w\_new= [-0.0327733 0.96471762 2.06805569]

gradient= [-1.08184477e-05 -8.13286839e-07 1.16317345e-05] w = [-0.0327733 0.96471762 2.06805569] w\_new= [-0.03277341 0.96471761 2.0680558 ]

gradient= [-1.08026995e-05 -8.12172592e-07 1.16148721e-05] w = [-0.03277341 0.96471761 2.0680558 ] w\_new= [-0.03277352 0.9647176 2.06805592]

gradient= [-1.07869743e-05 -8.11059859e-07 1.15980342e-05] w = [-0.03277352 0.9647176 2.06805592] w\_new= [-0.03277363 0.96471759 2.06805603]

gradient= [-1.07712720e-05 -8.09948638e-07 1.15812207e-05] w = [-0.03277363 0.96471759 2.06805603] w\_new= [-0.03277373 0.96471758 2.06805615]

gradient= [-1.07555926e-05 -8.08838929e-07 1.15644315e-05] w = [-0.03277373 0.96471758 2.06805615] w\_new= [-0.03277384 0.96471758 2.06805627]

gradient= [-1.07399360e-05 -8.07730727e-07 1.15476667e-05] w = [-0.03277384 0.96471758 2.06805627] w\_new= [-0.03277395 0.96471757 2.06805638]

gradient= [-1.07243022e-05 -8.06624033e-07 1.15309262e-05] w = [-0.03277395 0.96471757 2.06805638] w\_new= [-0.03277406 0.96471756 2.0680565 ]

gradient= [-1.07086911e-05 -8.05518842e-07 1.15142099e-05] w = [-0.03277406 0.96471756 2.0680565 ] w\_new= [-0.03277416 0.96471755 2.06805661]

gradient= [-1.06931028e-05 -8.04415154e-07 1.14975179e-05] w = [-0.03277416 0.96471755 2.06805661] w\_new= [-0.03277427 0.96471754 2.06805673]

gradient= [-1.06775371e-05 -8.03312967e-07 1.14808501e-05] w = [-0.03277427 0.96471754 2.06805673] w\_new= [-0.03277438 0.96471754 2.06805684]

gradient= [-1.06619942e-05 -8.02212278e-07 1.14642064e-05] w = [-0.03277438 0.96471754 2.06805684] w\_new= [-0.03277448 0.96471753 2.06805696]

gradient= [-1.06464738e-05 -8.01113085e-07 1.14475869e-05] w = [-0.03277448 0.96471753 2.06805696] w\_new= [-0.03277459 0.96471752 2.06805707]

gradient= [-1.06309761e-05 -8.00015387e-07 1.14309915e-05] w = [-0.03277459 0.96471752 2.06805707] w\_new= [-0.0327747 0.96471751 2.06805718]

gradient= [-1.06155009e-05 -7.98919181e-07 1.14144201e-05] w = [-0.0327747 0.96471751 2.06805718] w\_new= [-0.0327748 0.9647175 2.0680573]

gradient= [-1.06000483e-05 -7.97824466e-07 1.13978727e-05] w = [-0.0327748 0.9647175 2.0680573] w\_new= [-0.03277491 0.9647175 2.06805741]

gradient= [-1.05846181e-05 -7.96731238e-07 1.13813494e-05] w = [-0.03277491 0.9647175 2.06805741] w\_new= [-0.03277501 0.96471749 2.06805753]

gradient= [-1.05692104e-05 -7.95639498e-07 1.13648499e-05] w = [-0.03277501 0.96471749 2.06805753] w\_new= [-0.03277512 0.96471748 2.06805764]

gradient= [-1.05538252e-05 -7.94549241e-07 1.13483744e-05] w = [-0.03277512 0.96471748 2.06805764] w\_new= [-0.03277523 0.96471747 2.06805775]

gradient= [-1.05384623e-05 -7.93460467e-07 1.13319228e-05] w = [-0.03277523 0.96471747 2.06805775] w\_new= [-0.03277533 0.96471746 2.06805787]

gradient= [-1.05231219e-05 -7.92373173e-07 1.13154950e-05] w = [-0.03277533 0.96471746 2.06805787] w\_new= [-0.03277544 0.96471746 2.06805798]

gradient= [-1.05078037e-05 -7.91287358e-07 1.12990911e-05] w = [-0.03277544 0.96471746 2.06805798] w\_new= [-0.03277554 0.96471745 2.06805809]

gradient= [-1.04925079e-05 -7.90203019e-07 1.12827109e-05] w = [-0.03277554 0.96471745 2.06805809] w\_new= [-0.03277565 0.96471744 2.06805821]

gradient= [-1.04772343e-05 -7.89120154e-07 1.12663544e-05] w = [-0.03277565 0.96471744 2.06805821] w\_new= [-0.03277575 0.96471743 2.06805832]

gradient= [-1.04619830e-05 -7.88038762e-07 1.12500217e-05] w = [-0.03277575 0.96471743 2.06805832] w\_new= [-0.03277586 0.96471742 2.06805843]

gradient= [-1.04467538e-05 -7.86958840e-07 1.12337127e-05] w = [-0.03277586 0.96471742 2.06805843] w\_new= [-0.03277596 0.96471742 2.06805854]

gradient= [-1.04315469e-05 -7.85880386e-07 1.12174272e-05] w = [-0.03277596 0.96471742 2.06805854] w\_new= [-0.03277606 0.96471741 2.06805866]

gradient= [-1.04163620e-05 -7.84803399e-07 1.12011654e-05] w = [-0.03277606 0.96471741 2.06805866] w\_new= [-0.03277617 0.9647174 2.06805877]

gradient= [-1.04011993e-05 -7.83727877e-07 1.11849272e-05] w = [-0.03277617 0.9647174 2.06805877] w\_new= [-0.03277627 0.96471739 2.06805888]

gradient= [-1.03860587e-05 -7.82653816e-07 1.11687125e-05] w = [-0.03277627 0.96471739 2.06805888] w\_new= [-0.03277638 0.96471738 2.06805899]

gradient= [-1.03709401e-05 -7.81581217e-07 1.11525213e-05] w = [-0.03277638 0.96471738 2.06805899] w\_new= [-0.03277648 0.96471738 2.0680591 ]

gradient= [-1.03558435e-05 -7.80510076e-07 1.11363536e-05] w = [-0.03277648 0.96471738 2.0680591 ] w\_new= [-0.03277658 0.96471737 2.06805921]

gradient= [-1.03407689e-05 -7.79440391e-07 1.11202093e-05] w = [-0.03277658 0.96471737 2.06805921] w\_new= [-0.03277669 0.96471736 2.06805933]

gradient= [-1.03257163e-05 -7.78372162e-07 1.11040884e-05] w = [-0.03277669 0.96471736 2.06805933] w\_new= [-0.03277679 0.96471735 2.06805944]

gradient= [-1.03106855e-05 -7.77305384e-07 1.10879909e-05] w = [-0.03277679 0.96471735 2.06805944] w\_new= [-0.03277689 0.96471735 2.06805955]

gradient= [-1.02956767e-05 -7.76240058e-07 1.10719168e-05] w = [-0.03277689 0.96471735 2.06805955] w\_new= [-0.032777 0.96471734 2.06805966]

gradient= [-1.02806897e-05 -7.75176180e-07 1.10558659e-05] w = [-0.032777 0.96471734 2.06805966] w\_new= [-0.0327771 0.96471733 2.06805977]

gradient= [-1.02657245e-05 -7.74113750e-07 1.10398383e-05] w = [-0.0327771 0.96471733 2.06805977] w\_new= [-0.0327772 0.96471732 2.06805988]

gradient= [-1.02507811e-05 -7.73052764e-07 1.10238339e-05] w = [-0.0327772 0.96471732 2.06805988] w\_new= [-0.0327773 0.96471731 2.06805999]

gradient= [-1.02358595e-05 -7.71993221e-07 1.10078527e-05] w = [-0.0327773 0.96471731 2.06805999] w\_new= [-0.03277741 0.96471731 2.0680601 ]

gradient= [-1.02209596e-05 -7.70935119e-07 1.09918947e-05] w = [-0.03277741 0.96471731 2.0680601 ] w\_new= [-0.03277751 0.9647173 2.06806021]

gradient= [-1.02060814e-05 -7.69878455e-07 1.09759598e-05] w = [-0.03277751 0.9647173 2.06806021] w\_new= [-0.03277761 0.96471729 2.06806032]

gradient= [-1.01912248e-05 -7.68823229e-07 1.09600481e-05] w = [-0.03277761 0.96471729 2.06806032] w\_new= [-0.03277771 0.96471728 2.06806043]

gradient= [-1.01763899e-05 -7.67769439e-07 1.09441593e-05] w = [-0.03277771 0.96471728 2.06806043] w\_new= [-0.03277781 0.96471728 2.06806054]

gradient= [-1.01615766e-05 -7.66717081e-07 1.09282937e-05] w = [-0.03277781 0.96471728 2.06806054] w\_new= [-0.03277792 0.96471727 2.06806065]

gradient= [-1.01467848e-05 -7.65666155e-07 1.09124510e-05] w = [-0.03277792 0.96471727 2.06806065] w\_new= [-0.03277802 0.96471726 2.06806076]

gradient= [-1.01320146e-05 -7.64616658e-07 1.08966313e-05] w = [-0.03277802 0.96471726 2.06806076] w\_new= [-0.03277812 0.96471725 2.06806087]

gradient= [-1.01172659e-05 -7.63568588e-07 1.08808345e-05] w = [-0.03277812 0.96471725 2.06806087] w\_new= [-0.03277822 0.96471725 2.06806097]

gradient= [-1.01025386e-05 -7.62521944e-07 1.08650606e-05] w = [-0.03277822 0.96471725 2.06806097] w\_new= [-0.03277832 0.96471724 2.06806108]

gradient= [-1.00878328e-05 -7.61476724e-07 1.08493096e-05] w = [-0.03277832 0.96471724 2.06806108] w\_new= [-0.03277842 0.96471723 2.06806119]

gradient= [-1.00731485e-05 -7.60432925e-07 1.08335814e-05] w = [-0.03277842 0.96471723 2.06806119] w\_new= [-0.03277852 0.96471722 2.0680613 ]

gradient= [-1.00584854e-05 -7.59390546e-07 1.08178760e-05] w = [-0.03277852 0.96471722 2.0680613 ] w\_new= [-0.03277862 0.96471722 2.06806141]

gradient= [-1.00438438e-05 -7.58349585e-07 1.08021934e-05] w = [-0.03277862 0.96471722 2.06806141] w\_new= [-0.03277872 0.96471721 2.06806152]

gradient= [-1.00292234e-05 -7.57310040e-07 1.07865335e-05] w = [-0.03277872 0.96471721 2.06806152] w\_new= [-0.03277882 0.9647172 2.06806162]

gradient= [-1.00146244e-05 -7.56271909e-07 1.07708963e-05] w = [-0.03277882 0.9647172 2.06806162] w\_new= [-0.03277892 0.96471719 2.06806173]

gradient= [-1.00000466e-05 -7.55235190e-07 1.07552818e-05] w = [-0.03277892 0.96471719 2.06806173] w\_new= [-0.03277902 0.96471719 2.06806184]

gradient= [-9.98549000e-06 -7.54199881e-07 1.07396899e-05] w = [-0.03277902 0.96471719 2.06806184] w\_new= [-0.03277912 0.96471718 2.06806195]

gradient= [-9.97095461e-06 -7.53165980e-07 1.07241206e-05] w = [-0.03277912 0.96471718 2.06806195] w\_new= [-0.03277922 0.96471717 2.06806205]

gradient= [-9.95644039e-06 -7.52133486e-07 1.07085739e-05] w = [-0.03277922 0.96471717 2.06806205] w\_new= [-0.03277932 0.96471716 2.06806216]

gradient= [-9.94194730e-06 -7.51102397e-07 1.06930497e-05] w = [-0.03277932 0.96471716 2.06806216] w\_new= [-0.03277942 0.96471716 2.06806227]

gradient= [-9.92747531e-06 -7.50072710e-07 1.06775480e-05] w = [-0.03277942 0.96471716 2.06806227] w\_new= [-0.03277952 0.96471715 2.06806237]

gradient= [-9.91302439e-06 -7.49044423e-07 1.06620688e-05] w = [-0.03277952 0.96471715 2.06806237] w\_new= [-0.03277962 0.96471714 2.06806248]

gradient= [-9.89859451e-06 -7.48017536e-07 1.06466120e-05] w = [-0.03277962 0.96471714 2.06806248] w\_new= [-0.03277972 0.96471713 2.06806259]

gradient= [-9.88418563e-06 -7.46992046e-07 1.06311777e-05] w = [-0.03277972 0.96471713 2.06806259] w\_new= [-0.03277982 0.96471713 2.06806269]

gradient= [-9.86979774e-06 -7.45967950e-07 1.06157657e-05] w = [-0.03277982 0.96471713 2.06806269] w\_new= [-0.03277992 0.96471712 2.0680628 ]

gradient= [-9.85543080e-06 -7.44945248e-07 1.06003760e-05] w = [-0.03277992 0.96471712 2.0680628 ] w\_new= [-0.03278002 0.96471711 2.06806291]

gradient= [-9.84108477e-06 -7.43923937e-07 1.05850087e-05] w = [-0.03278002 0.96471711 2.06806291] w\_new= [-0.03278011 0.9647171 2.06806301]

gradient= [-9.82675963e-06 -7.42904016e-07 1.05696636e-05] w = [-0.03278011 0.9647171 2.06806301] w\_new= [-0.03278021 0.9647171 2.06806312]

gradient= [-9.81245534e-06 -7.41885482e-07 1.05543408e-05] w = [-0.03278021 0.9647171 2.06806312] w\_new= [-0.03278031 0.96471709 2.06806322]

gradient= [-9.79817188e-06 -7.40868334e-07 1.05390402e-05] w = [-0.03278031 0.96471709 2.06806322] w\_new= [-0.03278041 0.96471708 2.06806333]

gradient= [-9.78390922e-06 -7.39852570e-07 1.05237618e-05] w = [-0.03278041 0.96471708 2.06806333] w\_new= [-0.03278051 0.96471707 2.06806343]

gradient= [-9.76966732e-06 -7.38838188e-07 1.05085055e-05] w = [-0.03278051 0.96471707 2.06806343] w\_new= [-0.0327806 0.96471707 2.06806354]

gradient= [-9.75544616e-06 -7.37825186e-07 1.04932713e-05] w = [-0.0327806 0.96471707 2.06806354] w\_new= [-0.0327807 0.96471706 2.06806364]

gradient= [-9.74124570e-06 -7.36813562e-07 1.04780593e-05] w = [-0.0327807 0.96471706 2.06806364] w\_new= [-0.0327808 0.96471705 2.06806375]

gradient= [-9.72706592e-06 -7.35803314e-07 1.04628692e-05] w = [-0.0327808 0.96471705 2.06806375] w\_new= [-0.0327809 0.96471704 2.06806385]

gradient= [-9.71290678e-06 -7.34794441e-07 1.04477012e-05] w = [-0.0327809 0.96471704 2.06806385] w\_new= [-0.03278099 0.96471704 2.06806396]

gradient= [-9.69876826e-06 -7.33786941e-07 1.04325552e-05] w = [-0.03278099 0.96471704 2.06806396] w\_new= [-0.03278109 0.96471703 2.06806406]

gradient= [-9.68465032e-06 -7.32780812e-07 1.04174311e-05] w = [-0.03278109 0.96471703 2.06806406] w\_new= [-0.03278119 0.96471702 2.06806417]

gradient= [-9.67055294e-06 -7.31776051e-07 1.04023290e-05] w = [-0.03278119 0.96471702 2.06806417] w\_new= [-0.03278128 0.96471701 2.06806427]

gradient= [-9.65647608e-06 -7.30772658e-07 1.03872487e-05] w = [-0.03278128 0.96471701 2.06806427] w\_new= [-0.03278138 0.96471701 2.06806437]

gradient= [-9.64241971e-06 -7.29770630e-07 1.03721903e-05] w = [-0.03278138 0.96471701 2.06806437] w\_new= [-0.03278148 0.964717 2.06806448]

gradient= [-9.62838381e-06 -7.28769965e-07 1.03571538e-05] w = [-0.03278148 0.964717 2.06806448] w\_new= [-0.03278157 0.96471699 2.06806458]

gradient= [-9.61436835e-06 -7.27770662e-07 1.03421390e-05] w = [-0.03278157 0.96471699 2.06806458] w\_new= [-0.03278167 0.96471699 2.06806468]

gradient= [-9.60037329e-06 -7.26772719e-07 1.03271460e-05] w = [-0.03278167 0.96471699 2.06806468] w\_new= [-0.03278177 0.96471698 2.06806479]

gradient= [-9.58639861e-06 -7.25776134e-07 1.03121747e-05] w = [-0.03278177 0.96471698 2.06806479] w\_new= [-0.03278186 0.96471697 2.06806489]

gradient= [-9.57244427e-06 -7.24780905e-07 1.02972252e-05] w = [-0.03278186 0.96471697 2.06806489] w\_new= [-0.03278196 0.96471696 2.06806499]

gradient= [-9.55851025e-06 -7.23787030e-07 1.02822973e-05] w = [-0.03278196 0.96471696 2.06806499] w\_new= [-0.03278205 0.96471696 2.0680651 ]

gradient= [-9.54459652e-06 -7.22794508e-07 1.02673910e-05] w = [-0.03278205 0.96471696 2.0680651 ] w\_new= [-0.03278215 0.96471695 2.0680652 ]

gradient= [-9.53070304e-06 -7.21803336e-07 1.02525064e-05] w = [-0.03278215 0.96471695 2.0680652 ] w\_new= [-0.03278224 0.96471694 2.0680653 ]

gradient= [-9.51682979e-06 -7.20813513e-07 1.02376433e-05] w = [-0.03278224 0.96471694 2.0680653 ] w\_new= [-0.03278234 0.96471693 2.0680654 ]

gradient= [-9.50297674e-06 -7.19825038e-07 1.02228018e-05] w = [-0.03278234 0.96471693 2.0680654 ] w\_new= [-0.03278243 0.96471693 2.06806551]

gradient= [-9.48914386e-06 -7.18837907e-07 1.02079818e-05] w = [-0.03278243 0.96471693 2.06806551] w\_new= [-0.03278253 0.96471692 2.06806561]

gradient= [-9.47533112e-06 -7.17852120e-07 1.01931832e-05] w = [-0.03278253 0.96471692 2.06806561] w\_new= [-0.03278262 0.96471691 2.06806571]

gradient= [-9.46153848e-06 -7.16867674e-07 1.01784062e-05] w = [-0.03278262 0.96471691 2.06806571] w\_new= [-0.03278272 0.96471691 2.06806581]

gradient= [-9.44776593e-06 -7.15884568e-07 1.01636505e-05] w = [-0.03278272 0.96471691 2.06806581] w\_new= [-0.03278281 0.9647169 2.06806591]

gradient= [-9.43401343e-06 -7.14902800e-07 1.01489162e-05] w = [-0.03278281 0.9647169 2.06806591] w\_new= [-0.03278291 0.96471689 2.06806602]

gradient= [-9.42028096e-06 -7.13922368e-07 1.01342033e-05] w = [-0.03278291 0.96471689 2.06806602] w\_new= [-0.032783 0.96471688 2.06806612]

gradient= [-9.40656847e-06 -7.12943271e-07 1.01195117e-05] w = [-0.032783 0.96471688 2.06806612] w\_new= [-0.0327831 0.96471688 2.06806622]

gradient= [-9.39287595e-06 -7.11965506e-07 1.01048415e-05] w = [-0.0327831 0.96471688 2.06806622] w\_new= [-0.03278319 0.96471687 2.06806632]

gradient= [-9.37920337e-06 -7.10989071e-07 1.00901924e-05] w = [-0.03278319 0.96471687 2.06806632] w\_new= [-0.03278328 0.96471686 2.06806642]

gradient= [-9.36555069e-06 -7.10013966e-07 1.00755647e-05] w = [-0.03278328 0.96471686 2.06806642] w\_new= [-0.03278338 0.96471686 2.06806652]

gradient= [-9.35191789e-06 -7.09040188e-07 1.00609581e-05] w = [-0.03278338 0.96471686 2.06806652] w\_new= [-0.03278347 0.96471685 2.06806662]

gradient= [-9.33830494e-06 -7.08067735e-07 1.00463727e-05] w = [-0.03278347 0.96471685 2.06806662] w\_new= [-0.03278356 0.96471684 2.06806672]

gradient= [-9.32471180e-06 -7.07096606e-07 1.00318084e-05] w = [-0.03278356 0.96471684 2.06806672] w\_new= [-0.03278366 0.96471683 2.06806682]

gradient= [-9.31113846e-06 -7.06126799e-07 1.00172653e-05] w = [-0.03278366 0.96471683 2.06806682] w\_new= [-0.03278375 0.96471683 2.06806692]

gradient= [-9.29758488e-06 -7.05158311e-07 1.00027432e-05] w = [-0.03278375 0.96471683 2.06806692] w\_new= [-0.03278384 0.96471682 2.06806702]

gradient= [-9.28405103e-06 -7.04191142e-07 9.98824217e-06] w = [-0.03278384 0.96471682 2.06806702] w\_new= [-0.03278394 0.96471681 2.06806712]

Initial sample = [[3, 2, 3]]

100%|██████████| 101000/101000 [00:08<00:00, 11750.64it/s]

**Streaming output truncated to the last 5000 lines.**

gradient= [-1.71699333e-02 -4.18755240e-05 1.72118088e-02] w = [0.11362028 0.99801214 1.88836759] w\_new= [0.11344858 0.99801172 1.8885397 ]

gradient= [-1.71434388e-02 -4.18174140e-05 1.71852563e-02] w = [0.11344858 0.99801172 1.8885397 ] w\_new= [0.11327714 0.9980113 1.88871156]

gradient= [-1.71169866e-02 -4.17593908e-05 1.71587460e-02] w = [0.11327714 0.9980113 1.88871156] w\_new= [0.11310597 0.99801088 1.88888314]

gradient= [-1.70905766e-02 -4.17014542e-05 1.71322781e-02] w = [0.11310597 0.99801088 1.88888314] w\_new= [0.11293507 0.99801047 1.88905447]

gradient= [-1.70642087e-02 -4.16436041e-05 1.71058523e-02] w = [0.11293507 0.99801047 1.88905447] w\_new= [0.11276442 0.99801005 1.88922553]

gradient= [-1.70378829e-02 -4.15858404e-05 1.70794687e-02] w = [0.11276442 0.99801005 1.88922553] w\_new= [0.11259405 0.99800963 1.88939632]

gradient= [-1.70115990e-02 -4.15281629e-05 1.70531271e-02] w = [0.11259405 0.99800963 1.88939632] w\_new= [0.11242393 0.99800922 1.88956685]

gradient= [-1.69853570e-02 -4.14705714e-05 1.70268275e-02] w = [0.11242393 0.99800922 1.88956685] w\_new= [0.11225408 0.9980088 1.88973712]

gradient= [-1.69591568e-02 -4.14130658e-05 1.70005699e-02] w = [0.11225408 0.9980088 1.88973712] w\_new= [0.11208448 0.99800839 1.88990712]

gradient= [-1.69329984e-02 -4.13556459e-05 1.69743541e-02] w = [0.11208448 0.99800839 1.88990712] w\_new= [0.11191515 0.99800798 1.89007687]

gradient= [-1.69068817e-02 -4.12983117e-05 1.69481800e-02] w = [0.11191515 0.99800798 1.89007687] w\_new= [0.11174609 0.99800756 1.89024635]

gradient= [-1.68808066e-02 -4.12410629e-05 1.69220477e-02] w = [0.11174609 0.99800756 1.89024635] w\_new= [0.11157728 0.99800715 1.89041557]

gradient= [-1.68547731e-02 -4.11838995e-05 1.68959570e-02] w = [0.11157728 0.99800715 1.89041557] w\_new= [0.11140873 0.99800674 1.89058453]

gradient= [-1.68287810e-02 -4.11268212e-05 1.68699078e-02] w = [0.11140873 0.99800674 1.89058453] w\_new= [0.11124044 0.99800633 1.89075323]

gradient= [-1.68028303e-02 -4.10698280e-05 1.68439002e-02] w = [0.11124044 0.99800633 1.89075323] w\_new= [0.11107241 0.99800592 1.89092167]

gradient= [-1.67769210e-02 -4.10129196e-05 1.68179339e-02] w = [0.11107241 0.99800592 1.89092167] w\_new= [0.11090464 0.99800551 1.89108985]

gradient= [-1.67510530e-02 -4.09560960e-05 1.67920091e-02] w = [0.11090464 0.99800551 1.89108985] w\_new= [0.11073713 0.9980051 1.89125777]

gradient= [-1.67252261e-02 -4.08993569e-05 1.67661255e-02] w = [0.11073713 0.9980051 1.89125777] w\_new= [0.11056988 0.99800469 1.89142543]

gradient= [-1.66994404e-02 -4.08427023e-05 1.67402831e-02] w = [0.11056988 0.99800469 1.89142543] w\_new= [0.11040289 0.99800428 1.89159283]

gradient= [-1.66736958e-02 -4.07861321e-05 1.67144819e-02] w = [0.11040289 0.99800428 1.89159283] w\_new= [0.11023615 0.99800387 1.89175998]

gradient= [-1.66479921e-02 -4.07296459e-05 1.66887217e-02] w = [0.11023615 0.99800387 1.89175998] w\_new= [0.11006967 0.99800347 1.89192686]

gradient= [-1.66223294e-02 -4.06732438e-05 1.66630026e-02] w = [0.11006967 0.99800347 1.89192686] w\_new= [0.10990345 0.99800306 1.89209349]

gradient= [-1.65967075e-02 -4.06169256e-05 1.66373244e-02] w = [0.10990345 0.99800306 1.89209349] w\_new= [0.10973748 0.99800265 1.89225987]

gradient= [-1.65711264e-02 -4.05606911e-05 1.66116871e-02] w = [0.10973748 0.99800265 1.89225987] w\_new= [0.10957177 0.99800225 1.89242598]

gradient= [-1.65455861e-02 -4.05045402e-05 1.65860906e-02] w = [0.10957177 0.99800225 1.89242598] w\_new= [0.10940631 0.99800184 1.89259185]

gradient= [-1.65200863e-02 -4.04484728e-05 1.65605348e-02] w = [0.10940631 0.99800184 1.89259185] w\_new= [0.10924111 0.99800144 1.89275745]

gradient= [-1.64946272e-02 -4.03924887e-05 1.65350197e-02] w = [0.10924111 0.99800144 1.89275745] w\_new= [0.10907617 0.99800103 1.8929228 ]

gradient= [-1.64692086e-02 -4.03365877e-05 1.65095452e-02] w = [0.10907617 0.99800103 1.8929228 ] w\_new= [0.10891147 0.99800063 1.8930879 ]

gradient= [-1.64438304e-02 -4.02807698e-05 1.64841112e-02] w = [0.10891147 0.99800063 1.8930879 ] w\_new= [0.10874704 0.99800023 1.89325274]

gradient= [-1.64184927e-02 -4.02250347e-05 1.64587177e-02] w = [0.10874704 0.99800023 1.89325274] w\_new= [0.10858285 0.99799982 1.89341732]

gradient= [-1.63931952e-02 -4.01693824e-05 1.64333646e-02] w = [0.10858285 0.99799982 1.89341732] w\_new= [0.10841892 0.99799942 1.89358166]

gradient= [-1.63679380e-02 -4.01138127e-05 1.64080518e-02] w = [0.10841892 0.99799942 1.89358166] w\_new= [0.10825524 0.99799902 1.89374574]

gradient= [-1.63427209e-02 -4.00583255e-05 1.63827792e-02] w = [0.10825524 0.99799902 1.89374574] w\_new= [0.10809181 0.99799862 1.89390957]

gradient= [-1.63175440e-02 -4.00029206e-05 1.63575469e-02] w = [0.10809181 0.99799862 1.89390957] w\_new= [0.10792864 0.99799822 1.89407314]

gradient= [-1.62924071e-02 -3.99475979e-05 1.63323547e-02] w = [0.10792864 0.99799822 1.89407314] w\_new= [0.10776571 0.99799782 1.89423647]

gradient= [-1.62673102e-02 -3.98923572e-05 1.63072025e-02] w = [0.10776571 0.99799782 1.89423647] w\_new= [0.10760304 0.99799742 1.89439954]

gradient= [-1.62422532e-02 -3.98371985e-05 1.62820904e-02] w = [0.10760304 0.99799742 1.89439954] w\_new= [0.10744062 0.99799702 1.89456236]

gradient= [-1.62172360e-02 -3.97821215e-05 1.62570181e-02] w = [0.10744062 0.99799702 1.89456236] w\_new= [0.10727844 0.99799663 1.89472493]

gradient= [-1.61922586e-02 -3.97271261e-05 1.62319857e-02] w = [0.10727844 0.99799663 1.89472493] w\_new= [0.10711652 0.99799623 1.89488725]

gradient= [-1.61673209e-02 -3.96722123e-05 1.62069931e-02] w = [0.10711652 0.99799623 1.89488725] w\_new= [0.10695485 0.99799583 1.89504932]

gradient= [-1.61424229e-02 -3.96173798e-05 1.61820403e-02] w = [0.10695485 0.99799583 1.89504932] w\_new= [0.10679342 0.99799544 1.89521114]

gradient= [-1.61175644e-02 -3.95626285e-05 1.61571271e-02] w = [0.10679342 0.99799544 1.89521114] w\_new= [0.10663225 0.99799504 1.89537271]

gradient= [-1.60927455e-02 -3.95079583e-05 1.61322534e-02] w = [0.10663225 0.99799504 1.89537271] w\_new= [0.10647132 0.99799465 1.89553403]

gradient= [-1.60679660e-02 -3.94533690e-05 1.61074193e-02] w = [0.10647132 0.99799465 1.89553403] w\_new= [0.10631064 0.99799425 1.89569511]

gradient= [-1.60432258e-02 -3.93988606e-05 1.60826247e-02] w = [0.10631064 0.99799425 1.89569511] w\_new= [0.10615021 0.99799386 1.89585593]

gradient= [-1.60185250e-02 -3.93444328e-05 1.60578695e-02] w = [0.10615021 0.99799386 1.89585593] w\_new= [0.10599002 0.99799346 1.89601651]

gradient= [-1.59938634e-02 -3.92900856e-05 1.60331535e-02] w = [0.10599002 0.99799346 1.89601651] w\_new= [0.10583009 0.99799307 1.89617684]

gradient= [-1.59692411e-02 -3.92358188e-05 1.60084769e-02] w = [0.10583009 0.99799307 1.89617684] w\_new= [0.10567039 0.99799268 1.89633693]

gradient= [-1.59446578e-02 -3.91816322e-05 1.59838394e-02] w = [0.10567039 0.99799268 1.89633693] w\_new= [0.10551095 0.99799229 1.89649677]

gradient= [-1.59201136e-02 -3.91275258e-05 1.59592411e-02] w = [0.10551095 0.99799229 1.89649677] w\_new= [0.10535175 0.9979919 1.89665636]

gradient= [-1.58956083e-02 -3.90734994e-05 1.59346818e-02] w = [0.10535175 0.9979919 1.89665636] w\_new= [0.10519279 0.9979915 1.89681571]

gradient= [-1.58711420e-02 -3.90195528e-05 1.59101616e-02] w = [0.10519279 0.9979915 1.89681571] w\_new= [0.10503408 0.99799111 1.89697481]

gradient= [-1.58467145e-02 -3.89656859e-05 1.58856802e-02] w = [0.10503408 0.99799111 1.89697481] w\_new= [0.10487561 0.99799073 1.89713366]

gradient= [-1.58223259e-02 -3.89118987e-05 1.58612378e-02] w = [0.10487561 0.99799073 1.89713366] w\_new= [0.10471739 0.99799034 1.89729228]

gradient= [-1.57979759e-02 -3.88581909e-05 1.58368341e-02] w = [0.10471739 0.99799034 1.89729228] w\_new= [0.10455941 0.99798995 1.89745064]

gradient= [-1.57736646e-02 -3.88045624e-05 1.58124692e-02] w = [0.10455941 0.99798995 1.89745064] w\_new= [0.10440167 0.99798956 1.89760877]

gradient= [-1.57493919e-02 -3.87510132e-05 1.57881429e-02] w = [0.10440167 0.99798956 1.89760877] w\_new= [0.10424418 0.99798917 1.89776665]

gradient= [-1.57251578e-02 -3.86975430e-05 1.57638553e-02] w = [0.10424418 0.99798917 1.89776665] w\_new= [0.10408693 0.99798878 1.89792429]

gradient= [-1.57009621e-02 -3.86441517e-05 1.57396062e-02] w = [0.10408693 0.99798878 1.89792429] w\_new= [0.10392992 0.9979884 1.89808169]

gradient= [-1.56768048e-02 -3.85908392e-05 1.57153956e-02] w = [0.10392992 0.9979884 1.89808169] w\_new= [0.10377315 0.99798801 1.89823884]

gradient= [-1.56526858e-02 -3.85376054e-05 1.56912234e-02] w = [0.10377315 0.99798801 1.89823884] w\_new= [0.10361662 0.99798763 1.89839575]

gradient= [-1.56286051e-02 -3.84844501e-05 1.56670896e-02] w = [0.10361662 0.99798763 1.89839575] w\_new= [0.10346034 0.99798724 1.89855242]

gradient= [-1.56045627e-02 -3.84313732e-05 1.56429940e-02] w = [0.10346034 0.99798724 1.89855242] w\_new= [0.10330429 0.99798686 1.89870885]

gradient= [-1.55805583e-02 -3.83783745e-05 1.56189367e-02] w = [0.10330429 0.99798686 1.89870885] w\_new= [0.10314848 0.99798647 1.89886504]

gradient= [-1.55565921e-02 -3.83254540e-05 1.55949175e-02] w = [0.10314848 0.99798647 1.89886504] w\_new= [0.10299292 0.99798609 1.89902099]

gradient= [-1.55326639e-02 -3.82726115e-05 1.55709365e-02] w = [0.10299292 0.99798609 1.89902099] w\_new= [0.10283759 0.99798571 1.8991767 ]

gradient= [-1.55087736e-02 -3.82198469e-05 1.55469934e-02] w = [0.10283759 0.99798571 1.8991767 ] w\_new= [0.1026825 0.99798533 1.89933217]

gradient= [-1.54849212e-02 -3.81671600e-05 1.55230884e-02] w = [0.1026825 0.99798533 1.89933217] w\_new= [0.10252765 0.99798494 1.8994874 ]

gradient= [-1.54611067e-02 -3.81145508e-05 1.54992212e-02] w = [0.10252765 0.99798494 1.8994874 ] w\_new= [0.10237304 0.99798456 1.89964239]

gradient= [-1.54373299e-02 -3.80620190e-05 1.54753919e-02] w = [0.10237304 0.99798456 1.89964239] w\_new= [0.10221867 0.99798418 1.89979715]

gradient= [-1.54135908e-02 -3.80095646e-05 1.54516004e-02] w = [0.10221867 0.99798418 1.89979715] w\_new= [0.10206453 0.9979838 1.89995166]

gradient= [-1.53898894e-02 -3.79571874e-05 1.54278466e-02] w = [0.10206453 0.9979838 1.89995166] w\_new= [0.10191064 0.99798342 1.90010594]

gradient= [-1.53662255e-02 -3.79048873e-05 1.54041304e-02] w = [0.10191064 0.99798342 1.90010594] w\_new= [0.10175697 0.99798304 1.90025998]

gradient= [-1.53425992e-02 -3.78526641e-05 1.53804519e-02] w = [0.10175697 0.99798304 1.90025998] w\_new= [0.10160355 0.99798267 1.90041379]

gradient= [-1.53190103e-02 -3.78005178e-05 1.53568108e-02] w = [0.10160355 0.99798267 1.90041379] w\_new= [0.10145036 0.99798229 1.90056736]

gradient= [-1.52954588e-02 -3.77484482e-05 1.53332073e-02] w = [0.10145036 0.99798229 1.90056736] w\_new= [0.1012974 0.99798191 1.90072069]

gradient= [-1.52719447e-02 -3.76964552e-05 1.53096411e-02] w = [0.1012974 0.99798191 1.90072069] w\_new= [0.10114468 0.99798153 1.90087378]

gradient= [-1.52484678e-02 -3.76445387e-05 1.52861123e-02] w = [0.10114468 0.99798153 1.90087378] w\_new= [0.1009922 0.99798116 1.90102665]

gradient= [-1.52250281e-02 -3.75926984e-05 1.52626208e-02] w = [0.1009922 0.99798116 1.90102665] w\_new= [0.10083995 0.99798078 1.90117927]

gradient= [-1.52016255e-02 -3.75409344e-05 1.52391664e-02] w = [0.10083995 0.99798078 1.90117927] w\_new= [0.10068793 0.99798041 1.90133166]

gradient= [-1.51782600e-02 -3.74892464e-05 1.52157493e-02] w = [0.10068793 0.99798041 1.90133166] w\_new= [0.10053615 0.99798003 1.90148382]

gradient= [-1.51549316e-02 -3.74376344e-05 1.51923692e-02] w = [0.10053615 0.99798003 1.90148382] w\_new= [0.1003846 0.99797966 1.90163574]

gradient= [-1.51316401e-02 -3.73860982e-05 1.51690262e-02] w = [0.1003846 0.99797966 1.90163574] w\_new= [0.10023328 0.99797928 1.90178743]

gradient= [-1.51083855e-02 -3.73346377e-05 1.51457201e-02] w = [0.10023328 0.99797928 1.90178743] w\_new= [0.1000822 0.99797891 1.90193889]

gradient= [-1.50851677e-02 -3.72832527e-05 1.51224510e-02] w = [0.1000822 0.99797891 1.90193889] w\_new= [0.09993135 0.99797854 1.90209012]

gradient= [-1.50619867e-02 -3.72319432e-05 1.50992187e-02] w = [0.09993135 0.99797854 1.90209012] w\_new= [0.09978073 0.99797816 1.90224111]

gradient= [-1.50388424e-02 -3.71807090e-05 1.50760231e-02] w = [0.09978073 0.99797816 1.90224111] w\_new= [0.09963034 0.99797779 1.90239187]

gradient= [-1.50157348e-02 -3.71295500e-05 1.50528643e-02] w = [0.09963034 0.99797779 1.90239187] w\_new= [0.09948018 0.99797742 1.9025424 ]

gradient= [-1.49926638e-02 -3.70784661e-05 1.50297422e-02] w = [0.09948018 0.99797742 1.9025424 ] w\_new= [0.09933026 0.99797705 1.90269269]

gradient= [-1.49696292e-02 -3.70274571e-05 1.50066567e-02] w = [0.09933026 0.99797705 1.90269269] w\_new= [0.09918056 0.99797668 1.90284276]

gradient= [-1.49466312e-02 -3.69765229e-05 1.49836077e-02] w = [0.09918056 0.99797668 1.90284276] w\_new= [0.09903109 0.99797631 1.9029926 ]

gradient= [-1.49236695e-02 -3.69256634e-05 1.49605952e-02] w = [0.09903109 0.99797631 1.9029926 ] w\_new= [0.09888186 0.99797594 1.9031422 ]

gradient= [-1.49007442e-02 -3.68748785e-05 1.49376191e-02] w = [0.09888186 0.99797594 1.9031422 ] w\_new= [0.09873285 0.99797557 1.90329158]

gradient= [-1.48778552e-02 -3.68241680e-05 1.49146794e-02] w = [0.09873285 0.99797557 1.90329158] w\_new= [0.09858407 0.9979752 1.90344073]

gradient= [-1.48550024e-02 -3.67735318e-05 1.48917760e-02] w = [0.09858407 0.9979752 1.90344073] w\_new= [0.09843552 0.99797484 1.90358964]

gradient= [-1.48321858e-02 -3.67229698e-05 1.48689088e-02] w = [0.09843552 0.99797484 1.90358964] w\_new= [0.0982872 0.99797447 1.90373833]

gradient= [-1.48094053e-02 -3.66724819e-05 1.48460778e-02] w = [0.0982872 0.99797447 1.90373833] w\_new= [0.0981391 0.9979741 1.90388679]

gradient= [-1.47866608e-02 -3.66220679e-05 1.48232829e-02] w = [0.0981391 0.9979741 1.90388679] w\_new= [0.09799124 0.99797374 1.90403503]

gradient= [-1.47639524e-02 -3.65717278e-05 1.48005241e-02] w = [0.09799124 0.99797374 1.90403503] w\_new= [0.0978436 0.99797337 1.90418303]

gradient= [-1.47412798e-02 -3.65214613e-05 1.47778013e-02] w = [0.0978436 0.99797337 1.90418303] w\_new= [0.09769619 0.997973 1.90433081]

gradient= [-1.47186431e-02 -3.64712685e-05 1.47551144e-02] w = [0.09769619 0.997973 1.90433081] w\_new= [0.097549 0.99797264 1.90447836]

gradient= [-1.46960422e-02 -3.64211491e-05 1.47324634e-02] w = [0.097549 0.99797264 1.90447836] w\_new= [0.09740204 0.99797228 1.90462569]

gradient= [-1.46734771e-02 -3.63711030e-05 1.47098482e-02] w = [0.09740204 0.99797228 1.90462569] w\_new= [0.0972553 0.99797191 1.90477278]

gradient= [-1.46509476e-02 -3.63211302e-05 1.46872688e-02] w = [0.0972553 0.99797191 1.90477278] w\_new= [0.09710879 0.99797155 1.90491966]

gradient= [-1.46284538e-02 -3.62712304e-05 1.46647251e-02] w = [0.09710879 0.99797155 1.90491966] w\_new= [0.09696251 0.99797119 1.9050663 ]

gradient= [-1.46059956e-02 -3.62214036e-05 1.46422170e-02] w = [0.09696251 0.99797119 1.9050663 ] w\_new= [0.09681645 0.99797082 1.90521273]

gradient= [-1.45835728e-02 -3.61716497e-05 1.46197445e-02] w = [0.09681645 0.99797082 1.90521273] w\_new= [0.09667061 0.99797046 1.90535892]

gradient= [-1.45611855e-02 -3.61219685e-05 1.45973075e-02] w = [0.09667061 0.99797046 1.90535892] w\_new= [0.096525 0.9979701 1.9055049]

gradient= [-1.45388336e-02 -3.60723599e-05 1.45749060e-02] w = [0.096525 0.9979701 1.9055049] w\_new= [0.09637961 0.99796974 1.90565065]

gradient= [-1.45165171e-02 -3.60228238e-05 1.45525399e-02] w = [0.09637961 0.99796974 1.90565065] w\_new= [0.09623445 0.99796938 1.90579617]

gradient= [-1.44942358e-02 -3.59733601e-05 1.45302092e-02] w = [0.09623445 0.99796938 1.90579617] w\_new= [0.09608951 0.99796902 1.90594147]

gradient= [-1.44719897e-02 -3.59239686e-05 1.45079137e-02] w = [0.09608951 0.99796902 1.90594147] w\_new= [0.09594479 0.99796866 1.90608655]

gradient= [-1.44497788e-02 -3.58746493e-05 1.44856535e-02] w = [0.09594479 0.99796866 1.90608655] w\_new= [0.09580029 0.9979683 1.90623141]

gradient= [-1.44276030e-02 -3.58254019e-05 1.44634284e-02] w = [0.09580029 0.9979683 1.90623141] w\_new= [0.09565601 0.99796794 1.90637604]

gradient= [-1.44054622e-02 -3.57762265e-05 1.44412384e-02] w = [0.09565601 0.99796794 1.90637604] w\_new= [0.09551196 0.99796759 1.90652046]

gradient= [-1.43833564e-02 -3.57271228e-05 1.44190835e-02] w = [0.09551196 0.99796759 1.90652046] w\_new= [0.09536812 0.99796723 1.90666465]

gradient= [-1.43612856e-02 -3.56780908e-05 1.43969636e-02] w = [0.09536812 0.99796723 1.90666465] w\_new= [0.09522451 0.99796687 1.90680862]

gradient= [-1.43392496e-02 -3.56291304e-05 1.43748787e-02] w = [0.09522451 0.99796687 1.90680862] w\_new= [0.09508112 0.99796652 1.90695237]

gradient= [-1.43172484e-02 -3.55802413e-05 1.43528286e-02] w = [0.09508112 0.99796652 1.90695237] w\_new= [0.09493795 0.99796616 1.90709589]

gradient= [-1.42952819e-02 -3.55314236e-05 1.43308134e-02] w = [0.09493795 0.99796616 1.90709589] w\_new= [0.09479499 0.9979658 1.9072392 ]

gradient= [-1.42733502e-02 -3.54826770e-05 1.43088329e-02] w = [0.09479499 0.9979658 1.9072392 ] w\_new= [0.09465226 0.99796545 1.90738229]

gradient= [-1.42514531e-02 -3.54340015e-05 1.42868871e-02] w = [0.09465226 0.99796545 1.90738229] w\_new= [0.09450975 0.9979651 1.90752516]

gradient= [-1.42295906e-02 -3.53853970e-05 1.42649760e-02] w = [0.09450975 0.9979651 1.90752516] w\_new= [0.09436745 0.99796474 1.90766781]

gradient= [-1.42077626e-02 -3.53368633e-05 1.42430994e-02] w = [0.09436745 0.99796474 1.90766781] w\_new= [0.09422537 0.99796439 1.90781024]

gradient= [-1.41859690e-02 -3.52884003e-05 1.42212574e-02] w = [0.09422537 0.99796439 1.90781024] w\_new= [0.09408351 0.99796404 1.90795245]

gradient= [-1.41642099e-02 -3.52400079e-05 1.41994499e-02] w = [0.09408351 0.99796404 1.90795245] w\_new= [0.09394187 0.99796368 1.90809445]

gradient= [-1.41424851e-02 -3.51916860e-05 1.41776768e-02] w = [0.09394187 0.99796368 1.90809445] w\_new= [0.09380045 0.99796333 1.90823622]

gradient= [-1.41207946e-02 -3.51434345e-05 1.41559381e-02] w = [0.09380045 0.99796333 1.90823622] w\_new= [0.09365924 0.99796298 1.90837778]

gradient= [-1.40991384e-02 -3.50952532e-05 1.41342336e-02] w = [0.09365924 0.99796298 1.90837778] w\_new= [0.09351825 0.99796263 1.90851912]

gradient= [-1.40775163e-02 -3.50471421e-05 1.41125635e-02] w = [0.09351825 0.99796263 1.90851912] w\_new= [0.09337747 0.99796228 1.90866025]

gradient= [-1.40559284e-02 -3.49991009e-05 1.40909275e-02] w = [0.09337747 0.99796228 1.90866025] w\_new= [0.09323691 0.99796193 1.90880116]

gradient= [-1.40343745e-02 -3.49511297e-05 1.40693256e-02] w = [0.09323691 0.99796193 1.90880116] w\_new= [0.09309657 0.99796158 1.90894185]

gradient= [-1.40128546e-02 -3.49032283e-05 1.40477579e-02] w = [0.09309657 0.99796158 1.90894185] w\_new= [0.09295644 0.99796123 1.90908233]

gradient= [-1.39913687e-02 -3.48553966e-05 1.40262241e-02] w = [0.09295644 0.99796123 1.90908233] w\_new= [0.09281653 0.99796088 1.90922259]

gradient= [-1.39699167e-02 -3.48076344e-05 1.40047244e-02] w = [0.09281653 0.99796088 1.90922259] w\_new= [0.09267683 0.99796053 1.90936264]

gradient= [-1.39484986e-02 -3.47599417e-05 1.39832585e-02] w = [0.09267683 0.99796053 1.90936264] w\_new= [0.09253734 0.99796019 1.90950247]

gradient= [-1.39271142e-02 -3.47123183e-05 1.39618265e-02] w = [0.09253734 0.99796019 1.90950247] w\_new= [0.09239807 0.99795984 1.90964209]

gradient= [-1.39057635e-02 -3.46647641e-05 1.39404283e-02] w = [0.09239807 0.99795984 1.90964209] w\_new= [0.09225901 0.99795949 1.9097815 ]

gradient= [-1.38844465e-02 -3.46172790e-05 1.39190638e-02] w = [0.09225901 0.99795949 1.9097815 ] w\_new= [0.09212017 0.99795915 1.90992069]

gradient= [-1.38631632e-02 -3.45698630e-05 1.38977331e-02] w = [0.09212017 0.99795915 1.90992069] w\_new= [0.09198154 0.9979588 1.91005966]

gradient= [-1.38419134e-02 -3.45225158e-05 1.38764359e-02] w = [0.09198154 0.9979588 1.91005966] w\_new= [0.09184312 0.99795845 1.91019843]

gradient= [-1.38206971e-02 -3.44752374e-05 1.38551724e-02] w = [0.09184312 0.99795845 1.91019843] w\_new= [0.09170491 0.99795811 1.91033698]

gradient= [-1.37995143e-02 -3.44280276e-05 1.38339423e-02] w = [0.09170491 0.99795811 1.91033698] w\_new= [0.09156692 0.99795777 1.91047532]

gradient= [-1.37783649e-02 -3.43808864e-05 1.38127457e-02] w = [0.09156692 0.99795777 1.91047532] w\_new= [0.09142913 0.99795742 1.91061345]

gradient= [-1.37572488e-02 -3.43338136e-05 1.37915826e-02] w = [0.09142913 0.99795742 1.91061345] w\_new= [0.09129156 0.99795708 1.91075136]

gradient= [-1.37361660e-02 -3.42868091e-05 1.37704528e-02] w = [0.09129156 0.99795708 1.91075136] w\_new= [0.0911542 0.99795674 1.91088907]

gradient= [-1.37151164e-02 -3.42398729e-05 1.37493563e-02] w = [0.0911542 0.99795674 1.91088907] w\_new= [0.09101705 0.99795639 1.91102656]

gradient= [-1.36941000e-02 -3.41930047e-05 1.37282930e-02] w = [0.09101705 0.99795639 1.91102656] w\_new= [0.09088011 0.99795605 1.91116384]

gradient= [-1.36731167e-02 -3.41462045e-05 1.37072629e-02] w = [0.09088011 0.99795605 1.91116384] w\_new= [0.09074337 0.99795571 1.91130092]

gradient= [-1.36521665e-02 -3.40994722e-05 1.36862660e-02] w = [0.09074337 0.99795571 1.91130092] w\_new= [0.09060685 0.99795537 1.91143778]

gradient= [-1.36312493e-02 -3.40528077e-05 1.36653021e-02] w = [0.09060685 0.99795537 1.91143778] w\_new= [0.09047054 0.99795503 1.91157443]

gradient= [-1.36103651e-02 -3.40062108e-05 1.36443713e-02] w = [0.09047054 0.99795503 1.91157443] w\_new= [0.09033444 0.99795469 1.91171088]

gradient= [-1.35895138e-02 -3.39596815e-05 1.36234734e-02] w = [0.09033444 0.99795469 1.91171088] w\_new= [0.09019854 0.99795435 1.91184711]

gradient= [-1.35686953e-02 -3.39132196e-05 1.36026085e-02] w = [0.09019854 0.99795435 1.91184711] w\_new= [0.09006285 0.99795401 1.91198314]

gradient= [-1.35479096e-02 -3.38668250e-05 1.35817764e-02] w = [0.09006285 0.99795401 1.91198314] w\_new= [0.08992738 0.99795367 1.91211895]

gradient= [-1.35271567e-02 -3.38204976e-05 1.35609772e-02] w = [0.08992738 0.99795367 1.91211895] w\_new= [0.0897921 0.99795333 1.91225456]

gradient= [-1.35064364e-02 -3.37742373e-05 1.35402106e-02] w = [0.0897921 0.99795333 1.91225456] w\_new= [0.08965704 0.99795299 1.91238997]

gradient= [-1.34857488e-02 -3.37280440e-05 1.35194768e-02] w = [0.08965704 0.99795299 1.91238997] w\_new= [0.08952218 0.99795266 1.91252516]

gradient= [-1.34650937e-02 -3.36819176e-05 1.34987757e-02] w = [0.08952218 0.99795266 1.91252516] w\_new= [0.08938753 0.99795232 1.91266015]

gradient= [-1.34444712e-02 -3.36358580e-05 1.34781071e-02] w = [0.08938753 0.99795232 1.91266015] w\_new= [0.08925309 0.99795198 1.91279493]

gradient= [-1.34238812e-02 -3.35898651e-05 1.34574711e-02] w = [0.08925309 0.99795198 1.91279493] w\_new= [0.08911885 0.99795165 1.9129295 ]

gradient= [-1.34033236e-02 -3.35439387e-05 1.34368675e-02] w = [0.08911885 0.99795165 1.9129295 ] w\_new= [0.08898481 0.99795131 1.91306387]

gradient= [-1.33827983e-02 -3.34980787e-05 1.34162964e-02] w = [0.08898481 0.99795131 1.91306387] w\_new= [0.08885099 0.99795098 1.91319804]

gradient= [-1.33623054e-02 -3.34522851e-05 1.33957576e-02] w = [0.08885099 0.99795098 1.91319804] w\_new= [0.08871736 0.99795064 1.91333199]

gradient= [-1.33418447e-02 -3.34065577e-05 1.33752512e-02] w = [0.08871736 0.99795064 1.91333199] w\_new= [0.08858394 0.99795031 1.91346575]

gradient= [-1.33214162e-02 -3.33608965e-05 1.33547771e-02] w = [0.08858394 0.99795031 1.91346575] w\_new= [0.08845073 0.99794998 1.91359929]

gradient= [-1.33010199e-02 -3.33153012e-05 1.33343352e-02] w = [0.08845073 0.99794998 1.91359929] w\_new= [0.08831772 0.99794964 1.91373264]

gradient= [-1.32806556e-02 -3.32697719e-05 1.33139254e-02] w = [0.08831772 0.99794964 1.91373264] w\_new= [0.08818491 0.99794931 1.91386578]

gradient= [-1.32603234e-02 -3.32243084e-05 1.32935478e-02] w = [0.08818491 0.99794931 1.91386578] w\_new= [0.08805231 0.99794898 1.91399871]

gradient= [-1.32400233e-02 -3.31789106e-05 1.32732022e-02] w = [0.08805231 0.99794898 1.91399871] w\_new= [0.08791991 0.99794865 1.91413144]

gradient= [-1.32197550e-02 -3.31335784e-05 1.32528886e-02] w = [0.08791991 0.99794865 1.91413144] w\_new= [0.08778771 0.99794831 1.91426397]

gradient= [-1.31995186e-02 -3.30883116e-05 1.32326070e-02] w = [0.08778771 0.99794831 1.91426397] w\_new= [0.08765572 0.99794798 1.9143963 ]

gradient= [-1.31793141e-02 -3.30431102e-05 1.32123572e-02] w = [0.08765572 0.99794798 1.9143963 ] w\_new= [0.08752392 0.99794765 1.91452842]

gradient= [-1.31591414e-02 -3.29979741e-05 1.31921394e-02] w = [0.08752392 0.99794765 1.91452842] w\_new= [0.08739233 0.99794732 1.91466034]

gradient= [-1.31390004e-02 -3.29529032e-05 1.31719533e-02] w = [0.08739233 0.99794732 1.91466034] w\_new= [0.08726094 0.99794699 1.91479206]

gradient= [-1.31188910e-02 -3.29078973e-05 1.31517989e-02] w = [0.08726094 0.99794699 1.91479206] w\_new= [0.08712975 0.99794666 1.91492358]

gradient= [-1.30988133e-02 -3.28629564e-05 1.31316763e-02] w = [0.08712975 0.99794666 1.91492358] w\_new= [0.08699877 0.99794634 1.9150549 ]

gradient= [-1.30787672e-02 -3.28180803e-05 1.31115853e-02] w = [0.08699877 0.99794634 1.9150549 ] w\_new= [0.08686798 0.99794601 1.91518601]

gradient= [-1.30587526e-02 -3.27732690e-05 1.30915259e-02] w = [0.08686798 0.99794601 1.91518601] w\_new= [0.08673739 0.99794568 1.91531693]

gradient= [-1.30387695e-02 -3.27285223e-05 1.30714980e-02] w = [0.08673739 0.99794568 1.91531693] w\_new= [0.086607 0.99794535 1.91544764]

gradient= [-1.30188177e-02 -3.26838401e-05 1.30515016e-02] w = [0.086607 0.99794535 1.91544764] w\_new= [0.08647682 0.99794503 1.91557816]

gradient= [-1.29988974e-02 -3.26392224e-05 1.30315366e-02] w = [0.08647682 0.99794503 1.91557816] w\_new= [0.08634683 0.9979447 1.91570847]

gradient= [-1.29790084e-02 -3.25946690e-05 1.30116030e-02] w = [0.08634683 0.9979447 1.91570847] w\_new= [0.08621704 0.99794437 1.91583859]

gradient= [-1.29591506e-02 -3.25501798e-05 1.29917008e-02] w = [0.08621704 0.99794437 1.91583859] w\_new= [0.08608744 0.99794405 1.91596851]

gradient= [-1.29393240e-02 -3.25057548e-05 1.29718298e-02] w = [0.08608744 0.99794405 1.91596851] w\_new= [0.08595805 0.99794372 1.91609823]

gradient= [-1.29195286e-02 -3.24613937e-05 1.29519900e-02] w = [0.08595805 0.99794372 1.91609823] w\_new= [0.08582886 0.9979434 1.91622775]

gradient= [-1.28997643e-02 -3.24170966e-05 1.29321814e-02] w = [0.08582886 0.9979434 1.91622775] w\_new= [0.08569986 0.99794307 1.91635707]

gradient= [-1.28800311e-02 -3.23728632e-05 1.29124040e-02] w = [0.08569986 0.99794307 1.91635707] w\_new= [0.08557106 0.99794275 1.91648619]

gradient= [-1.28603289e-02 -3.23286936e-05 1.28926576e-02] w = [0.08557106 0.99794275 1.91648619] w\_new= [0.08544245 0.99794243 1.91661512]

gradient= [-1.28406576e-02 -3.22845876e-05 1.28729422e-02] w = [0.08544245 0.99794243 1.91661512] w\_new= [0.08531405 0.9979421 1.91674385]

gradient= [-1.28210173e-02 -3.22405450e-05 1.28532578e-02] w = [0.08531405 0.9979421 1.91674385] w\_new= [0.08518584 0.99794178 1.91687238]

gradient= [-1.28014078e-02 -3.21965659e-05 1.28336043e-02] w = [0.08518584 0.99794178 1.91687238] w\_new= [0.08505782 0.99794146 1.91700072]

gradient= [-1.27818291e-02 -3.21526500e-05 1.28139817e-02] w = [0.08505782 0.99794146 1.91700072] w\_new= [0.08493001 0.99794114 1.91712886]

gradient= [-1.27622811e-02 -3.21087974e-05 1.27943899e-02] w = [0.08493001 0.99794114 1.91712886] w\_new= [0.08480238 0.99794082 1.9172568 ]

gradient= [-1.27427639e-02 -3.20650078e-05 1.27748289e-02] w = [0.08480238 0.99794082 1.9172568 ] w\_new= [0.08467496 0.9979405 1.91738455]

gradient= [-1.27232773e-02 -3.20212813e-05 1.27552986e-02] w = [0.08467496 0.9979405 1.91738455] w\_new= [0.08454772 0.99794018 1.9175121 ]

gradient= [-1.27038213e-02 -3.19776176e-05 1.27357989e-02] w = [0.08454772 0.99794018 1.9175121 ] w\_new= [0.08442068 0.99793986 1.91763946]

gradient= [-1.26843959e-02 -3.19340167e-05 1.27163299e-02] w = [0.08442068 0.99793986 1.91763946] w\_new= [0.08429384 0.99793954 1.91776662]

gradient= [-1.26650009e-02 -3.18904784e-05 1.26968914e-02] w = [0.08429384 0.99793954 1.91776662] w\_new= [0.08416719 0.99793922 1.91789359]

gradient= [-1.26456364e-02 -3.18470028e-05 1.26774834e-02] w = [0.08416719 0.99793922 1.91789359] w\_new= [0.08404073 0.9979389 1.91802037]

gradient= [-1.26263024e-02 -3.18035897e-05 1.26581060e-02] w = [0.08404073 0.9979389 1.91802037] w\_new= [0.08391447 0.99793858 1.91814695]

gradient= [-1.26069986e-02 -3.17602389e-05 1.26387589e-02] w = [0.08391447 0.99793858 1.91814695] w\_new= [0.0837884 0.99793826 1.91827333]

gradient= [-1.25877252e-02 -3.17169504e-05 1.26194422e-02] w = [0.0837884 0.99793826 1.91827333] w\_new= [0.08366252 0.99793795 1.91839953]

gradient= [-1.25684820e-02 -3.16737241e-05 1.26001558e-02] w = [0.08366252 0.99793795 1.91839953] w\_new= [0.08353684 0.99793763 1.91852553]

gradient= [-1.25492691e-02 -3.16305598e-05 1.25808996e-02] w = [0.08353684 0.99793763 1.91852553] w\_new= [0.08341135 0.99793731 1.91865134]

gradient= [-1.25300863e-02 -3.15874576e-05 1.25616737e-02] w = [0.08341135 0.99793731 1.91865134] w\_new= [0.08328605 0.997937 1.91877696]

gradient= [-1.25109335e-02 -3.15444172e-05 1.25424780e-02] w = [0.08328605 0.997937 1.91877696] w\_new= [0.08316094 0.99793668 1.91890238]

gradient= [-1.24918109e-02 -3.15014386e-05 1.25233123e-02] w = [0.08316094 0.99793668 1.91890238] w\_new= [0.08303602 0.99793637 1.91902761]

gradient= [-1.24727182e-02 -3.14585217e-05 1.25041767e-02] w = [0.08303602 0.99793637 1.91902761] w\_new= [0.08291129 0.99793605 1.91915266]

gradient= [-1.24536555e-02 -3.14156664e-05 1.24850712e-02] w = [0.08291129 0.99793605 1.91915266] w\_new= [0.08278675 0.99793574 1.91927751]

gradient= [-1.24346227e-02 -3.13728726e-05 1.24659956e-02] w = [0.08278675 0.99793574 1.91927751] w\_new= [0.08266241 0.99793543 1.91940217]

gradient= [-1.24156198e-02 -3.13301401e-05 1.24469499e-02] w = [0.08266241 0.99793543 1.91940217] w\_new= [0.08253825 0.99793511 1.91952664]

gradient= [-1.23966467e-02 -3.12874690e-05 1.24279341e-02] w = [0.08253825 0.99793511 1.91952664] w\_new= [0.08241429 0.9979348 1.91965092]

gradient= [-1.23777033e-02 -3.12448590e-05 1.24089482e-02] w = [0.08241429 0.9979348 1.91965092] w\_new= [0.08229051 0.99793449 1.919775 ]

gradient= [-1.23587897e-02 -3.12023101e-05 1.23899920e-02] w = [0.08229051 0.99793449 1.919775 ] w\_new= [0.08216692 0.99793417 1.9198989 ]

gradient= [-1.23399057e-02 -3.11598222e-05 1.23710655e-02] w = [0.08216692 0.99793417 1.9198989 ] w\_new= [0.08204352 0.99793386 1.92002262]

gradient= [-1.23210513e-02 -3.11173952e-05 1.23521687e-02] w = [0.08204352 0.99793386 1.92002262] w\_new= [0.08192031 0.99793355 1.92014614]

gradient= [-1.23022265e-02 -3.10750291e-05 1.23333015e-02] w = [0.08192031 0.99793355 1.92014614] w\_new= [0.08179729 0.99793324 1.92026947]

gradient= [-1.22834312e-02 -3.10327236e-05 1.23144639e-02] w = [0.08179729 0.99793324 1.92026947] w\_new= [0.08167445 0.99793293 1.92039261]

gradient= [-1.22646653e-02 -3.09904787e-05 1.22956558e-02] w = [0.08167445 0.99793293 1.92039261] w\_new= [0.08155181 0.99793262 1.92051557]

gradient= [-1.22459289e-02 -3.09482943e-05 1.22768772e-02] w = [0.08155181 0.99793262 1.92051557] w\_new= [0.08142935 0.99793231 1.92063834]

gradient= [-1.22272219e-02 -3.09061703e-05 1.22581281e-02] w = [0.08142935 0.99793231 1.92063834] w\_new= [0.08130708 0.997932 1.92076092]

gradient= [-1.22085442e-02 -3.08641067e-05 1.22394083e-02] w = [0.08130708 0.997932 1.92076092] w\_new= [0.08118499 0.99793169 1.92088332]

gradient= [-1.21898957e-02 -3.08221032e-05 1.22207178e-02] w = [0.08118499 0.99793169 1.92088332] w\_new= [0.08106309 0.99793139 1.92100552]

gradient= [-1.21712765e-02 -3.07801599e-05 1.22020567e-02] w = [0.08106309 0.99793139 1.92100552] w\_new= [0.08094138 0.99793108 1.92112754]

gradient= [-1.21526865e-02 -3.07382766e-05 1.21834248e-02] w = [0.08094138 0.99793108 1.92112754] w\_new= [0.08081985 0.99793077 1.92124938]

gradient= [-1.21341256e-02 -3.06964532e-05 1.21648221e-02] w = [0.08081985 0.99793077 1.92124938] w\_new= [0.08069851 0.99793046 1.92137103]

gradient= [-1.21155938e-02 -3.06546897e-05 1.21462485e-02] w = [0.08069851 0.99793046 1.92137103] w\_new= [0.08057735 0.99793016 1.92149249]

gradient= [-1.20970910e-02 -3.06129859e-05 1.21277040e-02] w = [0.08057735 0.99793016 1.92149249] w\_new= [0.08045638 0.99792985 1.92161377]

gradient= [-1.20786172e-02 -3.05713417e-05 1.21091886e-02] w = [0.08045638 0.99792985 1.92161377] w\_new= [0.0803356 0.99792955 1.92173486]

gradient= [-1.20601724e-02 -3.05297571e-05 1.20907021e-02] w = [0.0803356 0.99792955 1.92173486] w\_new= [0.080215 0.99792924 1.92185576]

gradient= [-1.20417564e-02 -3.04882320e-05 1.20722447e-02] w = [0.080215 0.99792924 1.92185576] w\_new= [0.08009458 0.99792893 1.92197649]

gradient= [-1.20233693e-02 -3.04467662e-05 1.20538161e-02] w = [0.08009458 0.99792893 1.92197649] w\_new= [0.07997434 0.99792863 1.92209702]

gradient= [-1.20050110e-02 -3.04053596e-05 1.20354164e-02] w = [0.07997434 0.99792863 1.92209702] w\_new= [0.07985429 0.99792833 1.92221738]

gradient= [-1.19866815e-02 -3.03640123e-05 1.20170455e-02] w = [0.07985429 0.99792833 1.92221738] w\_new= [0.07973443 0.99792802 1.92233755]

gradient= [-1.19683806e-02 -3.03227240e-05 1.19987033e-02] w = [0.07973443 0.99792802 1.92233755] w\_new= [0.07961474 0.99792772 1.92245754]

gradient= [-1.19501084e-02 -3.02814946e-05 1.19803899e-02] w = [0.07961474 0.99792772 1.92245754] w\_new= [0.07949524 0.99792742 1.92257734]

gradient= [-1.19318649e-02 -3.02403242e-05 1.19621052e-02] w = [0.07949524 0.99792742 1.92257734] w\_new= [0.07937592 0.99792711 1.92269696]

gradient= [-1.19136498e-02 -3.01992126e-05 1.19438491e-02] w = [0.07937592 0.99792711 1.92269696] w\_new= [0.07925679 0.99792681 1.9228164 ]

gradient= [-1.18954634e-02 -3.01581596e-05 1.19256215e-02] w = [0.07925679 0.99792681 1.9228164 ] w\_new= [0.07913783 0.99792651 1.92293566]

gradient= [-1.18773053e-02 -3.01171653e-05 1.19074225e-02] w = [0.07913783 0.99792651 1.92293566] w\_new= [0.07901906 0.99792621 1.92305473]

gradient= [-1.18591757e-02 -3.00762294e-05 1.18892520e-02] w = [0.07901906 0.99792621 1.92305473] w\_new= [0.07890047 0.99792591 1.92317362]

gradient= [-1.18410745e-02 -3.00353520e-05 1.18711099e-02] w = [0.07890047 0.99792591 1.92317362] w\_new= [0.07878206 0.99792561 1.92329233]

gradient= [-1.18230016e-02 -2.99945329e-05 1.18529962e-02] w = [0.07878206 0.99792561 1.92329233] w\_new= [0.07866383 0.99792531 1.92341086]

gradient= [-1.18049570e-02 -2.99537721e-05 1.18349108e-02] w = [0.07866383 0.99792531 1.92341086] w\_new= [0.07854578 0.99792501 1.92352921]

gradient= [-1.17869407e-02 -2.99130694e-05 1.18168538e-02] w = [0.07854578 0.99792501 1.92352921] w\_new= [0.07842791 0.99792471 1.92364738]

gradient= [-1.17689525e-02 -2.98724247e-05 1.17988249e-02] w = [0.07842791 0.99792471 1.92364738] w\_new= [0.07831022 0.99792441 1.92376537]

gradient= [-1.17509925e-02 -2.98318380e-05 1.17808243e-02] w = [0.07831022 0.99792441 1.92376537] w\_new= [0.07819271 0.99792411 1.92388318]

gradient= [-1.17330606e-02 -2.97913092e-05 1.17628519e-02] w = [0.07819271 0.99792411 1.92388318] w\_new= [0.07807538 0.99792381 1.92400081]

gradient= [-1.17151567e-02 -2.97508381e-05 1.17449076e-02] w = [0.07807538 0.99792381 1.92400081] w\_new= [0.07795823 0.99792352 1.92411826]

gradient= [-1.16972809e-02 -2.97104247e-05 1.17269913e-02] w = [0.07795823 0.99792352 1.92411826] w\_new= [0.07784125 0.99792322 1.92423553]

gradient= [-1.16794330e-02 -2.96700689e-05 1.17091031e-02] w = [0.07784125 0.99792322 1.92423553] w\_new= [0.07772446 0.99792292 1.92435262]

gradient= [-1.16616130e-02 -2.96297706e-05 1.16912428e-02] w = [0.07772446 0.99792292 1.92435262] w\_new= [0.07760784 0.99792263 1.92446953]

gradient= [-1.16438210e-02 -2.95895297e-05 1.16734105e-02] w = [0.07760784 0.99792263 1.92446953] w\_new= [0.07749141 0.99792233 1.92458626]

gradient= [-1.16260567e-02 -2.95493461e-05 1.16556060e-02] w = [0.07749141 0.99792233 1.92458626] w\_new= [0.07737514 0.99792204 1.92470282]

gradient= [-1.16083202e-02 -2.95092197e-05 1.16378294e-02] w = [0.07737514 0.99792204 1.92470282] w\_new= [0.07725906 0.99792174 1.9248192 ]

gradient= [-1.15906115e-02 -2.94691505e-05 1.16200806e-02] w = [0.07725906 0.99792174 1.9248192 ] w\_new= [0.07714316 0.99792145 1.9249354 ]

gradient= [-1.15729304e-02 -2.94291383e-05 1.16023596e-02] w = [0.07714316 0.99792145 1.9249354 ] w\_new= [0.07702743 0.99792115 1.92505142]

gradient= [-1.15552770e-02 -2.93891831e-05 1.15846662e-02] w = [0.07702743 0.99792115 1.92505142] w\_new= [0.07691187 0.99792086 1.92516727]

gradient= [-1.15376512e-02 -2.93492847e-05 1.15670005e-02] w = [0.07691187 0.99792086 1.92516727] w\_new= [0.0767965 0.99792056 1.92528294]

gradient= [-1.15200530e-02 -2.93094431e-05 1.15493624e-02] w = [0.0767965 0.99792056 1.92528294] w\_new= [0.0766813 0.99792027 1.92539843]

gradient= [-1.15024822e-02 -2.92696582e-05 1.15317519e-02] w = [0.0766813 0.99792027 1.92539843] w\_new= [0.07656627 0.99791998 1.92551375]

gradient= [-1.14849389e-02 -2.92299299e-05 1.15141689e-02] w = [0.07656627 0.99791998 1.92551375] w\_new= [0.07645142 0.99791969 1.92562889]

gradient= [-1.14674231e-02 -2.91902580e-05 1.14966134e-02] w = [0.07645142 0.99791969 1.92562889] w\_new= [0.07633675 0.99791939 1.92574386]

gradient= [-1.14499346e-02 -2.91506426e-05 1.14790853e-02] w = [0.07633675 0.99791939 1.92574386] w\_new= [0.07622225 0.9979191 1.92585865]

gradient= [-1.14324735e-02 -2.91110835e-05 1.14615846e-02] w = [0.07622225 0.9979191 1.92585865] w\_new= [0.07610792 0.99791881 1.92597326]

gradient= [-1.14150396e-02 -2.90715807e-05 1.14441112e-02] w = [0.07610792 0.99791881 1.92597326] w\_new= [0.07599377 0.99791852 1.92608771]

gradient= [-1.13976330e-02 -2.90321340e-05 1.14266652e-02] w = [0.07599377 0.99791852 1.92608771] w\_new= [0.0758798 0.99791823 1.92620197]

gradient= [-1.13802536e-02 -2.89927434e-05 1.14092464e-02] w = [0.0758798 0.99791823 1.92620197] w\_new= [0.07576599 0.99791794 1.92631606]

gradient= [-1.13629014e-02 -2.89534087e-05 1.13918548e-02] w = [0.07576599 0.99791794 1.92631606] w\_new= [0.07565237 0.99791765 1.92642998]

gradient= [-1.13455762e-02 -2.89141299e-05 1.13744904e-02] w = [0.07565237 0.99791765 1.92642998] w\_new= [0.07553891 0.99791736 1.92654373]

gradient= [-1.13282781e-02 -2.88749069e-05 1.13571531e-02] w = [0.07553891 0.99791736 1.92654373] w\_new= [0.07542563 0.99791707 1.9266573 ]

gradient= [-1.13110071e-02 -2.88357396e-05 1.13398428e-02] w = [0.07542563 0.99791707 1.9266573 ] w\_new= [0.07531252 0.99791679 1.9267707 ]

gradient= [-1.12937630e-02 -2.87966280e-05 1.13225596e-02] w = [0.07531252 0.99791679 1.9267707 ] w\_new= [0.07519958 0.9979165 1.92688392]

gradient= [-1.12765459e-02 -2.87575718e-05 1.13053034e-02] w = [0.07519958 0.9979165 1.92688392] w\_new= [0.07508681 0.99791621 1.92699698]

gradient= [-1.12593556e-02 -2.87185711e-05 1.12880742e-02] w = [0.07508681 0.99791621 1.92699698] w\_new= [0.07497422 0.99791592 1.92710986]

gradient= [-1.12421922e-02 -2.86796258e-05 1.12708718e-02] w = [0.07497422 0.99791592 1.92710986] w\_new= [0.0748618 0.99791564 1.92722257]

gradient= [-1.12250556e-02 -2.86407357e-05 1.12536963e-02] w = [0.0748618 0.99791564 1.92722257] w\_new= [0.07474955 0.99791535 1.9273351 ]

gradient= [-1.12079458e-02 -2.86019008e-05 1.12365477e-02] w = [0.07474955 0.99791535 1.9273351 ] w\_new= [0.07463747 0.99791506 1.92744747]

gradient= [-1.11908626e-02 -2.85631210e-05 1.12194258e-02] w = [0.07463747 0.99791506 1.92744747] w\_new= [0.07452556 0.99791478 1.92755966]

gradient= [-1.11738062e-02 -2.85243962e-05 1.12023306e-02] w = [0.07452556 0.99791478 1.92755966] w\_new= [0.07441382 0.99791449 1.92767169]

gradient= [-1.11567763e-02 -2.84857264e-05 1.11852621e-02] w = [0.07441382 0.99791449 1.92767169] w\_new= [0.07430225 0.99791421 1.92778354]

gradient= [-1.11397731e-02 -2.84471113e-05 1.11682202e-02] w = [0.07430225 0.99791421 1.92778354] w\_new= [0.07419086 0.99791392 1.92789522]

gradient= [-1.11227964e-02 -2.84085511e-05 1.11512050e-02] w = [0.07419086 0.99791392 1.92789522] w\_new= [0.07407963 0.99791364 1.92800673]

gradient= [-1.11058462e-02 -2.83700454e-05 1.11342163e-02] w = [0.07407963 0.99791364 1.92800673] w\_new= [0.07396857 0.99791336 1.92811807]

gradient= [-1.10889225e-02 -2.83315944e-05 1.11172541e-02] w = [0.07396857 0.99791336 1.92811807] w\_new= [0.07385768 0.99791307 1.92822925]

gradient= [-1.10720251e-02 -2.82931978e-05 1.11003183e-02] w = [0.07385768 0.99791307 1.92822925] w\_new= [0.07374696 0.99791279 1.92834025]

gradient= [-1.10551542e-02 -2.82548557e-05 1.10834090e-02] w = [0.07374696 0.99791279 1.92834025] w\_new= [0.07363641 0.99791251 1.92845108]

gradient= [-1.10383095e-02 -2.82165679e-05 1.10665261e-02] w = [0.07363641 0.99791251 1.92845108] w\_new= [0.07352603 0.99791222 1.92856175]

gradient= [-1.10214912e-02 -2.81783343e-05 1.10496695e-02] w = [0.07352603 0.99791222 1.92856175] w\_new= [0.07341581 0.99791194 1.92867225]

gradient= [-1.10046991e-02 -2.81401548e-05 1.10328392e-02] w = [0.07341581 0.99791194 1.92867225] w\_new= [0.07330576 0.99791166 1.92878258]

gradient= [-1.09879332e-02 -2.81020295e-05 1.10160352e-02] w = [0.07330576 0.99791166 1.92878258] w\_new= [0.07319588 0.99791138 1.92889274]

gradient= [-1.09711934e-02 -2.80639581e-05 1.09992574e-02] w = [0.07319588 0.99791138 1.92889274] w\_new= [0.07308617 0.9979111 1.92900273]

gradient= [-1.09544798e-02 -2.80259406e-05 1.09825057e-02] w = [0.07308617 0.9979111 1.92900273] w\_new= [0.07297663 0.99791082 1.92911255]

gradient= [-1.09377922e-02 -2.79879769e-05 1.09657802e-02] w = [0.07297663 0.99791082 1.92911255] w\_new= [0.07286725 0.99791054 1.92922221]

gradient= [-1.09211306e-02 -2.79500669e-05 1.09490807e-02] w = [0.07286725 0.99791054 1.92922221] w\_new= [0.07275804 0.99791026 1.9293317 ]

gradient= [-1.09044951e-02 -2.79122106e-05 1.09324073e-02] w = [0.07275804 0.99791026 1.9293317 ] w\_new= [0.07264899 0.99790998 1.92944103]

gradient= [-1.08878855e-02 -2.78744078e-05 1.09157599e-02] w = [0.07264899 0.99790998 1.92944103] w\_new= [0.07254011 0.9979097 1.92955018]

gradient= [-1.08713018e-02 -2.78366585e-05 1.08991384e-02] w = [0.07254011 0.9979097 1.92955018] w\_new= [0.0724314 0.99790942 1.92965917]

gradient= [-1.08547439e-02 -2.77989626e-05 1.08825429e-02] w = [0.0724314 0.99790942 1.92965917] w\_new= [0.07232285 0.99790915 1.929768 ]

gradient= [-1.08382119e-02 -2.77613200e-05 1.08659732e-02] w = [0.07232285 0.99790915 1.929768 ] w\_new= [0.07221447 0.99790887 1.92987666]

gradient= [-1.08217056e-02 -2.77237306e-05 1.08494294e-02] w = [0.07221447 0.99790887 1.92987666] w\_new= [0.07210626 0.99790859 1.92998515]

gradient= [-1.08052251e-02 -2.76861944e-05 1.08329113e-02] w = [0.07210626 0.99790859 1.92998515] w\_new= [0.0719982 0.99790831 1.93009348]

gradient= [-1.07887703e-02 -2.76487112e-05 1.08164190e-02] w = [0.0719982 0.99790831 1.93009348] w\_new= [0.07189032 0.99790804 1.93020165]

gradient= [-1.07723411e-02 -2.76112810e-05 1.07999524e-02] w = [0.07189032 0.99790804 1.93020165] w\_new= [0.07178259 0.99790776 1.93030965]

gradient= [-1.07559376e-02 -2.75739037e-05 1.07835115e-02] w = [0.07178259 0.99790776 1.93030965] w\_new= [0.07167503 0.99790749 1.93041748]

gradient= [-1.07395596e-02 -2.75365792e-05 1.07670961e-02] w = [0.07167503 0.99790749 1.93041748] w\_new= [0.07156764 0.99790721 1.93052515]

gradient= [-1.07232071e-02 -2.74993075e-05 1.07507064e-02] w = [0.07156764 0.99790721 1.93052515] w\_new= [0.0714604 0.99790694 1.93063266]

gradient= [-1.07068801e-02 -2.74620883e-05 1.07343422e-02] w = [0.0714604 0.99790694 1.93063266] w\_new= [0.07135334 0.99790666 1.93074 ]

gradient= [-1.06905785e-02 -2.74249218e-05 1.07180035e-02] w = [0.07135334 0.99790666 1.93074 ] w\_new= [0.07124643 0.99790639 1.93084718]

gradient= [-1.06743024e-02 -2.73878077e-05 1.07016902e-02] w = [0.07124643 0.99790639 1.93084718] w\_new= [0.07113969 0.99790611 1.9309542 ]

gradient= [-1.06580516e-02 -2.73507460e-05 1.06854024e-02] w = [0.07113969 0.99790611 1.9309542 ] w\_new= [0.07103311 0.99790584 1.93106105]

gradient= [-1.06418262e-02 -2.73137366e-05 1.06691399e-02] w = [0.07103311 0.99790584 1.93106105] w\_new= [0.07092669 0.99790557 1.93116775]

gradient= [-1.06256260e-02 -2.72767795e-05 1.06529028e-02] w = [0.07092669 0.99790557 1.93116775] w\_new= [0.07082043 0.99790529 1.93127428]

gradient= [-1.06094510e-02 -2.72398745e-05 1.06366909e-02] w = [0.07082043 0.99790529 1.93127428] w\_new= [0.07071434 0.99790502 1.93138064]

gradient= [-1.05933013e-02 -2.72030216e-05 1.06205043e-02] w = [0.07071434 0.99790502 1.93138064] w\_new= [0.0706084 0.99790475 1.93148685]

gradient= [-1.05771767e-02 -2.71662207e-05 1.06043429e-02] w = [0.0706084 0.99790475 1.93148685] w\_new= [0.07050263 0.99790448 1.93159289]

gradient= [-1.05610772e-02 -2.71294717e-05 1.05882067e-02] w = [0.07050263 0.99790448 1.93159289] w\_new= [0.07039702 0.99790421 1.93169877]

gradient= [-1.05450028e-02 -2.70927745e-05 1.05720956e-02] w = [0.07039702 0.99790421 1.93169877] w\_new= [0.07029157 0.99790393 1.93180449]

gradient= [-1.05289534e-02 -2.70561291e-05 1.05560096e-02] w = [0.07029157 0.99790393 1.93180449] w\_new= [0.07018628 0.99790366 1.93191005]

gradient= [-1.05129291e-02 -2.70195353e-05 1.05399486e-02] w = [0.07018628 0.99790366 1.93191005] w\_new= [0.07008115 0.99790339 1.93201545]

gradient= [-1.04969296e-02 -2.69829931e-05 1.05239126e-02] w = [0.07008115 0.99790339 1.93201545] w\_new= [0.06997618 0.99790312 1.93212069]

gradient= [-1.04809551e-02 -2.69465025e-05 1.05079016e-02] w = [0.06997618 0.99790312 1.93212069] w\_new= [0.06987137 0.99790285 1.93222577]

gradient= [-1.04650055e-02 -2.69100632e-05 1.04919155e-02] w = [0.06987137 0.99790285 1.93222577] w\_new= [0.06976672 0.99790259 1.93233069]

gradient= [-1.04490807e-02 -2.68736753e-05 1.04759543e-02] w = [0.06976672 0.99790259 1.93233069] w\_new= [0.06966223 0.99790232 1.93243545]

gradient= [-1.04331807e-02 -2.68373387e-05 1.04600180e-02] w = [0.06966223 0.99790232 1.93243545] w\_new= [0.0695579 0.99790205 1.93254005]

gradient= [-1.04173054e-02 -2.68010533e-05 1.04441064e-02] w = [0.0695579 0.99790205 1.93254005] w\_new= [0.06945373 0.99790178 1.93264449]

gradient= [-1.04014548e-02 -2.67648189e-05 1.04282197e-02] w = [0.06945373 0.99790178 1.93264449] w\_new= [0.06934971 0.99790151 1.93274877]

gradient= [-1.03856289e-02 -2.67286356e-05 1.04123576e-02] w = [0.06934971 0.99790151 1.93274877] w\_new= [0.06924586 0.99790125 1.9328529 ]

gradient= [-1.03698277e-02 -2.66925033e-05 1.03965202e-02] w = [0.06924586 0.99790125 1.9328529 ] w\_new= [0.06914216 0.99790098 1.93295686]

gradient= [-1.03540510e-02 -2.66564218e-05 1.03807075e-02] w = [0.06914216 0.99790098 1.93295686] w\_new= [0.06903862 0.99790071 1.93306067]

gradient= [-1.03382989e-02 -2.66203911e-05 1.03649193e-02] w = [0.06903862 0.99790071 1.93306067] w\_new= [0.06893524 0.99790045 1.93316432]

gradient= [-1.03225713e-02 -2.65844111e-05 1.03491557e-02] w = [0.06893524 0.99790045 1.93316432] w\_new= [0.06883201 0.99790018 1.93326781]

gradient= [-1.03068682e-02 -2.65484818e-05 1.03334167e-02] w = [0.06883201 0.99790018 1.93326781] w\_new= [0.06872894 0.99789991 1.93337114]

gradient= [-1.02911895e-02 -2.65126030e-05 1.03177021e-02] w = [0.06872894 0.99789991 1.93337114] w\_new= [0.06862603 0.99789965 1.93347432]

gradient= [-1.02755352e-02 -2.64767747e-05 1.03020120e-02] w = [0.06862603 0.99789965 1.93347432] w\_new= [0.06852327 0.99789938 1.93357734]

gradient= [-1.02599053e-02 -2.64409968e-05 1.02863463e-02] w = [0.06852327 0.99789938 1.93357734] w\_new= [0.06842068 0.99789912 1.9336802 ]

gradient= [-1.02442996e-02 -2.64052692e-05 1.02707049e-02] w = [0.06842068 0.99789912 1.9336802 ] w\_new= [0.06831823 0.99789886 1.93378291]

gradient= [-1.02287183e-02 -2.63695919e-05 1.02550879e-02] w = [0.06831823 0.99789886 1.93378291] w\_new= [0.06821595 0.99789859 1.93388546]

gradient= [-1.02131611e-02 -2.63339647e-05 1.02394951e-02] w = [0.06821595 0.99789859 1.93388546] w\_new= [0.06811381 0.99789833 1.93398786]

gradient= [-1.01976282e-02 -2.62983876e-05 1.02239266e-02] w = [0.06811381 0.99789833 1.93398786] w\_new= [0.06801184 0.99789807 1.9340901 ]

gradient= [-1.01821194e-02 -2.62628605e-05 1.02083823e-02] w = [0.06801184 0.99789807 1.9340901 ] w\_new= [0.06791002 0.9978978 1.93419218]

gradient= [-1.01666348e-02 -2.62273834e-05 1.01928622e-02] w = [0.06791002 0.9978978 1.93419218] w\_new= [0.06780835 0.99789754 1.93429411]

gradient= [-1.01511742e-02 -2.61919561e-05 1.01773662e-02] w = [0.06780835 0.99789754 1.93429411] w\_new= [0.06770684 0.99789728 1.93439588]

gradient= [-1.01357377e-02 -2.61565786e-05 1.01618943e-02] w = [0.06770684 0.99789728 1.93439588] w\_new= [0.06760548 0.99789702 1.9344975 ]

gradient= [-1.01203251e-02 -2.61212508e-05 1.01464464e-02] w = [0.06760548 0.99789702 1.9344975 ] w\_new= [0.06750428 0.99789676 1.93459897]

gradient= [-1.01049366e-02 -2.60859726e-05 1.01310226e-02] w = [0.06750428 0.99789676 1.93459897] w\_new= [0.06740323 0.9978965 1.93470028]

gradient= [-1.00895719e-02 -2.60507439e-05 1.01156227e-02] w = [0.06740323 0.9978965 1.93470028] w\_new= [0.06730233 0.99789624 1.93480143]

gradient= [-1.00742312e-02 -2.60155648e-05 1.01002467e-02] w = [0.06730233 0.99789624 1.93480143] w\_new= [0.06720159 0.99789597 1.93490244]

gradient= [-1.00589143e-02 -2.59804350e-05 1.00848947e-02] w = [0.06720159 0.99789597 1.93490244] w\_new= [0.067101 0.99789572 1.93500328]

gradient= [-1.00436212e-02 -2.59453545e-05 1.00695665e-02] w = [0.067101 0.99789572 1.93500328] w\_new= [0.06700056 0.99789546 1.93510398]

gradient= [-1.00283518e-02 -2.59103233e-05 1.00542621e-02] w = [0.06700056 0.99789546 1.93510398] w\_new= [0.06690028 0.9978952 1.93520452]

gradient= [-1.00131062e-02 -2.58753413e-05 1.00389815e-02] w = [0.06690028 0.9978952 1.93520452] w\_new= [0.06680015 0.99789494 1.93530491]

gradient= [-9.99788429e-03 -2.58404083e-05 1.00237247e-02] w = [0.06680015 0.99789494 1.93530491] w\_new= [0.06670017 0.99789468 1.93540515]

gradient= [-9.98268603e-03 -2.58055244e-05 1.00084916e-02] w = [0.06670017 0.99789468 1.93540515] w\_new= [0.06660034 0.99789442 1.93550523]

gradient= [-9.96751139e-03 -2.57706894e-05 9.99328208e-03] w = [0.06660034 0.99789442 1.93550523] w\_new= [0.06650067 0.99789416 1.93560517]

gradient= [-9.95236033e-03 -2.57359033e-05 9.97809623e-03] w = [0.06650067 0.99789416 1.93560517] w\_new= [0.06640115 0.99789391 1.93570495]

gradient= [-9.93723280e-03 -2.57011659e-05 9.96293397e-03] w = [0.06640115 0.99789391 1.93570495] w\_new= [0.06630177 0.99789365 1.93580458]

gradient= [-9.92212878e-03 -2.56664773e-05 9.94779526e-03] w = [0.06630177 0.99789365 1.93580458] w\_new= [0.06620255 0.99789339 1.93590406]

gradient= [-9.90704822e-03 -2.56318373e-05 9.93268006e-03] w = [0.06620255 0.99789339 1.93590406] w\_new= [0.06610348 0.99789314 1.93600338]

gradient= [-9.89199109e-03 -2.55972459e-05 9.91758833e-03] w = [0.06610348 0.99789314 1.93600338] w\_new= [0.06600456 0.99789288 1.93610256]

gradient= [-9.87695734e-03 -2.55627029e-05 9.90252005e-03] w = [0.06600456 0.99789288 1.93610256] w\_new= [0.06590579 0.99789262 1.93620158]

gradient= [-9.86194695e-03 -2.55282084e-05 9.88747516e-03] w = [0.06590579 0.99789262 1.93620158] w\_new= [0.06580717 0.99789237 1.93630046]

gradient= [-9.84695987e-03 -2.54937622e-05 9.87245363e-03] w = [0.06580717 0.99789237 1.93630046] w\_new= [0.0657087 0.99789211 1.93639918]

gradient= [-9.83199606e-03 -2.54593643e-05 9.85745543e-03] w = [0.0657087 0.99789211 1.93639918] w\_new= [0.06561038 0.99789186 1.93649776]

gradient= [-9.81705550e-03 -2.54250146e-05 9.84248051e-03] w = [0.06561038 0.99789186 1.93649776] w\_new= [0.06551221 0.99789161 1.93659618]

gradient= [-9.80213813e-03 -2.53907130e-05 9.82752884e-03] w = [0.06551221 0.99789161 1.93659618] w\_new= [0.06541419 0.99789135 1.93669446]

gradient= [-9.78724393e-03 -2.53564594e-05 9.81260039e-03] w = [0.06541419 0.99789135 1.93669446] w\_new= [0.06531632 0.9978911 1.93679258]

gradient= [-9.77237285e-03 -2.53222538e-05 9.79769510e-03] w = [0.06531632 0.9978911 1.93679258] w\_new= [0.06521859 0.99789084 1.93689056]

gradient= [-9.75752486e-03 -2.52880961e-05 9.78281295e-03] w = [0.06521859 0.99789084 1.93689056] w\_new= [0.06512102 0.99789059 1.93698839]

gradient= [-9.74269992e-03 -2.52539862e-05 9.76795390e-03] w = [0.06512102 0.99789059 1.93698839] w\_new= [0.06502359 0.99789034 1.93708607]

gradient= [-9.72789799e-03 -2.52199241e-05 9.75311792e-03] w = [0.06502359 0.99789034 1.93708607] w\_new= [0.06492631 0.99789009 1.9371836 ]

gradient= [-9.71311904e-03 -2.51859096e-05 9.73830495e-03] w = [0.06492631 0.99789009 1.9371836 ] w\_new= [0.06482918 0.99788984 1.93728098]

gradient= [-9.69836304e-03 -2.51519428e-05 9.72351498e-03] w = [0.06482918 0.99788984 1.93728098] w\_new= [0.0647322 0.99788958 1.93737822]

gradient= [-9.68362993e-03 -2.51180234e-05 9.70874795e-03] w = [0.0647322 0.99788958 1.93737822] w\_new= [0.06463536 0.99788933 1.9374753 ]

gradient= [-9.66891969e-03 -2.50841516e-05 9.69400384e-03] w = [0.06463536 0.99788933 1.9374753 ] w\_new= [0.06453867 0.99788908 1.93757224]

gradient= [-9.65423228e-03 -2.50503271e-05 9.67928260e-03] w = [0.06453867 0.99788908 1.93757224] w\_new= [0.06444213 0.99788883 1.93766904]

gradient= [-9.63956766e-03 -2.50165499e-05 9.66458421e-03] w = [0.06444213 0.99788883 1.93766904] w\_new= [0.06434574 0.99788858 1.93776568]

gradient= [-9.62492579e-03 -2.49828200e-05 9.64990861e-03] w = [0.06434574 0.99788858 1.93776568] w\_new= [0.06424949 0.99788833 1.93786218]

gradient= [-9.61030665e-03 -2.49491372e-05 9.63525579e-03] w = [0.06424949 0.99788833 1.93786218] w\_new= [0.06415338 0.99788808 1.93795854]

gradient= [-9.59571019e-03 -2.49155016e-05 9.62062569e-03] w = [0.06415338 0.99788808 1.93795854] w\_new= [0.06405743 0.99788783 1.93805474]

gradient= [-9.58113637e-03 -2.48819129e-05 9.60601828e-03] w = [0.06405743 0.99788783 1.93805474] w\_new= [0.06396161 0.99788758 1.9381508 ]

gradient= [-9.56658516e-03 -2.48483712e-05 9.59143353e-03] w = [0.06396161 0.99788758 1.9381508 ] w\_new= [0.06386595 0.99788734 1.93824672]

gradient= [-9.55205653e-03 -2.48148764e-05 9.57687140e-03] w = [0.06386595 0.99788734 1.93824672] w\_new= [0.06377043 0.99788709 1.93834248]

gradient= [-9.53755043e-03 -2.47814284e-05 9.56233186e-03] w = [0.06377043 0.99788709 1.93834248] w\_new= [0.06367505 0.99788684 1.93843811]

gradient= [-9.52306683e-03 -2.47480271e-05 9.54781486e-03] w = [0.06367505 0.99788684 1.93843811] w\_new= [0.06357982 0.99788659 1.93853359]

gradient= [-9.50860569e-03 -2.47146725e-05 9.53332037e-03] w = [0.06357982 0.99788659 1.93853359] w\_new= [0.06348474 0.99788634 1.93862892]

gradient= [-9.49416699e-03 -2.46813644e-05 9.51884835e-03] w = [0.06348474 0.99788634 1.93862892] w\_new= [0.06338979 0.9978861 1.93872411]

gradient= [-9.47975067e-03 -2.46481029e-05 9.50439877e-03] w = [0.06338979 0.9978861 1.93872411] w\_new= [0.063295 0.99788585 1.93881915]

gradient= [-9.46535671e-03 -2.46148879e-05 9.48997160e-03] w = [0.063295 0.99788585 1.93881915] w\_new= [0.06320034 0.99788561 1.93891405]

gradient= [-9.45098507e-03 -2.45817192e-05 9.47556679e-03] w = [0.06320034 0.99788561 1.93891405] w\_new= [0.06310583 0.99788536 1.93900881]

gradient= [-9.43663572e-03 -2.45485968e-05 9.46118431e-03] w = [0.06310583 0.99788536 1.93900881] w\_new= [0.06301147 0.99788511 1.93910342]

gradient= [-9.42230861e-03 -2.45155207e-05 9.44682413e-03] w = [0.06301147 0.99788511 1.93910342] w\_new= [0.06291724 0.99788487 1.93919789]

gradient= [-9.40800371e-03 -2.44824907e-05 9.43248620e-03] w = [0.06291724 0.99788487 1.93919789] w\_new= [0.06282316 0.99788462 1.93929221]

gradient= [-9.39372099e-03 -2.44495069e-05 9.41817050e-03] w = [0.06282316 0.99788462 1.93929221] w\_new= [0.06272923 0.99788438 1.93938639]

gradient= [-9.37946041e-03 -2.44165690e-05 9.40387698e-03] w = [0.06272923 0.99788438 1.93938639] w\_new= [0.06263543 0.99788414 1.93948043]

gradient= [-9.36522194e-03 -2.43836771e-05 9.38960561e-03] w = [0.06263543 0.99788414 1.93948043] w\_new= [0.06254178 0.99788389 1.93957433]

gradient= [-9.35100553e-03 -2.43508311e-05 9.37535636e-03] w = [0.06254178 0.99788389 1.93957433] w\_new= [0.06244827 0.99788365 1.93966808]

gradient= [-9.33681116e-03 -2.43180309e-05 9.36112919e-03] w = [0.06244827 0.99788365 1.93966808] w\_new= [0.0623549 0.9978834 1.93976169]

gradient= [-9.32263879e-03 -2.42852765e-05 9.34692407e-03] w = [0.0623549 0.9978834 1.93976169] w\_new= [0.06226168 0.99788316 1.93985516]

gradient= [-9.30848838e-03 -2.42525677e-05 9.33274095e-03] w = [0.06226168 0.99788316 1.93985516] w\_new= [0.06216859 0.99788292 1.93994849]

gradient= [-9.29435990e-03 -2.42199046e-05 9.31857980e-03] w = [0.06216859 0.99788292 1.93994849] w\_new= [0.06207565 0.99788268 1.94004168]

gradient= [-9.28025331e-03 -2.41872869e-05 9.30444060e-03] w = [0.06207565 0.99788268 1.94004168] w\_new= [0.06198284 0.99788244 1.94013472]

gradient= [-9.26616858e-03 -2.41547148e-05 9.29032329e-03] w = [0.06198284 0.99788244 1.94013472] w\_new= [0.06189018 0.99788219 1.94022762]

gradient= [-9.25210567e-03 -2.41221880e-05 9.27622786e-03] w = [0.06189018 0.99788219 1.94022762] w\_new= [0.06179766 0.99788195 1.94032039]

gradient= [-9.23806455e-03 -2.40897066e-05 9.26215426e-03] w = [0.06179766 0.99788195 1.94032039] w\_new= [0.06170528 0.99788171 1.94041301]

gradient= [-9.22404518e-03 -2.40572704e-05 9.24810245e-03] w = [0.06170528 0.99788171 1.94041301] w\_new= [0.06161304 0.99788147 1.94050549]

gradient= [-9.21004753e-03 -2.40248795e-05 9.23407241e-03] w = [0.06161304 0.99788147 1.94050549] w\_new= [0.06152094 0.99788123 1.94059783]

gradient= [-9.19607156e-03 -2.39925336e-05 9.22006409e-03] w = [0.06152094 0.99788123 1.94059783] w\_new= [0.06142898 0.99788099 1.94069003]

gradient= [-9.18211724e-03 -2.39602328e-05 9.20607747e-03] w = [0.06142898 0.99788099 1.94069003] w\_new= [0.06133716 0.99788075 1.94078209]

gradient= [-9.16818453e-03 -2.39279770e-05 9.19211251e-03] w = [0.06133716 0.99788075 1.94078209] w\_new= [0.06124548 0.99788051 1.94087401]

gradient= [-9.15427340e-03 -2.38957661e-05 9.17816916e-03] w = [0.06124548 0.99788051 1.94087401] w\_new= [0.06115393 0.99788027 1.94096579]

gradient= [-9.14038381e-03 -2.38636000e-05 9.16424741e-03] w = [0.06115393 0.99788027 1.94096579] w\_new= [0.06106253 0.99788003 1.94105744]

gradient= [-9.12651573e-03 -2.38314788e-05 9.15034721e-03] w = [0.06106253 0.99788003 1.94105744] w\_new= [0.06097126 0.9978798 1.94114894]

gradient= [-9.11266913e-03 -2.37994022e-05 9.13646853e-03] w = [0.06097126 0.9978798 1.94114894] w\_new= [0.06088014 0.99787956 1.9412403 ]

gradient= [-9.09884396e-03 -2.37673703e-05 9.12261133e-03] w = [0.06088014 0.99787956 1.9412403 ] w\_new= [0.06078915 0.99787932 1.94133153]

gradient= [-9.08504021e-03 -2.37353830e-05 9.10877559e-03] w = [0.06078915 0.99787932 1.94133153] w\_new= [0.0606983 0.99787908 1.94142262]

gradient= [-9.07125782e-03 -2.37034402e-05 9.09496126e-03] w = [0.0606983 0.99787908 1.94142262] w\_new= [0.06060759 0.99787885 1.94151357]

gradient= [-9.05749677e-03 -2.36715418e-05 9.08116831e-03] w = [0.06060759 0.99787885 1.94151357] w\_new= [0.06051701 0.99787861 1.94160438]

gradient= [-9.04375702e-03 -2.36396878e-05 9.06739671e-03] w = [0.06051701 0.99787861 1.94160438] w\_new= [0.06042657 0.99787837 1.94169505]

gradient= [-9.03003854e-03 -2.36078781e-05 9.05364642e-03] w = [0.06042657 0.99787837 1.94169505] w\_new= [0.06033627 0.99787814 1.94178559]

gradient= [-9.01634129e-03 -2.35761126e-05 9.03991741e-03] w = [0.06033627 0.99787814 1.94178559] w\_new= [0.06024611 0.9978779 1.94187599]

gradient= [-9.00266525e-03 -2.35443913e-05 9.02620964e-03] w = [0.06024611 0.9978779 1.94187599] w\_new= [0.06015608 0.99787767 1.94196625]

gradient= [-8.98901037e-03 -2.35127142e-05 9.01252308e-03] w = [0.06015608 0.99787767 1.94196625] w\_new= [0.06006619 0.99787743 1.94205638]

gradient= [-8.97537662e-03 -2.34810810e-05 8.99885770e-03] w = [0.06006619 0.99787743 1.94205638] w\_new= [0.05997644 0.9978772 1.94214636]

gradient= [-8.96176397e-03 -2.34494918e-05 8.98521347e-03] w = [0.05997644 0.9978772 1.94214636] w\_new= [0.05988682 0.99787696 1.94223622]

gradient= [-8.94817239e-03 -2.34179466e-05 8.97159034e-03] w = [0.05988682 0.99787696 1.94223622] w\_new= [0.05979734 0.99787673 1.94232593]

gradient= [-8.93460184e-03 -2.33864452e-05 8.95798828e-03] w = [0.05979734 0.99787673 1.94232593] w\_new= [0.05970799 0.99787649 1.94241551]

gradient= [-8.92105228e-03 -2.33549875e-05 8.94440727e-03] w = [0.05970799 0.99787649 1.94241551] w\_new= [0.05961878 0.99787626 1.94250496]

gradient= [-8.90752369e-03 -2.33235736e-05 8.93084726e-03] w = [0.05961878 0.99787626 1.94250496] w\_new= [0.05952971 0.99787603 1.94259427]

gradient= [-8.89401602e-03 -2.32922033e-05 8.91730823e-03] w = [0.05952971 0.99787603 1.94259427] w\_new= [0.05944077 0.99787579 1.94268344]

gradient= [-8.88052926e-03 -2.32608766e-05 8.90379013e-03] w = [0.05944077 0.99787579 1.94268344] w\_new= [0.05935196 0.99787556 1.94277248]

gradient= [-8.86706335e-03 -2.32295933e-05 8.89029294e-03] w = [0.05935196 0.99787556 1.94277248] w\_new= [0.05926329 0.99787533 1.94286138]

gradient= [-8.85361828e-03 -2.31983536e-05 8.87681663e-03] w = [0.05926329 0.99787533 1.94286138] w\_new= [0.05917476 0.9978751 1.94295015]

gradient= [-8.84019400e-03 -2.31671572e-05 8.86336115e-03] w = [0.05917476 0.9978751 1.94295015] w\_new= [0.05908635 0.99787487 1.94303878]

gradient= [-8.82679048e-03 -2.31360041e-05 8.84992648e-03] w = [0.05908635 0.99787487 1.94303878] w\_new= [0.05899809 0.99787463 1.94312728]

gradient= [-8.81340769e-03 -2.31048943e-05 8.83651259e-03] w = [0.05899809 0.99787463 1.94312728] w\_new= [0.05890995 0.9978744 1.94321565]

gradient= [-8.80004560e-03 -2.30738276e-05 8.82311943e-03] w = [0.05890995 0.9978744 1.94321565] w\_new= [0.05882195 0.99787417 1.94330388]

gradient= [-8.78670417e-03 -2.30428041e-05 8.80974697e-03] w = [0.05882195 0.99787417 1.94330388] w\_new= [0.05873408 0.99787394 1.94339197]

gradient= [-8.77338337e-03 -2.30118236e-05 8.79639520e-03] w = [0.05873408 0.99787394 1.94339197] w\_new= [0.05864635 0.99787371 1.94347994]

gradient= [-8.76008317e-03 -2.29808861e-05 8.78306406e-03] w = [0.05864635 0.99787371 1.94347994] w\_new= [0.05855875 0.99787348 1.94356777]

gradient= [-8.74680353e-03 -2.29499915e-05 8.76975352e-03] w = [0.05855875 0.99787348 1.94356777] w\_new= [0.05847128 0.99787325 1.94365547]

gradient= [-8.73354442e-03 -2.29191398e-05 8.75646356e-03] w = [0.05847128 0.99787325 1.94365547] w\_new= [0.05838395 0.99787302 1.94374303]

gradient= [-8.72030581e-03 -2.28883308e-05 8.74319414e-03] w = [0.05838395 0.99787302 1.94374303] w\_new= [0.05829674 0.99787279 1.94383046]

gradient= [-8.70708767e-03 -2.28575646e-05 8.72994523e-03] w = [0.05829674 0.99787279 1.94383046] w\_new= [0.05820967 0.99787257 1.94391776]

gradient= [-8.69388996e-03 -2.28268411e-05 8.71671680e-03] w = [0.05820967 0.99787257 1.94391776] w\_new= [0.05812273 0.99787234 1.94400493]

gradient= [-8.68071265e-03 -2.27961602e-05 8.70350881e-03] w = [0.05812273 0.99787234 1.94400493] w\_new= [0.05803593 0.99787211 1.94409196]

gradient= [-8.66755570e-03 -2.27655218e-05 8.69032122e-03] w = [0.05803593 0.99787211 1.94409196] w\_new= [0.05794925 0.99787188 1.94417887]

gradient= [-8.65441909e-03 -2.27349258e-05 8.67715402e-03] w = [0.05794925 0.99787188 1.94417887] w\_new= [0.05786271 0.99787165 1.94426564]

gradient= [-8.64130278e-03 -2.27043723e-05 8.66400715e-03] w = [0.05786271 0.99787165 1.94426564] w\_new= [0.05777629 0.99787143 1.94435228]

gradient= [-8.62820674e-03 -2.26738611e-05 8.65088060e-03] w = [0.05777629 0.99787143 1.94435228] w\_new= [0.05769001 0.9978712 1.94443879]

gradient= [-8.61513094e-03 -2.26433922e-05 8.63777433e-03] w = [0.05769001 0.9978712 1.94443879] w\_new= [0.05760386 0.99787097 1.94452517]

gradient= [-8.60207534e-03 -2.26129655e-05 8.62468831e-03] w = [0.05760386 0.99787097 1.94452517] w\_new= [0.05751784 0.99787075 1.94461141]

gradient= [-8.58903992e-03 -2.25825810e-05 8.61162250e-03] w = [0.05751784 0.99787075 1.94461141] w\_new= [0.05743195 0.99787052 1.94469753]

gradient= [-8.57602463e-03 -2.25522385e-05 8.59857687e-03] w = [0.05743195 0.99787052 1.94469753] w\_new= [0.05734619 0.9978703 1.94478351]

gradient= [-8.56302945e-03 -2.25219381e-05 8.58555139e-03] w = [0.05734619 0.9978703 1.94478351] w\_new= [0.05726056 0.99787007 1.94486937]

gradient= [-8.55005435e-03 -2.24916797e-05 8.57254603e-03] w = [0.05726056 0.99787007 1.94486937] w\_new= [0.05717506 0.99786985 1.9449551 ]

gradient= [-8.53709929e-03 -2.24614631e-05 8.55956075e-03] w = [0.05717506 0.99786985 1.9449551 ] w\_new= [0.05708969 0.99786962 1.94504069]

gradient= [-8.52416424e-03 -2.24312884e-05 8.54659553e-03] w = [0.05708969 0.99786962 1.94504069] w\_new= [0.05700445 0.9978694 1.94512616]

gradient= [-8.51124918e-03 -2.24011554e-05 8.53365033e-03] w = [0.05700445 0.9978694 1.94512616] w\_new= [0.05691933 0.99786917 1.94521149]

gradient= [-8.49835406e-03 -2.23710642e-05 8.52072512e-03] w = [0.05691933 0.99786917 1.94521149] w\_new= [0.05683435 0.99786895 1.9452967 ]

gradient= [-8.48547885e-03 -2.23410146e-05 8.50781987e-03] w = [0.05683435 0.99786895 1.9452967 ] w\_new= [0.05674949 0.99786873 1.94538178]

gradient= [-8.47262353e-03 -2.23110066e-05 8.49493454e-03] w = [0.05674949 0.99786873 1.94538178] w\_new= [0.05666477 0.9978685 1.94546673]

gradient= [-8.45978807e-03 -2.22810401e-05 8.48206911e-03] w = [0.05666477 0.9978685 1.94546673] w\_new= [0.05658017 0.99786828 1.94555155]

gradient= [-8.44697242e-03 -2.22511151e-05 8.46922353e-03] w = [0.05658017 0.99786828 1.94555155] w\_new= [0.0564957 0.99786806 1.94563624]

gradient= [-8.43417656e-03 -2.22212315e-05 8.45639779e-03] w = [0.0564957 0.99786806 1.94563624] w\_new= [0.05641136 0.99786784 1.94572081]

gradient= [-8.42140046e-03 -2.21913892e-05 8.44359185e-03] w = [0.05641136 0.99786784 1.94572081] w\_new= [0.05632714 0.99786761 1.94580524]

gradient= [-8.40864408e-03 -2.21615882e-05 8.43080567e-03] w = [0.05632714 0.99786761 1.94580524] w\_new= [0.05624306 0.99786739 1.94588955]

gradient= [-8.39590740e-03 -2.21318284e-05 8.41803923e-03] w = [0.05624306 0.99786739 1.94588955] w\_new= [0.0561591 0.99786717 1.94597373]

gradient= [-8.38319038e-03 -2.21021097e-05 8.40529249e-03] w = [0.0561591 0.99786717 1.94597373] w\_new= [0.05607527 0.99786695 1.94605778]

gradient= [-8.37049299e-03 -2.20724322e-05 8.39256542e-03] w = [0.05607527 0.99786695 1.94605778] w\_new= [0.05599156 0.99786673 1.94614171]

gradient= [-8.35781520e-03 -2.20427957e-05 8.37985800e-03] w = [0.05599156 0.99786673 1.94614171] w\_new= [0.05590798 0.99786651 1.94622551]

gradient= [-8.34515698e-03 -2.20132001e-05 8.36717018e-03] w = [0.05590798 0.99786651 1.94622551] w\_new= [0.05582453 0.99786629 1.94630918]

gradient= [-8.33251830e-03 -2.19836455e-05 8.35450194e-03] w = [0.05582453 0.99786629 1.94630918] w\_new= [0.05574121 0.99786607 1.94639272]

gradient= [-8.31989912e-03 -2.19541316e-05 8.34185325e-03] w = [0.05574121 0.99786607 1.94639272] w\_new= [0.05565801 0.99786585 1.94647614]

gradient= [-8.30729942e-03 -2.19246586e-05 8.32922408e-03] w = [0.05565801 0.99786585 1.94647614] w\_new= [0.05557494 0.99786563 1.94655943]

gradient= [-8.29471916e-03 -2.18952263e-05 8.31661438e-03] w = [0.05557494 0.99786563 1.94655943] w\_new= [0.05549199 0.99786541 1.9466426 ]

gradient= [-8.28215831e-03 -2.18658347e-05 8.30402415e-03] w = [0.05549199 0.99786541 1.9466426 ] w\_new= [0.05540917 0.99786519 1.94672564]

gradient= [-8.26961685e-03 -2.18364836e-05 8.29145333e-03] w = [0.05540917 0.99786519 1.94672564] w\_new= [0.05532647 0.99786497 1.94680856]

gradient= [-8.25709474e-03 -2.18071731e-05 8.27890191e-03] w = [0.05532647 0.99786497 1.94680856] w\_new= [0.0552439 0.99786476 1.94689134]

gradient= [-8.24459194e-03 -2.17779031e-05 8.26636985e-03] w = [0.0552439 0.99786476 1.94689134] w\_new= [0.05516145 0.99786454 1.94697401]

gradient= [-8.23210844e-03 -2.17486735e-05 8.25385711e-03] w = [0.05516145 0.99786454 1.94697401] w\_new= [0.05507913 0.99786432 1.94705655]

gradient= [-8.21964419e-03 -2.17194842e-05 8.24136368e-03] w = [0.05507913 0.99786432 1.94705655] w\_new= [0.05499694 0.9978641 1.94713896]

gradient= [-8.20719918e-03 -2.16903353e-05 8.22888951e-03] w = [0.05499694 0.9978641 1.94713896] w\_new= [0.05491486 0.99786389 1.94722125]

gradient= [-8.19477336e-03 -2.16612266e-05 8.21643458e-03] w = [0.05491486 0.99786389 1.94722125] w\_new= [0.05483292 0.99786367 1.94730341]

gradient= [-8.18236670e-03 -2.16321580e-05 8.20399886e-03] w = [0.05483292 0.99786367 1.94730341] w\_new= [0.05475109 0.99786345 1.94738545]

gradient= [-8.16997918e-03 -2.16031296e-05 8.19158231e-03] w = [0.05475109 0.99786345 1.94738545] w\_new= [0.05466939 0.99786324 1.94746737]

gradient= [-8.15761077e-03 -2.15741413e-05 8.17918491e-03] w = [0.05466939 0.99786324 1.94746737] w\_new= [0.05458782 0.99786302 1.94754916]

gradient= [-8.14526143e-03 -2.15451929e-05 8.16680662e-03] w = [0.05458782 0.99786302 1.94754916] w\_new= [0.05450636 0.99786281 1.94763083]

gradient= [-8.13293114e-03 -2.15162845e-05 8.15444742e-03] w = [0.05450636 0.99786281 1.94763083] w\_new= [0.05442504 0.99786259 1.94771237]

gradient= [-8.12061986e-03 -2.14874159e-05 8.14210727e-03] w = [0.05442504 0.99786259 1.94771237] w\_new= [0.05434383 0.99786238 1.94779379]

gradient= [-8.10832756e-03 -2.14585872e-05 8.12978615e-03] w = [0.05434383 0.99786238 1.94779379] w\_new= [0.05426275 0.99786216 1.94787509]

gradient= [-8.09605422e-03 -2.14297983e-05 8.11748402e-03] w = [0.05426275 0.99786216 1.94787509] w\_new= [0.05418179 0.99786195 1.94795627]

gradient= [-8.08379980e-03 -2.14010490e-05 8.10520085e-03] w = [0.05418179 0.99786195 1.94795627] w\_new= [0.05410095 0.99786173 1.94803732]

gradient= [-8.07156427e-03 -2.13723394e-05 8.09293661e-03] w = [0.05410095 0.99786173 1.94803732] w\_new= [0.05402023 0.99786152 1.94811825]

gradient= [-8.05934761e-03 -2.13436694e-05 8.08069128e-03] w = [0.05402023 0.99786152 1.94811825] w\_new= [0.05393964 0.99786131 1.94819906]

gradient= [-8.04714978e-03 -2.13150388e-05 8.06846482e-03] w = [0.05393964 0.99786131 1.94819906] w\_new= [0.05385917 0.99786109 1.94827974]

gradient= [-8.03497075e-03 -2.12864478e-05 8.05625720e-03] w = [0.05385917 0.99786109 1.94827974] w\_new= [0.05377882 0.99786088 1.9483603 ]

gradient= [-8.02281050e-03 -2.12578962e-05 8.04406839e-03] w = [0.05377882 0.99786088 1.9483603 ] w\_new= [0.05369859 0.99786067 1.94844074]

gradient= [-8.01066899e-03 -2.12293839e-05 8.03189837e-03] w = [0.05369859 0.99786067 1.94844074] w\_new= [0.05361848 0.99786046 1.94852106]

gradient= [-7.99854619e-03 -2.12009109e-05 8.01974710e-03] w = [0.05361848 0.99786046 1.94852106] w\_new= [0.0535385 0.99786024 1.94860126]

gradient= [-7.98644207e-03 -2.11724771e-05 8.00761455e-03] w = [0.0535385 0.99786024 1.94860126] w\_new= [0.05345863 0.99786003 1.94868134]

gradient= [-7.97435661e-03 -2.11440825e-05 7.99550070e-03] w = [0.05345863 0.99786003 1.94868134] w\_new= [0.05337889 0.99785982 1.94876129]

gradient= [-7.96228978e-03 -2.11157270e-05 7.98340550e-03] w = [0.05337889 0.99785982 1.94876129] w\_new= [0.05329927 0.99785961 1.94884113]

gradient= [-7.95024153e-03 -2.10874106e-05 7.97132894e-03] w = [0.05329927 0.99785961 1.94884113] w\_new= [0.05321976 0.9978594 1.94892084]

gradient= [-7.93821186e-03 -2.10591331e-05 7.95927099e-03] w = [0.05321976 0.9978594 1.94892084] w\_new= [0.05314038 0.99785919 1.94900043]

gradient= [-7.92620071e-03 -2.10308947e-05 7.94723161e-03] w = [0.05314038 0.99785919 1.94900043] w\_new= [0.05306112 0.99785898 1.9490799 ]

gradient= [-7.91420808e-03 -2.10026950e-05 7.93521077e-03] w = [0.05306112 0.99785898 1.9490799 ] w\_new= [0.05298198 0.99785877 1.94915926]

gradient= [-7.90223392e-03 -2.09745343e-05 7.92320845e-03] w = [0.05298198 0.99785877 1.94915926] w\_new= [0.05290295 0.99785856 1.94923849]

gradient= [-7.89027820e-03 -2.09464123e-05 7.91122461e-03] w = [0.05290295 0.99785856 1.94923849] w\_new= [0.05282405 0.99785835 1.9493176 ]

gradient= [-7.87834091e-03 -2.09183289e-05 7.89925923e-03] w = [0.05282405 0.99785835 1.9493176 ] w\_new= [0.05274527 0.99785814 1.94939659]

gradient= [-7.86642200e-03 -2.08902843e-05 7.88731228e-03] w = [0.05274527 0.99785814 1.94939659] w\_new= [0.0526666 0.99785793 1.94947547]

gradient= [-7.85452145e-03 -2.08622782e-05 7.87538373e-03] w = [0.0526666 0.99785793 1.94947547] w\_new= [0.05258806 0.99785772 1.94955422]

gradient= [-7.84263923e-03 -2.08343107e-05 7.86347354e-03] w = [0.05258806 0.99785772 1.94955422] w\_new= [0.05250963 0.99785751 1.94963285]

gradient= [-7.83077531e-03 -2.08063817e-05 7.85158169e-03] w = [0.05250963 0.99785751 1.94963285] w\_new= [0.05243132 0.9978573 1.94971137]

gradient= [-7.81892966e-03 -2.07784911e-05 7.83970815e-03] w = [0.05243132 0.9978573 1.94971137] w\_new= [0.05235314 0.9978571 1.94978977]

gradient= [-7.80710225e-03 -2.07506388e-05 7.82785289e-03] w = [0.05235314 0.9978571 1.94978977] w\_new= [0.05227506 0.99785689 1.94986805]

gradient= [-7.79529306e-03 -2.07228249e-05 7.81601589e-03] w = [0.05227506 0.99785689 1.94986805] w\_new= [0.05219711 0.99785668 1.94994621]

gradient= [-7.78350205e-03 -2.06950492e-05 7.80419710e-03] w = [0.05219711 0.99785668 1.94994621] w\_new= [0.05211928 0.99785648 1.95002425]

gradient= [-7.77172920e-03 -2.06673117e-05 7.79239651e-03] w = [0.05211928 0.99785648 1.95002425] w\_new= [0.05204156 0.99785627 1.95010217]

gradient= [-7.75997448e-03 -2.06396123e-05 7.78061409e-03] w = [0.05204156 0.99785627 1.95010217] w\_new= [0.05196396 0.99785606 1.95017998]

gradient= [-7.74823785e-03 -2.06119511e-05 7.76884980e-03] w = [0.05196396 0.99785606 1.95017998] w\_new= [0.05188648 0.99785586 1.95025767]

gradient= [-7.73651929e-03 -2.05843278e-05 7.75710362e-03] w = [0.05188648 0.99785586 1.95025767] w\_new= [0.05180911 0.99785565 1.95033524]

gradient= [-7.72481877e-03 -2.05567426e-05 7.74537551e-03] w = [0.05180911 0.99785565 1.95033524] w\_new= [0.05173186 0.99785544 1.95041269]

gradient= [-7.71313626e-03 -2.05291952e-05 7.73366546e-03] w = [0.05173186 0.99785544 1.95041269] w\_new= [0.05165473 0.99785524 1.95049003]

gradient= [-7.70147174e-03 -2.05016857e-05 7.72197342e-03] w = [0.05165473 0.99785524 1.95049003] w\_new= [0.05157772 0.99785503 1.95056725]

gradient= [-7.68982517e-03 -2.04742140e-05 7.71029938e-03] w = [0.05157772 0.99785503 1.95056725] w\_new= [0.05150082 0.99785483 1.95064435]

gradient= [-7.67819652e-03 -2.04467801e-05 7.69864330e-03] w = [0.05150082 0.99785483 1.95064435] w\_new= [0.05142404 0.99785463 1.95072134]

gradient= [-7.66658578e-03 -2.04193838e-05 7.68700516e-03] w = [0.05142404 0.99785463 1.95072134] w\_new= [0.05134737 0.99785442 1.95079821]

gradient= [-7.65499290e-03 -2.03920252e-05 7.67538492e-03] w = [0.05134737 0.99785442 1.95079821] w\_new= [0.05127082 0.99785422 1.95087496]

gradient= [-7.64341786e-03 -2.03647041e-05 7.66378257e-03] w = [0.05127082 0.99785422 1.95087496] w\_new= [0.05119439 0.99785401 1.9509516 ]

gradient= [-7.63186064e-03 -2.03374206e-05 7.65219806e-03] w = [0.05119439 0.99785401 1.9509516 ] w\_new= [0.05111807 0.99785381 1.95102812]

gradient= [-7.62032120e-03 -2.03101746e-05 7.64063137e-03] w = [0.05111807 0.99785381 1.95102812] w\_new= [0.05104187 0.99785361 1.95110453]

gradient= [-7.60879951e-03 -2.02829659e-05 7.62908248e-03] w = [0.05104187 0.99785361 1.95110453] w\_new= [0.05096578 0.9978534 1.95118082]

gradient= [-7.59729555e-03 -2.02557946e-05 7.61755135e-03] w = [0.05096578 0.9978534 1.95118082] w\_new= [0.0508898 0.9978532 1.95125699]

gradient= [-7.58580929e-03 -2.02286607e-05 7.60603795e-03] w = [0.0508898 0.9978532 1.95125699] w\_new= [0.05081395 0.997853 1.95133305]

gradient= [-7.57434071e-03 -2.02015639e-05 7.59454227e-03] w = [0.05081395 0.997853 1.95133305] w\_new= [0.0507382 0.9978528 1.951409 ]

gradient= [-7.56288976e-03 -2.01745044e-05 7.58306427e-03] w = [0.0507382 0.9978528 1.951409 ] w\_new= [0.05066257 0.9978526 1.95148483]

gradient= [-7.55145643e-03 -2.01474820e-05 7.57160391e-03] w = [0.05066257 0.9978526 1.95148483] w\_new= [0.05058706 0.99785239 1.95156055]

gradient= [-7.54004069e-03 -2.01204967e-05 7.56016119e-03] w = [0.05058706 0.99785239 1.95156055] w\_new= [0.05051166 0.99785219 1.95163615]

gradient= [-7.52864251e-03 -2.00935484e-05 7.54873606e-03] w = [0.05051166 0.99785219 1.95163615] w\_new= [0.05043637 0.99785199 1.95171163]

gradient= [-7.51726186e-03 -2.00666371e-05 7.53732849e-03] w = [0.05043637 0.99785199 1.95171163] w\_new= [0.0503612 0.99785179 1.95178701]

gradient= [-7.50589871e-03 -2.00397627e-05 7.52593847e-03] w = [0.0503612 0.99785179 1.95178701] w\_new= [0.05028614 0.99785159 1.95186227]

gradient= [-7.49455304e-03 -2.00129252e-05 7.51456596e-03] w = [0.05028614 0.99785159 1.95186227] w\_new= [0.0502112 0.99785139 1.95193741]

gradient= [-7.48322481e-03 -1.99861245e-05 7.50321094e-03] w = [0.0502112 0.99785139 1.95193741] w\_new= [0.05013636 0.99785119 1.95201245]

gradient= [-7.47191401e-03 -1.99593605e-05 7.49187337e-03] w = [0.05013636 0.99785119 1.95201245] w\_new= [0.05006164 0.99785099 1.95208736]

gradient= [-7.46062060e-03 -1.99326333e-05 7.48055323e-03] w = [0.05006164 0.99785099 1.95208736] w\_new= [0.04998704 0.99785079 1.95216217]

gradient= [-7.44934455e-03 -1.99059426e-05 7.46925050e-03] w = [0.04998704 0.99785079 1.95216217] w\_new= [0.04991254 0.99785059 1.95223686]

gradient= [-7.43808584e-03 -1.98792886e-05 7.45796513e-03] w = [0.04991254 0.99785059 1.95223686] w\_new= [0.04983816 0.99785039 1.95231144]

gradient= [-7.42684445e-03 -1.98526712e-05 7.44669712e-03] w = [0.04983816 0.99785039 1.95231144] w\_new= [0.0497639 0.9978502 1.95238591]

gradient= [-7.41562033e-03 -1.98260902e-05 7.43544642e-03] w = [0.0497639 0.9978502 1.95238591] w\_new= [0.04968974 0.99785 1.95246026]

gradient= [-7.40441347e-03 -1.97995456e-05 7.42421302e-03] w = [0.04968974 0.99785 1.95246026] w\_new= [0.0496157 0.9978498 1.95253451]

gradient= [-7.39322384e-03 -1.97730375e-05 7.41299688e-03] w = [0.0496157 0.9978498 1.95253451] w\_new= [0.04954176 0.9978496 1.95260864]

gradient= [-7.38205141e-03 -1.97465656e-05 7.40179797e-03] w = [0.04954176 0.9978496 1.95260864] w\_new= [0.04946794 0.9978494 1.95268265]

gradient= [-7.37089615e-03 -1.97201300e-05 7.39061628e-03] w = [0.04946794 0.9978494 1.95268265] w\_new= [0.04939423 0.99784921 1.95275656]

gradient= [-7.35975804e-03 -1.96937307e-05 7.37945177e-03] w = [0.04939423 0.99784921 1.95275656] w\_new= [0.04932064 0.99784901 1.95283035]

gradient= [-7.34863704e-03 -1.96673675e-05 7.36830441e-03] w = [0.04932064 0.99784901 1.95283035] w\_new= [0.04924715 0.99784881 1.95290404]

gradient= [-7.33753314e-03 -1.96410404e-05 7.35717418e-03] w = [0.04924715 0.99784881 1.95290404] w\_new= [0.04917377 0.99784862 1.95297761]

gradient= [-7.32644631e-03 -1.96147494e-05 7.34606106e-03] w = [0.04917377 0.99784862 1.95297761] w\_new= [0.04910051 0.99784842 1.95305107]

gradient= [-7.31537651e-03 -1.95884944e-05 7.33496500e-03] w = [0.04910051 0.99784842 1.95305107] w\_new= [0.04902736 0.99784822 1.95312442]

gradient= [-7.30432372e-03 -1.95622754e-05 7.32388599e-03] w = [0.04902736 0.99784822 1.95312442] w\_new= [0.04895431 0.99784803 1.95319766]

gradient= [-7.29328791e-03 -1.95360922e-05 7.31282401e-03] w = [0.04895431 0.99784803 1.95319766] w\_new= [0.04888138 0.99784783 1.95327079]

gradient= [-7.28226907e-03 -1.95099449e-05 7.30177901e-03] w = [0.04888138 0.99784783 1.95327079] w\_new= [0.04880856 0.99784764 1.9533438 ]

gradient= [-7.27126715e-03 -1.94838334e-05 7.29075098e-03] w = [0.04880856 0.99784764 1.9533438 ] w\_new= [0.04873584 0.99784744 1.95341671]

gradient= [-7.26028213e-03 -1.94577577e-05 7.27973989e-03] w = [0.04873584 0.99784744 1.95341671] w\_new= [0.04866324 0.99784725 1.95348951]

gradient= [-7.24931399e-03 -1.94317176e-05 7.26874571e-03] w = [0.04866324 0.99784725 1.95348951] w\_new= [0.04859075 0.99784706 1.9535622 ]

gradient= [-7.23836270e-03 -1.94057132e-05 7.25776842e-03] w = [0.04859075 0.99784706 1.9535622 ] w\_new= [0.04851836 0.99784686 1.95363477]

gradient= [-7.22742824e-03 -1.93797444e-05 7.24680798e-03] w = [0.04851836 0.99784686 1.95363477] w\_new= [0.04844609 0.99784667 1.95370724]

gradient= [-7.21651057e-03 -1.93538111e-05 7.23586438e-03] w = [0.04844609 0.99784667 1.95370724] w\_new= [0.04837393 0.99784647 1.9537796 ]

gradient= [-7.20560967e-03 -1.93279132e-05 7.22493758e-03] w = [0.04837393 0.99784647 1.9537796 ] w\_new= [0.04830187 0.99784628 1.95385185]

gradient= [-7.19472551e-03 -1.93020509e-05 7.21402756e-03] w = [0.04830187 0.99784628 1.95385185] w\_new= [0.04822992 0.99784609 1.95392399]

gradient= [-7.18385807e-03 -1.92762239e-05 7.20313429e-03] w = [0.04822992 0.99784609 1.95392399] w\_new= [0.04815808 0.99784589 1.95399602]

gradient= [-7.17300732e-03 -1.92504322e-05 7.19225775e-03] w = [0.04815808 0.99784589 1.95399602] w\_new= [0.04808635 0.9978457 1.95406794]

gradient= [-7.16217323e-03 -1.92246758e-05 7.18139791e-03] w = [0.04808635 0.9978457 1.95406794] w\_new= [0.04801473 0.99784551 1.95413976]

gradient= [-7.15135578e-03 -1.91989546e-05 7.17055474e-03] w = [0.04801473 0.99784551 1.95413976] w\_new= [0.04794322 0.99784532 1.95421146]

gradient= [-7.14055495e-03 -1.91732686e-05 7.15972821e-03] w = [0.04794322 0.99784532 1.95421146] w\_new= [0.04787181 0.99784513 1.95428306]

gradient= [-7.12977069e-03 -1.91476177e-05 7.14891831e-03] w = [0.04787181 0.99784513 1.95428306] w\_new= [0.04780052 0.99784493 1.95435455]

gradient= [-7.11900300e-03 -1.91220019e-05 7.13812500e-03] w = [0.04780052 0.99784493 1.95435455] w\_new= [0.04772933 0.99784474 1.95442593]

gradient= [-7.10825183e-03 -1.90964211e-05 7.12734826e-03] w = [0.04772933 0.99784474 1.95442593] w\_new= [0.04765824 0.99784455 1.9544972 ]

gradient= [-7.09751718e-03 -1.90708753e-05 7.11658805e-03] w = [0.04765824 0.99784455 1.9544972 ] w\_new= [0.04758727 0.99784436 1.95456837]

gradient= [-7.08679900e-03 -1.90453643e-05 7.10584437e-03] w = [0.04758727 0.99784436 1.95456837] w\_new= [0.0475164 0.99784417 1.95463943]

gradient= [-7.07609728e-03 -1.90198883e-05 7.09511717e-03] w = [0.0475164 0.99784417 1.95463943] w\_new= [0.04744564 0.99784398 1.95471038]

gradient= [-7.06541198e-03 -1.89944471e-05 7.08440643e-03] w = [0.04744564 0.99784398 1.95471038] w\_new= [0.04737498 0.99784379 1.95478122]

gradient= [-7.05474309e-03 -1.89690406e-05 7.07371213e-03] w = [0.04737498 0.99784379 1.95478122] w\_new= [0.04730444 0.9978436 1.95485196]

gradient= [-7.04409057e-03 -1.89436688e-05 7.06303424e-03] w = [0.04730444 0.9978436 1.95485196] w\_new= [0.047234 0.99784341 1.95492259]

gradient= [-7.03345441e-03 -1.89183317e-05 7.05237274e-03] w = [0.047234 0.99784341 1.95492259] w\_new= [0.04716366 0.99784322 1.95499312]

gradient= [-7.02283457e-03 -1.88930293e-05 7.04172760e-03] w = [0.04716366 0.99784322 1.95499312] w\_new= [0.04709343 0.99784303 1.95506353]

gradient= [-7.01223102e-03 -1.88677613e-05 7.03109878e-03] w = [0.04709343 0.99784303 1.95506353] w\_new= [0.04702331 0.99784285 1.95513384]

gradient= [-7.00164375e-03 -1.88425279e-05 7.02048628e-03] w = [0.04702331 0.99784285 1.95513384] w\_new= [0.04695329 0.99784266 1.95520405]

gradient= [-6.99107273e-03 -1.88173290e-05 7.00989006e-03] w = [0.04695329 0.99784266 1.95520405] w\_new= [0.04688338 0.99784247 1.95527415]

gradient= [-6.98051792e-03 -1.87921644e-05 6.99931009e-03] w = [0.04688338 0.99784247 1.95527415] w\_new= [0.04681358 0.99784228 1.95534414]

gradient= [-6.96997932e-03 -1.87670343e-05 6.98874635e-03] w = [0.04681358 0.99784228 1.95534414] w\_new= [0.04674388 0.99784209 1.95541403]

gradient= [-6.95945688e-03 -1.87419384e-05 6.97819882e-03] w = [0.04674388 0.99784209 1.95541403] w\_new= [0.04667428 0.99784191 1.95548381]

gradient= [-6.94895059e-03 -1.87168768e-05 6.96766746e-03] w = [0.04667428 0.99784191 1.95548381] w\_new= [0.04660479 0.99784172 1.95555349]

gradient= [-6.93846041e-03 -1.86918494e-05 6.95715226e-03] w = [0.04660479 0.99784172 1.95555349] w\_new= [0.04653541 0.99784153 1.95562306]

gradient= [-6.92798633e-03 -1.86668561e-05 6.94665319e-03] w = [0.04653541 0.99784153 1.95562306] w\_new= [0.04646613 0.99784134 1.95569253]

gradient= [-6.91752832e-03 -1.86418970e-05 6.93617022e-03] w = [0.04646613 0.99784134 1.95569253] w\_new= [0.04639695 0.99784116 1.95576189]

gradient= [-6.90708635e-03 -1.86169719e-05 6.92570332e-03] w = [0.04639695 0.99784116 1.95576189] w\_new= [0.04632788 0.99784097 1.95583114]

gradient= [-6.89666040e-03 -1.85920809e-05 6.91525248e-03] w = [0.04632788 0.99784097 1.95583114] w\_new= [0.04625892 0.99784079 1.9559003 ]

gradient= [-6.88625044e-03 -1.85672238e-05 6.90481766e-03] w = [0.04625892 0.99784079 1.9559003 ] w\_new= [0.04619005 0.9978406 1.95596934]

gradient= [-6.87585645e-03 -1.85424006e-05 6.89439885e-03] w = [0.04619005 0.9978406 1.95596934] w\_new= [0.0461213 0.99784042 1.95603829]

gradient= [-6.86547839e-03 -1.85176113e-05 6.88399601e-03] w = [0.0461213 0.99784042 1.95603829] w\_new= [0.04605264 0.99784023 1.95610713]

gradient= [-6.85511626e-03 -1.84928558e-05 6.87360911e-03] w = [0.04605264 0.99784023 1.95610713] w\_new= [0.04598409 0.99784005 1.95617586]

gradient= [-6.84477001e-03 -1.84681340e-05 6.86323815e-03] w = [0.04598409 0.99784005 1.95617586] w\_new= [0.04591564 0.99783986 1.9562445 ]

gradient= [-6.83443964e-03 -1.84434460e-05 6.85288308e-03] w = [0.04591564 0.99783986 1.9562445 ] w\_new= [0.0458473 0.99783968 1.95631303]

gradient= [-6.82412510e-03 -1.84187916e-05 6.84254389e-03] w = [0.0458473 0.99783968 1.95631303] w\_new= [0.04577906 0.99783949 1.95638145]

gradient= [-6.81382638e-03 -1.83941709e-05 6.83222055e-03] w = [0.04577906 0.99783949 1.95638145] w\_new= [0.04571092 0.99783931 1.95644977]

gradient= [-6.80354345e-03 -1.83695837e-05 6.82191303e-03] w = [0.04571092 0.99783931 1.95644977] w\_new= [0.04564288 0.99783912 1.95651799]

gradient= [-6.79327629e-03 -1.83450301e-05 6.81162132e-03] w = [0.04564288 0.99783912 1.95651799] w\_new= [0.04557495 0.99783894 1.95658611]

gradient= [-6.78302487e-03 -1.83205099e-05 6.80134538e-03] w = [0.04557495 0.99783894 1.95658611] w\_new= [0.04550712 0.99783876 1.95665412]

gradient= [-6.77278916e-03 -1.82960231e-05 6.79108518e-03] w = [0.04550712 0.99783876 1.95665412] w\_new= [0.04543939 0.99783857 1.95672203]

gradient= [-6.76256915e-03 -1.82715697e-05 6.78084072e-03] w = [0.04543939 0.99783857 1.95672203] w\_new= [0.04537177 0.99783839 1.95678984]

gradient= [-6.75236480e-03 -1.82471497e-05 6.77061195e-03] w = [0.04537177 0.99783839 1.95678984] w\_new= [0.04530424 0.99783821 1.95685755]

gradient= [-6.74217610e-03 -1.82227629e-05 6.76039886e-03] w = [0.04530424 0.99783821 1.95685755] w\_new= [0.04523682 0.99783803 1.95692515]

gradient= [-6.73200301e-03 -1.81984093e-05 6.75020142e-03] w = [0.04523682 0.99783803 1.95692515] w\_new= [0.0451695 0.99783785 1.95699265]

gradient= [-6.72184552e-03 -1.81740889e-05 6.74001960e-03] w = [0.0451695 0.99783785 1.95699265] w\_new= [0.04510228 0.99783766 1.95706005]

gradient= [-6.71170359e-03 -1.81498017e-05 6.72985339e-03] w = [0.04510228 0.99783766 1.95706005] w\_new= [0.04503517 0.99783748 1.95712735]

gradient= [-6.70157721e-03 -1.81255475e-05 6.71970276e-03] w = [0.04503517 0.99783748 1.95712735] w\_new= [0.04496815 0.9978373 1.95719455]

gradient= [-6.69146635e-03 -1.81013264e-05 6.70956767e-03] w = [0.04496815 0.9978373 1.95719455] w\_new= [0.04490124 0.99783712 1.95726164]

gradient= [-6.68137098e-03 -1.80771383e-05 6.69944812e-03] w = [0.04490124 0.99783712 1.95726164] w\_new= [0.04483442 0.99783694 1.95732864]

gradient= [-6.67129108e-03 -1.80529831e-05 6.68934406e-03] w = [0.04483442 0.99783694 1.95732864] w\_new= [0.04476771 0.99783676 1.95739553]

gradient= [-6.66122663e-03 -1.80288608e-05 6.67925549e-03] w = [0.04476771 0.99783676 1.95739553] w\_new= [0.0447011 0.99783658 1.95746233]

gradient= [-6.65117760e-03 -1.80047713e-05 6.66918237e-03] w = [0.0447011 0.99783658 1.95746233] w\_new= [0.04463458 0.9978364 1.95752902]

gradient= [-6.64114397e-03 -1.79807147e-05 6.65912468e-03] w = [0.04463458 0.9978364 1.95752902] w\_new= [0.04456817 0.99783622 1.95759561]

gradient= [-6.63112571e-03 -1.79566908e-05 6.64908240e-03] w = [0.04456817 0.99783622 1.95759561] w\_new= [0.04450186 0.99783604 1.9576621 ]

gradient= [-6.62112280e-03 -1.79326996e-05 6.63905550e-03] w = [0.04450186 0.99783604 1.9576621 ] w\_new= [0.04443565 0.99783586 1.95772849]

gradient= [-6.61113521e-03 -1.79087410e-05 6.62904395e-03] w = [0.04443565 0.99783586 1.95772849] w\_new= [0.04436954 0.99783568 1.95779478]

gradient= [-6.60116292e-03 -1.78848151e-05 6.61904774e-03] w = [0.04436954 0.99783568 1.95779478] w\_new= [0.04430353 0.9978355 1.95786097]

gradient= [-6.59120592e-03 -1.78609217e-05 6.60906684e-03] w = [0.04430353 0.9978355 1.95786097] w\_new= [0.04423762 0.99783532 1.95792706]

gradient= [-6.58126416e-03 -1.78370608e-05 6.59910122e-03] w = [0.04423762 0.99783532 1.95792706] w\_new= [0.0441718 0.99783514 1.95799305]

gradient= [-6.57133763e-03 -1.78132324e-05 6.58915086e-03] w = [0.0441718 0.99783514 1.95799305] w\_new= [0.04410609 0.99783497 1.95805894]

gradient= [-6.56142630e-03 -1.77894365e-05 6.57921574e-03] w = [0.04410609 0.99783497 1.95805894] w\_new= [0.04404048 0.99783479 1.95812474]

gradient= [-6.55153016e-03 -1.77656729e-05 6.56929583e-03] w = [0.04404048 0.99783479 1.95812474] w\_new= [0.04397496 0.99783461 1.95819043]

gradient= [-6.54164917e-03 -1.77419416e-05 6.55939111e-03] w = [0.04397496 0.99783461 1.95819043] w\_new= [0.04390954 0.99783443 1.95825602]

gradient= [-6.53178332e-03 -1.77182426e-05 6.54950156e-03] w = [0.04390954 0.99783443 1.95825602] w\_new= [0.04384423 0.99783426 1.95832152]

gradient= [-6.52193257e-03 -1.76945758e-05 6.53962715e-03] w = [0.04384423 0.99783426 1.95832152] w\_new= [0.04377901 0.99783408 1.95838691]

gradient= [-6.51209691e-03 -1.76709412e-05 6.52976785e-03] w = [0.04377901 0.99783408 1.95838691] w\_new= [0.04371389 0.9978339 1.95845221]

gradient= [-6.50227631e-03 -1.76473388e-05 6.51992364e-03] w = [0.04371389 0.9978339 1.95845221] w\_new= [0.04364886 0.99783373 1.95851741]

gradient= [-6.49247074e-03 -1.76237685e-05 6.51009451e-03] w = [0.04364886 0.99783373 1.95851741] w\_new= [0.04358394 0.99783355 1.95858251]

gradient= [-6.48268019e-03 -1.76002302e-05 6.50028042e-03] w = [0.04358394 0.99783355 1.95858251] w\_new= [0.04351911 0.99783337 1.95864751]

gradient= [-6.47290463e-03 -1.75767239e-05 6.49048136e-03] w = [0.04351911 0.99783337 1.95864751] w\_new= [0.04345438 0.9978332 1.95871242]

gradient= [-6.46314404e-03 -1.75532495e-05 6.48069729e-03] w = [0.04345438 0.9978332 1.95871242] w\_new= [0.04338975 0.99783302 1.95877723]

gradient= [-6.45339839e-03 -1.75298071e-05 6.47092820e-03] w = [0.04338975 0.99783302 1.95877723] w\_new= [0.04332522 0.99783285 1.95884194]

gradient= [-6.44366766e-03 -1.75063965e-05 6.46117405e-03] w = [0.04332522 0.99783285 1.95884194] w\_new= [0.04326078 0.99783267 1.95890655]

gradient= [-6.43395182e-03 -1.74830178e-05 6.45143484e-03] w = [0.04326078 0.99783267 1.95890655] w\_new= [0.04319644 0.9978325 1.95897106]

gradient= [-6.42425086e-03 -1.74596708e-05 6.44171053e-03] w = [0.04319644 0.9978325 1.95897106] w\_new= [0.0431322 0.99783232 1.95903548]

gradient= [-6.41456475e-03 -1.74363555e-05 6.43200110e-03] w = [0.0431322 0.99783232 1.95903548] w\_new= [0.04306805 0.99783215 1.9590998 ]

gradient= [-6.40489346e-03 -1.74130720e-05 6.42230653e-03] w = [0.04306805 0.99783215 1.9590998 ] w\_new= [0.043004 0.99783197 1.95916402]

gradient= [-6.39523697e-03 -1.73898200e-05 6.41262679e-03] w = [0.043004 0.99783197 1.95916402] w\_new= [0.04294005 0.9978318 1.95922815]

gradient= [-6.38559527e-03 -1.73665997e-05 6.40296187e-03] w = [0.04294005 0.9978318 1.95922815] w\_new= [0.0428762 0.99783163 1.95929218]

gradient= [-6.37596831e-03 -1.73434108e-05 6.39331173e-03] w = [0.0428762 0.99783163 1.95929218] w\_new= [0.04281244 0.99783145 1.95935611]

gradient= [-6.36635610e-03 -1.73202535e-05 6.38367635e-03] w = [0.04281244 0.99783145 1.95935611] w\_new= [0.04274877 0.99783128 1.95941995]

gradient= [-6.35675859e-03 -1.72971277e-05 6.37405572e-03] w = [0.04274877 0.99783128 1.95941995] w\_new= [0.0426852 0.99783111 1.95948369]

gradient= [-6.34717577e-03 -1.72740332e-05 6.36444980e-03] w = [0.0426852 0.99783111 1.95948369] w\_new= [0.04262173 0.99783093 1.95954733]

gradient= [-6.33760761e-03 -1.72509701e-05 6.35485858e-03] w = [0.04262173 0.99783093 1.95954733] w\_new= [0.04255836 0.99783076 1.95961088]

gradient= [-6.32805409e-03 -1.72279383e-05 6.34528203e-03] w = [0.04255836 0.99783076 1.95961088] w\_new= [0.04249508 0.99783059 1.95967433]

gradient= [-6.31851518e-03 -1.72049378e-05 6.33572012e-03] w = [0.04249508 0.99783059 1.95967433] w\_new= [0.04243189 0.99783042 1.95973769]

gradient= [-6.30899088e-03 -1.71819685e-05 6.32617285e-03] w = [0.04243189 0.99783042 1.95973769] w\_new= [0.0423688 0.99783025 1.95980095]

gradient= [-6.29948114e-03 -1.71590304e-05 6.31664017e-03] w = [0.0423688 0.99783025 1.95980095] w\_new= [0.04230581 0.99783007 1.95986412]

gradient= [-6.28998595e-03 -1.71361235e-05 6.30712207e-03] w = [0.04230581 0.99783007 1.95986412] w\_new= [0.04224291 0.9978299 1.95992719]

gradient= [-6.28050529e-03 -1.71132476e-05 6.29761854e-03] w = [0.04224291 0.9978299 1.95992719] w\_new= [0.0421801 0.99782973 1.95999017]

gradient= [-6.27103913e-03 -1.70904028e-05 6.28812953e-03] w = [0.0421801 0.99782973 1.95999017] w\_new= [0.04211739 0.99782956 1.96005305]

gradient= [-6.26158745e-03 -1.70675889e-05 6.27865504e-03] w = [0.04211739 0.99782956 1.96005305] w\_new= [0.04205477 0.99782939 1.96011584]

gradient= [-6.25215022e-03 -1.70448061e-05 6.26919503e-03] w = [0.04205477 0.99782939 1.96011584] w\_new= [0.04199225 0.99782922 1.96017853]

gradient= [-6.24272743e-03 -1.70220541e-05 6.25974949e-03] w = [0.04199225 0.99782922 1.96017853] w\_new= [0.04192983 0.99782905 1.96024112]

gradient= [-6.23331906e-03 -1.69993330e-05 6.25031839e-03] w = [0.04192983 0.99782905 1.96024112] w\_new= [0.04186749 0.99782888 1.96030363]

gradient= [-6.22392507e-03 -1.69766428e-05 6.24090171e-03] w = [0.04186749 0.99782888 1.96030363] w\_new= [0.04180525 0.99782871 1.96036604]

gradient= [-6.21454544e-03 -1.69539833e-05 6.23149943e-03] w = [0.04180525 0.99782871 1.96036604] w\_new= [0.04174311 0.99782854 1.96042835]

gradient= [-6.20518017e-03 -1.69313545e-05 6.22211152e-03] w = [0.04174311 0.99782854 1.96042835] w\_new= [0.04168106 0.99782837 1.96049057]

gradient= [-6.19582921e-03 -1.69087565e-05 6.21273797e-03] w = [0.04168106 0.99782837 1.96049057] w\_new= [0.0416191 0.9978282 1.9605527]

gradient= [-6.18649255e-03 -1.68861891e-05 6.20337874e-03] w = [0.0416191 0.9978282 1.9605527] w\_new= [0.04155723 0.99782803 1.96061473]

gradient= [-6.17717017e-03 -1.68636523e-05 6.19403382e-03] w = [0.04155723 0.99782803 1.96061473] w\_new= [0.04149546 0.99782786 1.96067667]

gradient= [-6.16786204e-03 -1.68411460e-05 6.18470319e-03] w = [0.04149546 0.99782786 1.96067667] w\_new= [0.04143378 0.9978277 1.96073852]

gradient= [-6.15856814e-03 -1.68186703e-05 6.17538681e-03] w = [0.04143378 0.9978277 1.96073852] w\_new= [0.0413722 0.99782753 1.96080028]

gradient= [-6.14928845e-03 -1.67962250e-05 6.16608468e-03] w = [0.0413722 0.99782753 1.96080028] w\_new= [0.0413107 0.99782736 1.96086194]

gradient= [-6.14002295e-03 -1.67738102e-05 6.15679676e-03] w = [0.0413107 0.99782736 1.96086194] w\_new= [0.0412493 0.99782719 1.9609235 ]

gradient= [-6.13077162e-03 -1.67514258e-05 6.14752304e-03] w = [0.0412493 0.99782719 1.9609235 ] w\_new= [0.041188 0.99782702 1.96098498]

gradient= [-6.12153442e-03 -1.67290717e-05 6.13826349e-03] w = [0.041188 0.99782702 1.96098498] w\_new= [0.04112678 0.99782686 1.96104636]

gradient= [-6.11231135e-03 -1.67067479e-05 6.12901810e-03] w = [0.04112678 0.99782686 1.96104636] w\_new= [0.04106566 0.99782669 1.96110765]

gradient= [-6.10310237e-03 -1.66844543e-05 6.11978683e-03] w = [0.04106566 0.99782669 1.96110765] w\_new= [0.04100463 0.99782652 1.96116885]

gradient= [-6.09390747e-03 -1.66621910e-05 6.11056966e-03] w = [0.04100463 0.99782652 1.96116885] w\_new= [0.04094369 0.99782636 1.96122996]

gradient= [-6.08472662e-03 -1.66399578e-05 6.10136658e-03] w = [0.04094369 0.99782636 1.96122996] w\_new= [0.04088284 0.99782619 1.96129097]

gradient= [-6.07555981e-03 -1.66177548e-05 6.09217756e-03] w = [0.04088284 0.99782619 1.96129097] w\_new= [0.04082208 0.99782602 1.96135189]

gradient= [-6.06640700e-03 -1.65955818e-05 6.08300259e-03] w = [0.04082208 0.99782602 1.96135189] w\_new= [0.04076142 0.99782586 1.96141272]

gradient= [-6.05726819e-03 -1.65734389e-05 6.07384163e-03] w = [0.04076142 0.99782586 1.96141272] w\_new= [0.04070085 0.99782569 1.96147346]

gradient= [-6.04814333e-03 -1.65513260e-05 6.06469466e-03] w = [0.04070085 0.99782569 1.96147346] w\_new= [0.04064037 0.99782553 1.96153411]

gradient= [-6.03903243e-03 -1.65292430e-05 6.05556167e-03] w = [0.04064037 0.99782553 1.96153411] w\_new= [0.04057998 0.99782536 1.96159466]

gradient= [-6.02993544e-03 -1.65071899e-05 6.04644263e-03] w = [0.04057998 0.99782536 1.96159466] w\_new= [0.04051968 0.9978252 1.96165513]

gradient= [-6.02085235e-03 -1.64851667e-05 6.03733752e-03] w = [0.04051968 0.9978252 1.96165513] w\_new= [0.04045947 0.99782503 1.9617155 ]

gradient= [-6.01178315e-03 -1.64631733e-05 6.02824632e-03] w = [0.04045947 0.99782503 1.9617155 ] w\_new= [0.04039935 0.99782487 1.96177578]

gradient= [-6.00272779e-03 -1.64412098e-05 6.01916900e-03] w = [0.04039935 0.99782487 1.96177578] w\_new= [0.04033932 0.9978247 1.96183597]

gradient= [-5.99368628e-03 -1.64192759e-05 6.01010555e-03] w = [0.04033932 0.9978247 1.96183597] w\_new= [0.04027939 0.99782454 1.96189608]

gradient= [-5.98465857e-03 -1.63973717e-05 6.00105595e-03] w = [0.04027939 0.99782454 1.96189608] w\_new= [0.04021954 0.99782437 1.96195609]

gradient= [-5.97564466e-03 -1.63754972e-05 5.99202016e-03] w = [0.04021954 0.99782437 1.96195609] w\_new= [0.04015978 0.99782421 1.96201601]

gradient= [-5.96664452e-03 -1.63536524e-05 5.98299817e-03] w = [0.04015978 0.99782421 1.96201601] w\_new= [0.04010012 0.99782405 1.96207584]

gradient= [-5.95765812e-03 -1.63318370e-05 5.97398996e-03] w = [0.04010012 0.99782405 1.96207584] w\_new= [0.04004054 0.99782388 1.96213558]

gradient= [-5.94868546e-03 -1.63100512e-05 5.96499551e-03] w = [0.04004054 0.99782388 1.96213558] w\_new= [0.03998105 0.99782372 1.96219523]

gradient= [-5.93972649e-03 -1.62882949e-05 5.95601479e-03] w = [0.03998105 0.99782372 1.96219523] w\_new= [0.03992166 0.99782356 1.96225479]

gradient= [-5.93078122e-03 -1.62665681e-05 5.94704778e-03] w = [0.03992166 0.99782356 1.96225479] w\_new= [0.03986235 0.9978234 1.96231426]

gradient= [-5.92184960e-03 -1.62448706e-05 5.93809447e-03] w = [0.03986235 0.9978234 1.96231426] w\_new= [0.03980313 0.99782323 1.96237364]

gradient= [-5.91293162e-03 -1.62232025e-05 5.92915483e-03] w = [0.03980313 0.99782323 1.96237364] w\_new= [0.039744 0.99782307 1.96243293]

gradient= [-5.90402727e-03 -1.62015637e-05 5.92022883e-03] w = [0.039744 0.99782307 1.96243293] w\_new= [0.03968496 0.99782291 1.96249213]

gradient= [-5.89513651e-03 -1.61799542e-05 5.91131646e-03] w = [0.03968496 0.99782291 1.96249213] w\_new= [0.03962601 0.99782275 1.96255124]

gradient= [-5.88625933e-03 -1.61583739e-05 5.90241770e-03] w = [0.03962601 0.99782275 1.96255124] w\_new= [0.03956715 0.99782258 1.96261027]

gradient= [-5.87739570e-03 -1.61368228e-05 5.89353252e-03] w = [0.03956715 0.99782258 1.96261027] w\_new= [0.03950837 0.99782242 1.9626692 ]

gradient= [-5.86854561e-03 -1.61153009e-05 5.88466091e-03] w = [0.03950837 0.99782242 1.9626692 ] w\_new= [0.03944969 0.99782226 1.96272805]

gradient= [-5.85970903e-03 -1.60938080e-05 5.87580284e-03] w = [0.03944969 0.99782226 1.96272805] w\_new= [0.03939109 0.9978221 1.96278681]

gradient= [-5.85088594e-03 -1.60723443e-05 5.86695829e-03] w = [0.03939109 0.9978221 1.96278681] w\_new= [0.03933258 0.99782194 1.96284548]

gradient= [-5.84207632e-03 -1.60509095e-05 5.85812723e-03] w = [0.03933258 0.99782194 1.96284548] w\_new= [0.03927416 0.99782178 1.96290406]

gradient= [-5.83328016e-03 -1.60295038e-05 5.84930966e-03] w = [0.03927416 0.99782178 1.96290406] w\_new= [0.03921583 0.99782162 1.96296255]

gradient= [-5.82449742e-03 -1.60081270e-05 5.84050555e-03] w = [0.03921583 0.99782162 1.96296255] w\_new= [0.03915758 0.99782146 1.96302096]

gradient= [-5.81572809e-03 -1.59867791e-05 5.83171487e-03] w = [0.03915758 0.99782146 1.96302096] w\_new= [0.03909943 0.9978213 1.96307927]

gradient= [-5.80697214e-03 -1.59654600e-05 5.82293760e-03] w = [0.03909943 0.9978213 1.96307927] w\_new= [0.03904136 0.99782114 1.9631375 ]

gradient= [-5.79822956e-03 -1.59441698e-05 5.81417373e-03] w = [0.03904136 0.99782114 1.9631375 ] w\_new= [0.03898337 0.99782098 1.96319565]

gradient= [-5.78950033e-03 -1.59229083e-05 5.80542324e-03] w = [0.03898337 0.99782098 1.96319565] w\_new= [0.03892548 0.99782082 1.9632537 ]

gradient= [-5.78078442e-03 -1.59016756e-05 5.79668610e-03] w = [0.03892548 0.99782082 1.9632537 ] w\_new= [0.03886767 0.99782066 1.96331167]

gradient= [-5.77208181e-03 -1.58804716e-05 5.78796228e-03] w = [0.03886767 0.99782066 1.96331167] w\_new= [0.03880995 0.9978205 1.96336955]

gradient= [-5.76339249e-03 -1.58592962e-05 5.77925178e-03] w = [0.03880995 0.9978205 1.96336955] w\_new= [0.03875232 0.99782035 1.96342734]

gradient= [-5.75471642e-03 -1.58381495e-05 5.77055457e-03] w = [0.03875232 0.99782035 1.96342734] w\_new= [0.03869477 0.99782019 1.96348504]

gradient= [-5.74605360e-03 -1.58170313e-05 5.76187063e-03] w = [0.03869477 0.99782019 1.96348504] w\_new= [0.03863731 0.99782003 1.96354266]

gradient= [-5.73740399e-03 -1.57959417e-05 5.75319994e-03] w = [0.03863731 0.99782003 1.96354266] w\_new= [0.03857993 0.99781987 1.9636002 ]

gradient= [-5.72876759e-03 -1.57748805e-05 5.74454247e-03] w = [0.03857993 0.99781987 1.9636002 ] w\_new= [0.03852265 0.99781971 1.96365764]

gradient= [-5.72014436e-03 -1.57538478e-05 5.73589821e-03] w = [0.03852265 0.99781971 1.96365764] w\_new= [0.03846544 0.99781956 1.963715 ]

gradient= [-5.71153429e-03 -1.57328436e-05 5.72726714e-03] w = [0.03846544 0.99781956 1.963715 ] w\_new= [0.03840833 0.9978194 1.96377227]

gradient= [-5.70293736e-03 -1.57118677e-05 5.71864923e-03] w = [0.03840833 0.9978194 1.96377227] w\_new= [0.0383513 0.99781924 1.96382946]

gradient= [-5.69435355e-03 -1.56909201e-05 5.71004447e-03] w = [0.0383513 0.99781924 1.96382946] w\_new= [0.03829436 0.99781908 1.96388656]

gradient= [-5.68578283e-03 -1.56700008e-05 5.70145283e-03] w = [0.03829436 0.99781908 1.96388656] w\_new= [0.0382375 0.99781893 1.96394357]

gradient= [-5.67722518e-03 -1.56491098e-05 5.69287429e-03] w = [0.0382375 0.99781893 1.96394357] w\_new= [0.03818073 0.99781877 1.9640005 ]

gradient= [-5.66868060e-03 -1.56282469e-05 5.68430884e-03] w = [0.03818073 0.99781877 1.9640005 ] w\_new= [0.03812404 0.99781861 1.96405735]

gradient= [-5.66014904e-03 -1.56074123e-05 5.67575646e-03] w = [0.03812404 0.99781861 1.96405735] w\_new= [0.03806744 0.99781846 1.9641141 ]

gradient= [-5.65163050e-03 -1.55866058e-05 5.66721711e-03] w = [0.03806744 0.99781846 1.9641141 ] w\_new= [0.03801092 0.9978183 1.96417078]

gradient= [-5.64312496e-03 -1.55658273e-05 5.65869079e-03] w = [0.03801092 0.9978183 1.96417078] w\_new= [0.03795449 0.99781815 1.96422736]

gradient= [-5.63463239e-03 -1.55450769e-05 5.65017747e-03] w = [0.03795449 0.99781815 1.96422736] w\_new= [0.03789814 0.99781799 1.96428386]

gradient= [-5.62615277e-03 -1.55243546e-05 5.64167713e-03] w = [0.03789814 0.99781799 1.96428386] w\_new= [0.03784188 0.99781784 1.96434028]

gradient= [-5.61768609e-03 -1.55036602e-05 5.63318975e-03] w = [0.03784188 0.99781784 1.96434028] w\_new= [0.03778571 0.99781768 1.96439661]

gradient= [-5.60923231e-03 -1.54829937e-05 5.62471531e-03] w = [0.03778571 0.99781768 1.96439661] w\_new= [0.03772961 0.99781753 1.96445286]

gradient= [-5.60079144e-03 -1.54623551e-05 5.61625379e-03] w = [0.03772961 0.99781753 1.96445286] w\_new= [0.03767361 0.99781737 1.96450902]

gradient= [-5.59236343e-03 -1.54417444e-05 5.60780517e-03] w = [0.03767361 0.99781737 1.96450902] w\_new= [0.03761768 0.99781722 1.9645651 ]

gradient= [-5.58394828e-03 -1.54211615e-05 5.59936944e-03] w = [0.03761768 0.99781722 1.9645651 ] w\_new= [0.03756184 0.99781706 1.96462109]

gradient= [-5.57554595e-03 -1.54006064e-05 5.59094656e-03] w = [0.03756184 0.99781706 1.96462109] w\_new= [0.03750609 0.99781691 1.964677 ]

gradient= [-5.56715644e-03 -1.53800790e-05 5.58253652e-03] w = [0.03750609 0.99781691 1.964677 ] w\_new= [0.03745042 0.99781676 1.96473283]

gradient= [-5.55877973e-03 -1.53595793e-05 5.57413931e-03] w = [0.03745042 0.99781676 1.96473283] w\_new= [0.03739483 0.9978166 1.96478857]

gradient= [-5.55041578e-03 -1.53391072e-05 5.56575489e-03] w = [0.03739483 0.9978166 1.96478857] w\_new= [0.03733932 0.99781645 1.96484423]

gradient= [-5.54206459e-03 -1.53186628e-05 5.55738325e-03] w = [0.03733932 0.99781645 1.96484423] w\_new= [0.0372839 0.9978163 1.9648998]

gradient= [-5.53372613e-03 -1.52982459e-05 5.54902438e-03] w = [0.0372839 0.9978163 1.9648998] w\_new= [0.03722857 0.99781614 1.96495529]

gradient= [-5.52540038e-03 -1.52778566e-05 5.54067824e-03] w = [0.03722857 0.99781614 1.96495529] w\_new= [0.03717331 0.99781599 1.9650107 ]

gradient= [-5.51708733e-03 -1.52574948e-05 5.53234482e-03] w = [0.03717331 0.99781599 1.9650107 ] w\_new= [0.03711814 0.99781584 1.96506602]

gradient= [-5.50878695e-03 -1.52371604e-05 5.52402411e-03] w = [0.03711814 0.99781584 1.96506602] w\_new= [0.03706305 0.99781568 1.96512126]

gradient= [-5.50049922e-03 -1.52168535e-05 5.51571607e-03] w = [0.03706305 0.99781568 1.96512126] w\_new= [0.03700805 0.99781553 1.96517642]

gradient= [-5.49222412e-03 -1.51965739e-05 5.50742070e-03] w = [0.03700805 0.99781553 1.96517642] w\_new= [0.03695313 0.99781538 1.96523149]

gradient= [-5.48396164e-03 -1.51763217e-05 5.49913796e-03] w = [0.03695313 0.99781538 1.96523149] w\_new= [0.03689829 0.99781523 1.96528649]

gradient= [-5.47571175e-03 -1.51560968e-05 5.49086785e-03] w = [0.03689829 0.99781523 1.96528649] w\_new= [0.03684353 0.99781508 1.96534139]

gradient= [-5.46747444e-03 -1.51358992e-05 5.48261034e-03] w = [0.03684353 0.99781508 1.96534139] w\_new= [0.03678885 0.99781493 1.96539622]

gradient= [-5.45924968e-03 -1.51157288e-05 5.47436541e-03] w = [0.03678885 0.99781493 1.96539622] w\_new= [0.03673426 0.99781477 1.96545096]

gradient= [-5.45103745e-03 -1.50955855e-05 5.46613304e-03] w = [0.03673426 0.99781477 1.96545096] w\_new= [0.03667975 0.99781462 1.96550562]

gradient= [-5.44283775e-03 -1.50754695e-05 5.45791322e-03] w = [0.03667975 0.99781462 1.96550562] w\_new= [0.03662532 0.99781447 1.9655602 ]

gradient= [-5.43465053e-03 -1.50553805e-05 5.44970591e-03] w = [0.03662532 0.99781447 1.9655602 ] w\_new= [0.03657098 0.99781432 1.9656147 ]

gradient= [-5.42647580e-03 -1.50353186e-05 5.44151111e-03] w = [0.03657098 0.99781432 1.9656147 ] w\_new= [0.03651671 0.99781417 1.96566912]

gradient= [-5.41831352e-03 -1.50152838e-05 5.43332880e-03] w = [0.03651671 0.99781417 1.96566912] w\_new= [0.03646253 0.99781402 1.96572345]

gradient= [-5.41016367e-03 -1.49952759e-05 5.42515895e-03] w = [0.03646253 0.99781402 1.96572345] w\_new= [0.03640843 0.99781387 1.9657777 ]

gradient= [-5.40202625e-03 -1.49752951e-05 5.41700154e-03] w = [0.03640843 0.99781387 1.9657777 ] w\_new= [0.03635441 0.99781372 1.96583187]

gradient= [-5.39390122e-03 -1.49553411e-05 5.40885656e-03] w = [0.03635441 0.99781372 1.96583187] w\_new= [0.03630047 0.99781357 1.96588596]

gradient= [-5.38578857e-03 -1.49354140e-05 5.40072399e-03] w = [0.03630047 0.99781357 1.96588596] w\_new= [0.03624661 0.99781342 1.96593997]

gradient= [-5.37768829e-03 -1.49155138e-05 5.39260380e-03] w = [0.03624661 0.99781342 1.96593997] w\_new= [0.03619283 0.99781327 1.96599389]

gradient= [-5.36960034e-03 -1.48956404e-05 5.38449598e-03] w = [0.03619283 0.99781327 1.96599389] w\_new= [0.03613914 0.99781313 1.96604774]

gradient= [-5.36152472e-03 -1.48757937e-05 5.37640051e-03] w = [0.03613914 0.99781313 1.96604774] w\_new= [0.03608552 0.99781298 1.9661015 ]

gradient= [-5.35346139e-03 -1.48559738e-05 5.36831737e-03] w = [0.03608552 0.99781298 1.9661015 ] w\_new= [0.03603199 0.99781283 1.96615519]

gradient= [-5.34541035e-03 -1.48361805e-05 5.36024653e-03] w = [0.03603199 0.99781283 1.96615519] w\_new= [0.03597853 0.99781268 1.96620879]

gradient= [-5.33737158e-03 -1.48164140e-05 5.35218799e-03] w = [0.03597853 0.99781268 1.96620879] w\_new= [0.03592516 0.99781253 1.96626231]

gradient= [-5.32934505e-03 -1.47966740e-05 5.34414172e-03] w = [0.03592516 0.99781253 1.96626231] w\_new= [0.03587187 0.99781238 1.96631575]

gradient= [-5.32133074e-03 -1.47769606e-05 5.33610770e-03] w = [0.03587187 0.99781238 1.96631575] w\_new= [0.03581865 0.99781224 1.96636911]

gradient= [-5.31332864e-03 -1.47572738e-05 5.32808591e-03] w = [0.03581865 0.99781224 1.96636911] w\_new= [0.03576552 0.99781209 1.96642239]

gradient= [-5.30533873e-03 -1.47376135e-05 5.32007634e-03] w = [0.03576552 0.99781209 1.96642239] w\_new= [0.03571247 0.99781194 1.96647559]

gradient= [-5.29736099e-03 -1.47179796e-05 5.31207896e-03] w = [0.03571247 0.99781194 1.96647559] w\_new= [0.03565949 0.99781179 1.96652871]

gradient= [-5.28939539e-03 -1.46983722e-05 5.30409376e-03] w = [0.03565949 0.99781179 1.96652871] w\_new= [0.0356066 0.99781165 1.96658176]

gradient= [-5.28144193e-03 -1.46787912e-05 5.29612072e-03] w = [0.0356066 0.99781165 1.96658176] w\_new= [0.03555378 0.9978115 1.96663472]

gradient= [-5.27350058e-03 -1.46592365e-05 5.28815981e-03] w = [0.03555378 0.9978115 1.96663472] w\_new= [0.03550105 0.99781135 1.9666876 ]

gradient= [-5.26557132e-03 -1.46397082e-05 5.28021102e-03] w = [0.03550105 0.99781135 1.9666876 ] w\_new= [0.03544839 0.99781121 1.9667404 ]

gradient= [-5.25765413e-03 -1.46202061e-05 5.27227434e-03] w = [0.03544839 0.99781121 1.9667404 ] w\_new= [0.03539582 0.99781106 1.96679312]

gradient= [-5.24974900e-03 -1.46007303e-05 5.26434973e-03] w = [0.03539582 0.99781106 1.96679312] w\_new= [0.03534332 0.99781091 1.96684577]

gradient= [-5.24185591e-03 -1.45812807e-05 5.25643719e-03] w = [0.03534332 0.99781091 1.96684577] w\_new= [0.0352909 0.99781077 1.96689833]

gradient= [-5.23397483e-03 -1.45618573e-05 5.24853669e-03] w = [0.0352909 0.99781077 1.96689833] w\_new= [0.03523856 0.99781062 1.96695082]

gradient= [-5.22610575e-03 -1.45424600e-05 5.24064821e-03] w = [0.03523856 0.99781062 1.96695082] w\_new= [0.0351863 0.99781048 1.96700322]

gradient= [-5.21824866e-03 -1.45230888e-05 5.23277174e-03] w = [0.0351863 0.99781048 1.96700322] w\_new= [0.03513412 0.99781033 1.96705555]

gradient= [-5.21040352e-03 -1.45037437e-05 5.22490726e-03] w = [0.03513412 0.99781033 1.96705555] w\_new= [0.03508201 0.99781019 1.9671078 ]

gradient= [-5.20257033e-03 -1.44844246e-05 5.21705475e-03] w = [0.03508201 0.99781019 1.9671078 ] w\_new= [0.03502999 0.99781004 1.96715997]

gradient= [-5.19474906e-03 -1.44651314e-05 5.20921419e-03] w = [0.03502999 0.99781004 1.96715997] w\_new= [0.03497804 0.9978099 1.96721206]

gradient= [-5.18693969e-03 -1.44458643e-05 5.20138556e-03] w = [0.03497804 0.9978099 1.96721206] w\_new= [0.03492617 0.99780975 1.96726408]

gradient= [-5.17914222e-03 -1.44266230e-05 5.19356884e-03] w = [0.03492617 0.99780975 1.96726408] w\_new= [0.03487438 0.99780961 1.96731601]

gradient= [-5.17135661e-03 -1.44074077e-05 5.18576402e-03] w = [0.03487438 0.99780961 1.96731601] w\_new= [0.03482267 0.99780947 1.96736787]

gradient= [-5.16358285e-03 -1.43882181e-05 5.17797107e-03] w = [0.03482267 0.99780947 1.96736787] w\_new= [0.03477103 0.99780932 1.96741965]

gradient= [-5.15582092e-03 -1.43690544e-05 5.17018998e-03] w = [0.03477103 0.99780932 1.96741965] w\_new= [0.03471947 0.99780918 1.96747135]

gradient= [-5.14807081e-03 -1.43499165e-05 5.16242073e-03] w = [0.03471947 0.99780918 1.96747135] w\_new= [0.03466799 0.99780903 1.96752298]

gradient= [-5.14033249e-03 -1.43308042e-05 5.15466330e-03] w = [0.03466799 0.99780903 1.96752298] w\_new= [0.03461659 0.99780889 1.96757452]

gradient= [-5.13260595e-03 -1.43117177e-05 5.14691767e-03] w = [0.03461659 0.99780889 1.96757452] w\_new= [0.03456526 0.99780875 1.96762599]

gradient= [-5.12489117e-03 -1.42926569e-05 5.13918382e-03] w = [0.03456526 0.99780875 1.96762599] w\_new= [0.03451401 0.9978086 1.96767738]

gradient= [-5.11718812e-03 -1.42736216e-05 5.13146174e-03] w = [0.03451401 0.9978086 1.96767738] w\_new= [0.03446284 0.99780846 1.9677287 ]

gradient= [-5.10949680e-03 -1.42546120e-05 5.12375141e-03] w = [0.03446284 0.99780846 1.9677287 ] w\_new= [0.03441175 0.99780832 1.96777993]

gradient= [-5.10181718e-03 -1.42356279e-05 5.11605281e-03] w = [0.03441175 0.99780832 1.96777993] w\_new= [0.03436073 0.99780818 1.9678311 ]

gradient= [-5.09414924e-03 -1.42166694e-05 5.10836591e-03] w = [0.03436073 0.99780818 1.9678311 ] w\_new= [0.03430979 0.99780803 1.96788218]

gradient= [-5.08649298e-03 -1.41977363e-05 5.10069071e-03] w = [0.03430979 0.99780803 1.96788218] w\_new= [0.03425892 0.99780789 1.96793319]

gradient= [-5.07884836e-03 -1.41788286e-05 5.09302718e-03] w = [0.03425892 0.99780789 1.96793319] w\_new= [0.03420813 0.99780775 1.96798412]

gradient= [-5.07121537e-03 -1.41599464e-05 5.08537531e-03] w = [0.03420813 0.99780775 1.96798412] w\_new= [0.03415742 0.99780761 1.96803497]

gradient= [-5.06359399e-03 -1.41410896e-05 5.07773508e-03] w = [0.03415742 0.99780761 1.96803497] w\_new= [0.03410678 0.99780747 1.96808575]

gradient= [-5.05598421e-03 -1.41222581e-05 5.07010647e-03] w = [0.03410678 0.99780747 1.96808575] w\_new= [0.03405622 0.99780733 1.96813645]

gradient= [-5.04838600e-03 -1.41034519e-05 5.06248945e-03] w = [0.03405622 0.99780733 1.96813645] w\_new= [0.03400574 0.99780719 1.96818707]

gradient= [-5.04079935e-03 -1.40846709e-05 5.05488402e-03] w = [0.03400574 0.99780719 1.96818707] w\_new= [0.03395533 0.99780704 1.96823762]

gradient= [-5.03322425e-03 -1.40659152e-05 5.04729016e-03] w = [0.03395533 0.99780704 1.96823762] w\_new= [0.033905 0.9978069 1.9682881]

gradient= [-5.02566066e-03 -1.40471847e-05 5.03970785e-03] w = [0.033905 0.9978069 1.9682881] w\_new= [0.03385474 0.99780676 1.96833849]

gradient= [-5.01810858e-03 -1.40284794e-05 5.03213706e-03] w = [0.03385474 0.99780676 1.96833849] w\_new= [0.03380456 0.99780662 1.96838881]

gradient= [-5.01056799e-03 -1.40097992e-05 5.02457778e-03] w = [0.03380456 0.99780662 1.96838881] w\_new= [0.03375446 0.99780648 1.96843906]

gradient= [-5.00303886e-03 -1.39911440e-05 5.01703000e-03] w = [0.03375446 0.99780648 1.96843906] w\_new= [0.03370443 0.99780634 1.96848923]

gradient= [-4.99552118e-03 -1.39725140e-05 5.00949370e-03] w = [0.03370443 0.99780634 1.96848923] w\_new= [0.03365447 0.9978062 1.96853932]

gradient= [-4.98801494e-03 -1.39539089e-05 5.00196885e-03] w = [0.03365447 0.9978062 1.96853932] w\_new= [0.03360459 0.99780606 1.96858934]

gradient= [-4.98052012e-03 -1.39353289e-05 4.99445544e-03] w = [0.03360459 0.99780606 1.96858934] w\_new= [0.03355479 0.99780592 1.96863929]

gradient= [-4.97303669e-03 -1.39167738e-05 4.98695346e-03] w = [0.03355479 0.99780592 1.96863929] w\_new= [0.03350506 0.99780579 1.96868916]

gradient= [-4.96556464e-03 -1.38982436e-05 4.97946288e-03] w = [0.03350506 0.99780579 1.96868916] w\_new= [0.0334554 0.99780565 1.96873895]

gradient= [-4.95810395e-03 -1.38797383e-05 4.97198369e-03] w = [0.0334554 0.99780565 1.96873895] w\_new= [0.03340582 0.99780551 1.96878867]

gradient= [-4.95065460e-03 -1.38612578e-05 4.96451586e-03] w = [0.03340582 0.99780551 1.96878867] w\_new= [0.03335631 0.99780537 1.96883832]

gradient= [-4.94321659e-03 -1.38428022e-05 4.95705939e-03] w = [0.03335631 0.99780537 1.96883832] w\_new= [0.03330688 0.99780523 1.96888789]

gradient= [-4.93578988e-03 -1.38243713e-05 4.94961425e-03] w = [0.03330688 0.99780523 1.96888789] w\_new= [0.03325752 0.99780509 1.96893738]

gradient= [-4.92837446e-03 -1.38059652e-05 4.94218043e-03] w = [0.03325752 0.99780509 1.96893738] w\_new= [0.03320824 0.99780495 1.96898681]

gradient= [-4.92097032e-03 -1.37875838e-05 4.93475791e-03] w = [0.03320824 0.99780495 1.96898681] w\_new= [0.03315903 0.99780482 1.96903615]

gradient= [-4.91357744e-03 -1.37692271e-05 4.92734666e-03] w = [0.03315903 0.99780482 1.96903615] w\_new= [0.03310989 0.99780468 1.96908543]

gradient= [-4.90619579e-03 -1.37508950e-05 4.91994668e-03] w = [0.03310989 0.99780468 1.96908543] w\_new= [0.03306083 0.99780454 1.96913463]

gradient= [-4.89882536e-03 -1.37325875e-05 4.91255795e-03] w = [0.03306083 0.99780454 1.96913463] w\_new= [0.03301184 0.9978044 1.96918375]

gradient= [-4.89146614e-03 -1.37143046e-05 4.90518045e-03] w = [0.03301184 0.9978044 1.96918375] w\_new= [0.03296293 0.99780427 1.9692328 ]

gradient= [-4.88411811e-03 -1.36960462e-05 4.89781415e-03] w = [0.03296293 0.99780427 1.9692328 ] w\_new= [0.03291409 0.99780413 1.96928178]

gradient= [-4.87678124e-03 -1.36778123e-05 4.89045905e-03] w = [0.03291409 0.99780413 1.96928178] w\_new= [0.03286532 0.99780399 1.96933069]

gradient= [-4.86945553e-03 -1.36596029e-05 4.88311513e-03] w = [0.03286532 0.99780399 1.96933069] w\_new= [0.03281662 0.99780386 1.96937952]

gradient= [-4.86214095e-03 -1.36414179e-05 4.87578237e-03] w = [0.03281662 0.99780386 1.96937952] w\_new= [0.032768 0.99780372 1.96942828]

gradient= [-4.85483749e-03 -1.36232573e-05 4.86846074e-03] w = [0.032768 0.99780372 1.96942828] w\_new= [0.03271946 0.99780358 1.96947696]

gradient= [-4.84754512e-03 -1.36051211e-05 4.86115024e-03] w = [0.03271946 0.99780358 1.96947696] w\_new= [0.03267098 0.99780345 1.96952557]

gradient= [-4.84026384e-03 -1.35870092e-05 4.85385085e-03] w = [0.03267098 0.99780345 1.96952557] w\_new= [0.03262258 0.99780331 1.96957411]

gradient= [-4.83299363e-03 -1.35689216e-05 4.84656255e-03] w = [0.03262258 0.99780331 1.96957411] w\_new= [0.03257425 0.99780318 1.96962258]

gradient= [-4.82573446e-03 -1.35508583e-05 4.83928532e-03] w = [0.03257425 0.99780318 1.96962258] w\_new= [0.03252599 0.99780304 1.96967097]

gradient= [-4.81848633e-03 -1.35328192e-05 4.83201915e-03] w = [0.03252599 0.99780304 1.96967097] w\_new= [0.0324778 0.99780291 1.96971929]

gradient= [-4.81124921e-03 -1.35148043e-05 4.82476401e-03] w = [0.0324778 0.99780291 1.96971929] w\_new= [0.03242969 0.99780277 1.96976754]

gradient= [-4.80402309e-03 -1.34968135e-05 4.81751990e-03] w = [0.03242969 0.99780277 1.96976754] w\_new= [0.03238165 0.99780264 1.96981571]

gradient= [-4.79680794e-03 -1.34788469e-05 4.81028679e-03] w = [0.03238165 0.99780264 1.96981571] w\_new= [0.03233368 0.9978025 1.96986382]

gradient= [-4.78960376e-03 -1.34609044e-05 4.80306467e-03] w = [0.03233368 0.9978025 1.96986382] w\_new= [0.03228579 0.99780237 1.96991185]

gradient= [-4.78241053e-03 -1.34429860e-05 4.79585351e-03] w = [0.03228579 0.99780237 1.96991185] w\_new= [0.03223796 0.99780223 1.9699598 ]

gradient= [-4.77522822e-03 -1.34250915e-05 4.78865331e-03] w = [0.03223796 0.99780223 1.9699598 ] w\_new= [0.03219021 0.9978021 1.97000769]

gradient= [-4.76805683e-03 -1.34072211e-05 4.78146405e-03] w = [0.03219021 0.9978021 1.97000769] w\_new= [0.03214253 0.99780196 1.97005551]

gradient= [-4.76089633e-03 -1.33893746e-05 4.77428570e-03] w = [0.03214253 0.99780196 1.97005551] w\_new= [0.03209492 0.99780183 1.97010325]

gradient= [-4.75374670e-03 -1.33715521e-05 4.76711826e-03] w = [0.03209492 0.99780183 1.97010325] w\_new= [0.03204738 0.9978017 1.97015092]

gradient= [-4.74660794e-03 -1.33537534e-05 4.75996170e-03] w = [0.03204738 0.9978017 1.97015092] w\_new= [0.03199992 0.99780156 1.97019852]

gradient= [-4.73948003e-03 -1.33359787e-05 4.75281600e-03] w = [0.03199992 0.99780156 1.97019852] w\_new= [0.03195252 0.99780143 1.97024605]

gradient= [-4.73236294e-03 -1.33182277e-05 4.74568116e-03] w = [0.03195252 0.99780143 1.97024605] w\_new= [0.0319052 0.9978013 1.9702935]

gradient= [-4.72525666e-03 -1.33005005e-05 4.73855716e-03] w = [0.0319052 0.9978013 1.9702935] w\_new= [0.03185795 0.99780116 1.97034089]

gradient= [-4.71816117e-03 -1.32827971e-05 4.73144397e-03] w = [0.03185795 0.99780116 1.97034089] w\_new= [0.03181077 0.99780103 1.9703882 ]

gradient= [-4.71107647e-03 -1.32651174e-05 4.72434158e-03] w = [0.03181077 0.99780103 1.9703882 ] w\_new= [0.03176366 0.9978009 1.97043545]

gradient= [-4.70400252e-03 -1.32474615e-05 4.71724998e-03] w = [0.03176366 0.9978009 1.97043545] w\_new= [0.03171662 0.99780076 1.97048262]

gradient= [-4.69693931e-03 -1.32298291e-05 4.71016914e-03] w = [0.03171662 0.99780076 1.97048262] w\_new= [0.03166965 0.99780063 1.97052972]

gradient= [-4.68988684e-03 -1.32122204e-05 4.70309906e-03] w = [0.03166965 0.99780063 1.97052972] w\_new= [0.03162275 0.9978005 1.97057675]

gradient= [-4.68284507e-03 -1.31946353e-05 4.69603971e-03] w = [0.03162275 0.9978005 1.97057675] w\_new= [0.03157592 0.99780037 1.97062371]

gradient= [-4.67581400e-03 -1.31770738e-05 4.68899107e-03] w = [0.03157592 0.99780037 1.97062371] w\_new= [0.03152916 0.99780024 1.9706706 ]

gradient= [-4.66879360e-03 -1.31595358e-05 4.68195314e-03] w = [0.03152916 0.99780024 1.9706706 ] w\_new= [0.03148247 0.9978001 1.97071742]

gradient= [-4.66178387e-03 -1.31420213e-05 4.67492589e-03] w = [0.03148247 0.9978001 1.97071742] w\_new= [0.03143585 0.99779997 1.97076417]

gradient= [-4.65478477e-03 -1.31245303e-05 4.66790930e-03] w = [0.03143585 0.99779997 1.97076417] w\_new= [0.03138931 0.99779984 1.97081085]

gradient= [-4.64779631e-03 -1.31070626e-05 4.66090337e-03] w = [0.03138931 0.99779984 1.97081085] w\_new= [0.03134283 0.99779971 1.97085746]

gradient= [-4.64081846e-03 -1.30896184e-05 4.65390808e-03] w = [0.03134283 0.99779971 1.97085746] w\_new= [0.03129642 0.99779958 1.970904 ]

gradient= [-4.63385120e-03 -1.30721976e-05 4.64692340e-03] w = [0.03129642 0.99779958 1.970904 ] w\_new= [0.03125008 0.99779945 1.97095047]

gradient= [-4.62689452e-03 -1.30548001e-05 4.63994932e-03] w = [0.03125008 0.99779945 1.97095047] w\_new= [0.03120381 0.99779932 1.97099687]

gradient= [-4.61994840e-03 -1.30374259e-05 4.63298583e-03] w = [0.03120381 0.99779932 1.97099687] w\_new= [0.03115761 0.99779919 1.9710432 ]

gradient= [-4.61301283e-03 -1.30200749e-05 4.62603290e-03] w = [0.03115761 0.99779919 1.9710432 ] w\_new= [0.03111148 0.99779906 1.97108946]

gradient= [-4.60608778e-03 -1.30027472e-05 4.61909053e-03] w = [0.03111148 0.99779906 1.97108946] w\_new= [0.03106542 0.99779893 1.97113565]

gradient= [-4.59917325e-03 -1.29854428e-05 4.61215869e-03] w = [0.03106542 0.99779893 1.97113565] w\_new= [0.03101943 0.9977988 1.97118177]

gradient= [-4.59226922e-03 -1.29681614e-05 4.60523738e-03] w = [0.03101943 0.9977988 1.97118177] w\_new= [0.03097351 0.99779867 1.97122782]

gradient= [-4.58537566e-03 -1.29509033e-05 4.59832656e-03] w = [0.03097351 0.99779867 1.97122782] w\_new= [0.03092765 0.99779854 1.97127381]

gradient= [-4.57849257e-03 -1.29336682e-05 4.59142624e-03] w = [0.03092765 0.99779854 1.97127381] w\_new= [0.03088187 0.99779841 1.97131972]

gradient= [-4.57161993e-03 -1.29164562e-05 4.58453638e-03] w = [0.03088187 0.99779841 1.97131972] w\_new= [0.03083615 0.99779828 1.97136557]

gradient= [-4.56475771e-03 -1.28992672e-05 4.57765698e-03] w = [0.03083615 0.99779828 1.97136557] w\_new= [0.03079051 0.99779815 1.97141134]

gradient= [-4.55790592e-03 -1.28821013e-05 4.57078802e-03] w = [0.03079051 0.99779815 1.97141134] w\_new= [0.03074493 0.99779802 1.97145705]

gradient= [-4.55106452e-03 -1.28649583e-05 4.56392948e-03] w = [0.03074493 0.99779802 1.97145705] w\_new= [0.03069942 0.99779789 1.97150269]

gradient= [-4.54423350e-03 -1.28478383e-05 4.55708134e-03] w = [0.03069942 0.99779789 1.97150269] w\_new= [0.03065397 0.99779777 1.97154826]

gradient= [-4.53741286e-03 -1.28307412e-05 4.55024360e-03] w = [0.03065397 0.99779777 1.97154826] w\_new= [0.0306086 0.99779764 1.97159376]

gradient= [-4.53060256e-03 -1.28136670e-05 4.54341623e-03] w = [0.0306086 0.99779764 1.97159376] w\_new= [0.03056329 0.99779751 1.9716392 ]

gradient= [-4.52380260e-03 -1.27966157e-05 4.53659921e-03] w = [0.03056329 0.99779751 1.9716392 ] w\_new= [0.03051806 0.99779738 1.97168456]

gradient= [-4.51701295e-03 -1.27795872e-05 4.52979254e-03] w = [0.03051806 0.99779738 1.97168456] w\_new= [0.03047289 0.99779725 1.97172986]

gradient= [-4.51023361e-03 -1.27625814e-05 4.52299619e-03] w = [0.03047289 0.99779725 1.97172986] w\_new= [0.03042778 0.99779713 1.97177509]

gradient= [-4.50346456e-03 -1.27455984e-05 4.51621016e-03] w = [0.03042778 0.99779713 1.97177509] w\_new= [0.03038275 0.997797 1.97182025]

gradient= [-4.49670578e-03 -1.27286382e-05 4.50943441e-03] w = [0.03038275 0.997797 1.97182025] w\_new= [0.03033778 0.99779687 1.97186535]

gradient= [-4.48995725e-03 -1.27117006e-05 4.50266895e-03] w = [0.03033778 0.99779687 1.97186535] w\_new= [0.03029288 0.99779674 1.97191037]

gradient= [-4.48321896e-03 -1.26947857e-05 4.49591375e-03] w = [0.03029288 0.99779674 1.97191037] w\_new= [0.03024805 0.99779662 1.97195533]

gradient= [-4.47649089e-03 -1.26778935e-05 4.48916879e-03] w = [0.03024805 0.99779662 1.97195533] w\_new= [0.03020328 0.99779649 1.97200022]

gradient= [-4.46977304e-03 -1.26610238e-05 4.48243406e-03] w = [0.03020328 0.99779649 1.97200022] w\_new= [0.03015859 0.99779636 1.97204505]

gradient= [-4.46306537e-03 -1.26441767e-05 4.47570955e-03] w = [0.03015859 0.99779636 1.97204505] w\_new= [0.03011396 0.99779624 1.97208981]

gradient= [-4.45636788e-03 -1.26273521e-05 4.46899523e-03] w = [0.03011396 0.99779624 1.97208981] w\_new= [0.03006939 0.99779611 1.9721345 ]

gradient= [-4.44968055e-03 -1.26105501e-05 4.46229110e-03] w = [0.03006939 0.99779611 1.9721345 ] w\_new= [0.0300249 0.99779599 1.97217912]

gradient= [-4.44300336e-03 -1.25937705e-05 4.45559713e-03] w = [0.0300249 0.99779599 1.97217912] w\_new= [0.02998047 0.99779586 1.97222368]

gradient= [-4.43633631e-03 -1.25770134e-05 4.44891332e-03] w = [0.02998047 0.99779586 1.97222368] w\_new= [0.0299361 0.99779573 1.97226816]

gradient= [-4.42967936e-03 -1.25602787e-05 4.44223964e-03] w = [0.0299361 0.99779573 1.97226816] w\_new= [0.02989181 0.99779561 1.97231259]

gradient= [-4.42303252e-03 -1.25435663e-05 4.43557608e-03] w = [0.02989181 0.99779561 1.97231259] w\_new= [0.02984758 0.99779548 1.97235694]

gradient= [-4.41639575e-03 -1.25268764e-05 4.42892263e-03] w = [0.02984758 0.99779548 1.97235694] w\_new= [0.02980341 0.99779536 1.97240123]

gradient= [-4.40976905e-03 -1.25102087e-05 4.42227926e-03] w = [0.02980341 0.99779536 1.97240123] w\_new= [0.02975931 0.99779523 1.97244545]

gradient= [-4.40315240e-03 -1.24935633e-05 4.41564597e-03] w = [0.02975931 0.99779523 1.97244545] w\_new= [0.02971528 0.99779511 1.97248961]

gradient= [-4.39654579e-03 -1.24769402e-05 4.40902273e-03] w = [0.02971528 0.99779511 1.97248961] w\_new= [0.02967132 0.99779498 1.9725337 ]

gradient= [-4.38994920e-03 -1.24603393e-05 4.40240954e-03] w = [0.02967132 0.99779498 1.9725337 ] w\_new= [0.02962742 0.99779486 1.97257773]

gradient= [-4.38336261e-03 -1.24437606e-05 4.39580637e-03] w = [0.02962742 0.99779486 1.97257773] w\_new= [0.02958358 0.99779473 1.97262168]

gradient= [-4.37678600e-03 -1.24272041e-05 4.38921321e-03] w = [0.02958358 0.99779473 1.97262168] w\_new= [0.02953982 0.99779461 1.97266558]

gradient= [-4.37021938e-03 -1.24106697e-05 4.38263005e-03] w = [0.02953982 0.99779461 1.97266558] w\_new= [0.02949611 0.99779448 1.9727094 ]

gradient= [-4.36366270e-03 -1.23941575e-05 4.37605686e-03] w = [0.02949611 0.99779448 1.9727094 ] w\_new= [0.02945248 0.99779436 1.97275316]

gradient= [-4.35711598e-03 -1.23776673e-05 4.36949364e-03] w = [0.02945248 0.99779436 1.97275316] w\_new= [0.02940891 0.99779424 1.97279686]

gradient= [-4.35057917e-03 -1.23611991e-05 4.36294037e-03] w = [0.02940891 0.99779424 1.97279686] w\_new= [0.0293654 0.99779411 1.97284049]

gradient= [-4.34405228e-03 -1.23447530e-05 4.35639704e-03] w = [0.0293654 0.99779411 1.97284049] w\_new= [0.02932196 0.99779399 1.97288405]

gradient= [-4.33753529e-03 -1.23283288e-05 4.34986362e-03] w = [0.02932196 0.99779399 1.97288405] w\_new= [0.02927858 0.99779387 1.97292755]

gradient= [-4.33102817e-03 -1.23119266e-05 4.34334010e-03] w = [0.02927858 0.99779387 1.97292755] w\_new= [0.02923527 0.99779374 1.97297098]

gradient= [-4.32453093e-03 -1.22955463e-05 4.33682647e-03] w = [0.02923527 0.99779374 1.97297098] w\_new= [0.02919203 0.99779362 1.97301435]

gradient= [-4.31804353e-03 -1.22791879e-05 4.33032272e-03] w = [0.02919203 0.99779362 1.97301435] w\_new= [0.02914885 0.9977935 1.97305765]

gradient= [-4.31156596e-03 -1.22628514e-05 4.32382882e-03] w = [0.02914885 0.9977935 1.97305765] w\_new= [0.02910573 0.99779338 1.97310089]

gradient= [-4.30509822e-03 -1.22465367e-05 4.31734476e-03] w = [0.02910573 0.99779338 1.97310089] w\_new= [0.02906268 0.99779325 1.97314407]

gradient= [-4.29864028e-03 -1.22302438e-05 4.31087053e-03] w = [0.02906268 0.99779325 1.97314407] w\_new= [0.0290197 0.99779313 1.97318717]

gradient= [-4.29219213e-03 -1.22139727e-05 4.30440611e-03] w = [0.0290197 0.99779313 1.97318717] w\_new= [0.02897677 0.99779301 1.97323022]

gradient= [-4.28575376e-03 -1.21977233e-05 4.29795148e-03] w = [0.02897677 0.99779301 1.97323022] w\_new= [0.02893392 0.99779289 1.9732732 ]

gradient= [-4.27932514e-03 -1.21814956e-05 4.29150664e-03] w = [0.02893392 0.99779289 1.9732732 ] w\_new= [0.02889112 0.99779276 1.97331611]

gradient= [-4.27290627e-03 -1.21652896e-05 4.28507156e-03] w = [0.02889112 0.99779276 1.97331611] w\_new= [0.02884839 0.99779264 1.97335896]

gradient= [-4.26649713e-03 -1.21491053e-05 4.27864623e-03] w = [0.02884839 0.99779264 1.97335896] w\_new= [0.02880573 0.99779252 1.97340175]

gradient= [-4.26009770e-03 -1.21329426e-05 4.27223064e-03] w = [0.02880573 0.99779252 1.97340175] w\_new= [0.02876313 0.9977924 1.97344447]

gradient= [-4.25370797e-03 -1.21168014e-05 4.26582477e-03] w = [0.02876313 0.9977924 1.97344447] w\_new= [0.02872059 0.99779228 1.97348713]

gradient= [-4.24732793e-03 -1.21006819e-05 4.25942861e-03] w = [0.02872059 0.99779228 1.97348713] w\_new= [0.02867812 0.99779216 1.97352973]

gradient= [-4.24095755e-03 -1.20845839e-05 4.25304213e-03] w = [0.02867812 0.99779216 1.97352973] w\_new= [0.02863571 0.99779204 1.97357226]

gradient= [-4.23459683e-03 -1.20685073e-05 4.24666533e-03] w = [0.02863571 0.99779204 1.97357226] w\_new= [0.02859336 0.99779192 1.97361472]

gradient= [-4.22824574e-03 -1.20524523e-05 4.24029820e-03] w = [0.02859336 0.99779192 1.97361472] w\_new= [0.02855108 0.9977918 1.97365713]

gradient= [-4.22190429e-03 -1.20364187e-05 4.23394070e-03] w = [0.02855108 0.9977918 1.97365713] w\_new= [0.02850886 0.99779168 1.97369946]

gradient= [-4.21557244e-03 -1.20204065e-05 4.22759284e-03] w = [0.02850886 0.99779168 1.97369946] w\_new= [0.0284667 0.99779156 1.97374174]

gradient= [-4.20925018e-03 -1.20044157e-05 4.22125460e-03] w = [0.0284667 0.99779156 1.97374174] w\_new= [0.02842461 0.99779144 1.97378395]

gradient= [-4.20293751e-03 -1.19884462e-05 4.21492595e-03] w = [0.02842461 0.99779144 1.97378395] w\_new= [0.02838258 0.99779132 1.9738261 ]

gradient= [-4.19663440e-03 -1.19724981e-05 4.20860689e-03] w = [0.02838258 0.99779132 1.9738261 ] w\_new= [0.02834062 0.9977912 1.97386819]

gradient= [-4.19034084e-03 -1.19565712e-05 4.20229741e-03] w = [0.02834062 0.9977912 1.97386819] w\_new= [0.02829871 0.99779108 1.97391021]

gradient= [-4.18405681e-03 -1.19406657e-05 4.19599748e-03] w = [0.02829871 0.99779108 1.97391021] w\_new= [0.02825687 0.99779096 1.97395217]

gradient= [-4.17778231e-03 -1.19247813e-05 4.18970709e-03] w = [0.02825687 0.99779096 1.97395217] w\_new= [0.02821509 0.99779084 1.97399407]

gradient= [-4.17151731e-03 -1.19089182e-05 4.18342623e-03] w = [0.02821509 0.99779084 1.97399407] w\_new= [0.02817338 0.99779072 1.9740359 ]

gradient= [-4.16526180e-03 -1.18930763e-05 4.17715488e-03] w = [0.02817338 0.99779072 1.9740359 ] w\_new= [0.02813173 0.9977906 1.97407767]

gradient= [-4.15901577e-03 -1.18772555e-05 4.17089303e-03] w = [0.02813173 0.9977906 1.97407767] w\_new= [0.02809014 0.99779048 1.97411938]

gradient= [-4.15277921e-03 -1.18614558e-05 4.16464066e-03] w = [0.02809014 0.99779048 1.97411938] w\_new= [0.02804861 0.99779036 1.97416103]

gradient= [-4.14655209e-03 -1.18456772e-05 4.15839776e-03] w = [0.02804861 0.99779036 1.97416103] w\_new= [0.02800714 0.99779024 1.97420261]

gradient= [-4.14033440e-03 -1.18299197e-05 4.15216432e-03] w = [0.02800714 0.99779024 1.97420261] w\_new= [0.02796574 0.99779013 1.97424414]

gradient= [-4.13412613e-03 -1.18141832e-05 4.14594031e-03] w = [0.02796574 0.99779013 1.97424414] w\_new= [0.0279244 0.99779001 1.97428559]

gradient= [-4.12792726e-03 -1.17984677e-05 4.13972573e-03] w = [0.0279244 0.99779001 1.97428559] w\_new= [0.02788312 0.99778989 1.97432699]

gradient= [-4.12173779e-03 -1.17827732e-05 4.13352056e-03] w = [0.02788312 0.99778989 1.97432699] w\_new= [0.0278419 0.99778977 1.97436833]

gradient= [-4.11555768e-03 -1.17670997e-05 4.12732478e-03] w = [0.0278419 0.99778977 1.97436833] w\_new= [0.02780075 0.99778965 1.9744096 ]

gradient= [-4.10938694e-03 -1.17514470e-05 4.12113839e-03] w = [0.02780075 0.99778965 1.9744096 ] w\_new= [0.02775965 0.99778954 1.97445081]

gradient= [-4.10322555e-03 -1.17358153e-05 4.11496136e-03] w = [0.02775965 0.99778954 1.97445081] w\_new= [0.02771862 0.99778942 1.97449196]

gradient= [-4.09707348e-03 -1.17202044e-05 4.10879369e-03] w = [0.02771862 0.99778942 1.97449196] w\_new= [0.02767765 0.9977893 1.97453305]

gradient= [-4.09093073e-03 -1.17046143e-05 4.10263535e-03] w = [0.02767765 0.9977893 1.97453305] w\_new= [0.02763674 0.99778918 1.97457408]

gradient= [-4.08479729e-03 -1.16890451e-05 4.09648633e-03] w = [0.02763674 0.99778918 1.97457408] w\_new= [0.02759589 0.99778907 1.97461504]

gradient= [-4.07867313e-03 -1.16734966e-05 4.09034663e-03] w = [0.02759589 0.99778907 1.97461504] w\_new= [0.02755511 0.99778895 1.97465594]

gradient= [-4.07255825e-03 -1.16579688e-05 4.08421622e-03] w = [0.02755511 0.99778895 1.97465594] w\_new= [0.02751438 0.99778883 1.97469679]

gradient= [-4.06645262e-03 -1.16424618e-05 4.07809509e-03] w = [0.02751438 0.99778883 1.97469679] w\_new= [0.02747372 0.99778872 1.97473757]

gradient= [-4.06035625e-03 -1.16269755e-05 4.07198322e-03] w = [0.02747372 0.99778872 1.97473757] w\_new= [0.02743311 0.9977886 1.97477829]

gradient= [-4.05426910e-03 -1.16115098e-05 4.06588061e-03] w = [0.02743311 0.9977886 1.97477829] w\_new= [0.02739257 0.99778849 1.97481895]

gradient= [-4.04819117e-03 -1.15960648e-05 4.05978723e-03] w = [0.02739257 0.99778849 1.97481895] w\_new= [0.02735209 0.99778837 1.97485954]

gradient= [-4.04212244e-03 -1.15806403e-05 4.05370308e-03] w = [0.02735209 0.99778837 1.97485954] w\_new= [0.02731167 0.99778825 1.97490008]

gradient= [-4.03606290e-03 -1.15652365e-05 4.04762814e-03] w = [0.02731167 0.99778825 1.97490008] w\_new= [0.02727131 0.99778814 1.97494056]

gradient= [-4.03001254e-03 -1.15498532e-05 4.04156239e-03] w = [0.02727131 0.99778814 1.97494056] w\_new= [0.027231 0.99778802 1.97498097]

gradient= [-4.02397133e-03 -1.15344904e-05 4.03550582e-03] w = [0.027231 0.99778802 1.97498097] w\_new= [0.02719077 0.99778791 1.97502133]

gradient= [-4.01793927e-03 -1.15191481e-05 4.02945842e-03] w = [0.02719077 0.99778791 1.97502133] w\_new= [0.02715059 0.99778779 1.97506162]

gradient= [-4.01191634e-03 -1.15038262e-05 4.02342017e-03] w = [0.02715059 0.99778779 1.97506162] w\_new= [0.02711047 0.99778768 1.97510186]

gradient= [-4.00590253e-03 -1.14885248e-05 4.01739106e-03] w = [0.02711047 0.99778768 1.97510186] w\_new= [0.02707041 0.99778756 1.97514203]

gradient= [-3.99989783e-03 -1.14732438e-05 4.01137107e-03] w = [0.02707041 0.99778756 1.97514203] w\_new= [0.02703041 0.99778745 1.97518214]

gradient= [-3.99390221e-03 -1.14579832e-05 4.00536019e-03] w = [0.02703041 0.99778745 1.97518214] w\_new= [0.02699047 0.99778733 1.9752222 ]

gradient= [-3.98791567e-03 -1.14427430e-05 3.99935841e-03] w = [0.02699047 0.99778733 1.9752222 ] w\_new= [0.02695059 0.99778722 1.97526219]

gradient= [-3.98193819e-03 -1.14275230e-05 3.99336571e-03] w = [0.02695059 0.99778722 1.97526219] w\_new= [0.02691077 0.9977871 1.97530212]

gradient= [-3.97596976e-03 -1.14123234e-05 3.98738208e-03] w = [0.02691077 0.9977871 1.97530212] w\_new= [0.02687101 0.99778699 1.975342 ]

gradient= [-3.97001036e-03 -1.13971440e-05 3.98140750e-03] w = [0.02687101 0.99778699 1.975342 ] w\_new= [0.02683131 0.99778688 1.97538181]

gradient= [-3.96405998e-03 -1.13819848e-05 3.97544196e-03] w = [0.02683131 0.99778688 1.97538181] w\_new= [0.02679167 0.99778676 1.97542157]

gradient= [-3.95811860e-03 -1.13668459e-05 3.96948545e-03] w = [0.02679167 0.99778676 1.97542157] w\_new= [0.02675209 0.99778665 1.97546126]

gradient= [-3.95218622e-03 -1.13517271e-05 3.96353795e-03] w = [0.02675209 0.99778665 1.97546126] w\_new= [0.02671257 0.99778654 1.9755009 ]

gradient= [-3.94626282e-03 -1.13366285e-05 3.95759945e-03] w = [0.02671257 0.99778654 1.9755009 ] w\_new= [0.02667311 0.99778642 1.97554047]

gradient= [-3.94034838e-03 -1.13215501e-05 3.95166993e-03] w = [0.02667311 0.99778642 1.97554047] w\_new= [0.0266337 0.99778631 1.97557999]

gradient= [-3.93444289e-03 -1.13064917e-05 3.94574938e-03] w = [0.0266337 0.99778631 1.97557999] w\_new= [0.02659436 0.9977862 1.97561945]

gradient= [-3.92854634e-03 -1.12914534e-05 3.93983779e-03] w = [0.02659436 0.9977862 1.97561945] w\_new= [0.02655507 0.99778608 1.97565885]

gradient= [-3.92265871e-03 -1.12764352e-05 3.93393515e-03] w = [0.02655507 0.99778608 1.97565885] w\_new= [0.02651585 0.99778597 1.97569819]

gradient= [-3.91677999e-03 -1.12614369e-05 3.92804143e-03] w = [0.02651585 0.99778597 1.97569819] w\_new= [0.02647668 0.99778586 1.97573747]

gradient= [-3.91091017e-03 -1.12464587e-05 3.92215663e-03] w = [0.02647668 0.99778586 1.97573747] w\_new= [0.02643757 0.99778574 1.97577669]

gradient= [-3.90504922e-03 -1.12315004e-05 3.91628073e-03] w = [0.02643757 0.99778574 1.97577669] w\_new= [0.02639852 0.99778563 1.97581585]

gradient= [-3.89919715e-03 -1.12165621e-05 3.91041371e-03] w = [0.02639852 0.99778563 1.97581585] w\_new= [0.02635953 0.99778552 1.97585495]

gradient= [-3.89335393e-03 -1.12016437e-05 3.90455557e-03] w = [0.02635953 0.99778552 1.97585495] w\_new= [0.02632059 0.99778541 1.975894 ]

gradient= [-3.88751955e-03 -1.11867451e-05 3.89870629e-03] w = [0.02632059 0.99778541 1.975894 ] w\_new= [0.02628172 0.9977853 1.97593299]

gradient= [-3.88169400e-03 -1.11718664e-05 3.89286586e-03] w = [0.02628172 0.9977853 1.97593299] w\_new= [0.0262429 0.99778518 1.97597192]

gradient= [-3.87587726e-03 -1.11570075e-05 3.88703426e-03] w = [0.0262429 0.99778518 1.97597192] w\_new= [0.02620414 0.99778507 1.97601079]

gradient= [-3.87006932e-03 -1.11421685e-05 3.88121149e-03] w = [0.02620414 0.99778507 1.97601079] w\_new= [0.02616544 0.99778496 1.9760496 ]

gradient= [-3.86427016e-03 -1.11273492e-05 3.87539751e-03] w = [0.02616544 0.99778496 1.9760496 ] w\_new= [0.0261268 0.99778485 1.97608835]

gradient= [-3.85847978e-03 -1.11125496e-05 3.86959233e-03] w = [0.0261268 0.99778485 1.97608835] w\_new= [0.02608821 0.99778474 1.97612705]

gradient= [-3.85269816e-03 -1.10977698e-05 3.86379593e-03] w = [0.02608821 0.99778474 1.97612705] w\_new= [0.02604969 0.99778463 1.97616569]

gradient= [-3.84692529e-03 -1.10830096e-05 3.85800830e-03] w = [0.02604969 0.99778463 1.97616569] w\_new= [0.02601122 0.99778452 1.97620427]

gradient= [-3.84116114e-03 -1.10682692e-05 3.85222941e-03] w = [0.02601122 0.99778452 1.97620427] w\_new= [0.02597281 0.99778441 1.97624279]

gradient= [-3.83540572e-03 -1.10535483e-05 3.84645927e-03] w = [0.02597281 0.99778441 1.97624279] w\_new= [0.02593445 0.9977843 1.97628125]

gradient= [-3.82965900e-03 -1.10388471e-05 3.84069785e-03] w = [0.02593445 0.9977843 1.97628125] w\_new= [0.02589615 0.99778419 1.97631966]

gradient= [-3.82392097e-03 -1.10241655e-05 3.83494514e-03] w = [0.02589615 0.99778419 1.97631966] w\_new= [0.02585792 0.99778408 1.97635801]

gradient= [-3.81819162e-03 -1.10095034e-05 3.82920113e-03] w = [0.02585792 0.99778408 1.97635801] w\_new= [0.02581973 0.99778397 1.9763963 ]

gradient= [-3.81247094e-03 -1.09948608e-05 3.82346580e-03] w = [0.02581973 0.99778397 1.9763963 ] w\_new= [0.02578161 0.99778386 1.97643454]

gradient= [-3.80675891e-03 -1.09802377e-05 3.81773915e-03] w = [0.02578161 0.99778386 1.97643454] w\_new= [0.02574354 0.99778375 1.97647271]

gradient= [-3.80105552e-03 -1.09656342e-05 3.81202115e-03] w = [0.02574354 0.99778375 1.97647271] w\_new= [0.02570553 0.99778364 1.97651083]

gradient= [-3.79536075e-03 -1.09510500e-05 3.80631180e-03] w = [0.02570553 0.99778364 1.97651083] w\_new= [0.02566758 0.99778353 1.9765489 ]

gradient= [-3.78967460e-03 -1.09364853e-05 3.80061108e-03] w = [0.02566758 0.99778353 1.9765489 ] w\_new= [0.02562968 0.99778342 1.9765869 ]

gradient= [-3.78399704e-03 -1.09219400e-05 3.79491898e-03] w = [0.02562968 0.99778342 1.9765869 ] w\_new= [0.02559184 0.99778331 1.97662485]

gradient= [-3.77832807e-03 -1.09074141e-05 3.78923548e-03] w = [0.02559184 0.99778331 1.97662485] w\_new= [0.02555406 0.9977832 1.97666274]

gradient= [-3.77266767e-03 -1.08929075e-05 3.78356058e-03] w = [0.02555406 0.9977832 1.97666274] w\_new= [0.02551633 0.99778309 1.97670058]

gradient= [-3.76701583e-03 -1.08784202e-05 3.77789425e-03] w = [0.02551633 0.99778309 1.97670058] w\_new= [0.02547866 0.99778298 1.97673836]

gradient= [-3.76137254e-03 -1.08639523e-05 3.77223649e-03] w = [0.02547866 0.99778298 1.97673836] w\_new= [0.02544105 0.99778287 1.97677608]

gradient= [-3.75573778e-03 -1.08495035e-05 3.76658728e-03] w = [0.02544105 0.99778287 1.97677608] w\_new= [0.02540349 0.99778276 1.97681375]

gradient= [-3.75011154e-03 -1.08350741e-05 3.76094661e-03] w = [0.02540349 0.99778276 1.97681375] w\_new= [0.02536599 0.99778266 1.97685136]

gradient= [-3.74449380e-03 -1.08206638e-05 3.75531447e-03] w = [0.02536599 0.99778266 1.97685136] w\_new= [0.02532854 0.99778255 1.97688891]

gradient= [-3.73888456e-03 -1.08062727e-05 3.74969083e-03] w = [0.02532854 0.99778255 1.97688891] w\_new= [0.02529115 0.99778244 1.97692641]

gradient= [-3.73328380e-03 -1.07919008e-05 3.74407570e-03] w = [0.02529115 0.99778244 1.97692641] w\_new= [0.02525382 0.99778233 1.97696385]

gradient= [-3.72769151e-03 -1.07775480e-05 3.73846906e-03] w = [0.02525382 0.99778233 1.97696385] w\_new= [0.02521654 0.99778222 1.97700123]

gradient= [-3.72210767e-03 -1.07632143e-05 3.73287088e-03] w = [0.02521654 0.99778222 1.97700123] w\_new= [0.02517932 0.99778212 1.97703856]

gradient= [-3.71653227e-03 -1.07488997e-05 3.72728117e-03] w = [0.02517932 0.99778212 1.97703856] w\_new= [0.02514216 0.99778201 1.97707583]

gradient= [-3.71096530e-03 -1.07346042e-05 3.72169991e-03] w = [0.02514216 0.99778201 1.97707583] w\_new= [0.02510505 0.9977819 1.97711305]

gradient= [-3.70540675e-03 -1.07203277e-05 3.71612708e-03] w = [0.02510505 0.9977819 1.97711305] w\_new= [0.02506799 0.99778179 1.97715021]

gradient= [-3.69985660e-03 -1.07060702e-05 3.71056267e-03] w = [0.02506799 0.99778179 1.97715021] w\_new= [0.025031 0.99778169 1.97718732]

gradient= [-3.69431483e-03 -1.06918316e-05 3.70500667e-03] w = [0.025031 0.99778169 1.97718732] w\_new= [0.02499405 0.99778158 1.97722437]

gradient= [-3.68878145e-03 -1.06776120e-05 3.69945906e-03] w = [0.02499405 0.99778158 1.97722437] w\_new= [0.02495716 0.99778147 1.97726136]

gradient= [-3.68325643e-03 -1.06634114e-05 3.69391984e-03] w = [0.02495716 0.99778147 1.97726136] w\_new= [0.02492033 0.99778137 1.9772983 ]

gradient= [-3.67773976e-03 -1.06492296e-05 3.68838899e-03] w = [0.02492033 0.99778137 1.9772983 ] w\_new= [0.02488355 0.99778126 1.97733519]

gradient= [-3.67223143e-03 -1.06350668e-05 3.68286649e-03] w = [0.02488355 0.99778126 1.97733519] w\_new= [0.02484683 0.99778115 1.97737201]

gradient= [-3.66673142e-03 -1.06209227e-05 3.67735234e-03] w = [0.02484683 0.99778115 1.97737201] w\_new= [0.02481017 0.99778105 1.97740879]

gradient= [-3.66123972e-03 -1.06067975e-05 3.67184652e-03] w = [0.02481017 0.99778105 1.97740879] w\_new= [0.02477355 0.99778094 1.97744551]

gradient= [-3.65575633e-03 -1.05926911e-05 3.66634902e-03] w = [0.02477355 0.99778094 1.97744551] w\_new= [0.024737 0.99778084 1.97748217]

gradient= [-3.65028122e-03 -1.05786035e-05 3.66085982e-03] w = [0.024737 0.99778084 1.97748217] w\_new= [0.02470049 0.99778073 1.97751878]

gradient= [-3.64481438e-03 -1.05645346e-05 3.65537892e-03] w = [0.02470049 0.99778073 1.97751878] w\_new= [0.02466404 0.99778062 1.97755533]

gradient= [-3.63935581e-03 -1.05504844e-05 3.64990630e-03] w = [0.02466404 0.99778062 1.97755533] w\_new= [0.02462765 0.99778052 1.97759183]

gradient= [-3.63390549e-03 -1.05364529e-05 3.64444194e-03] w = [0.02462765 0.99778052 1.97759183] w\_new= [0.02459131 0.99778041 1.97762828]

gradient= [-3.62846340e-03 -1.05224401e-05 3.63898584e-03] w = [0.02459131 0.99778041 1.97762828] w\_new= [0.02455503 0.99778031 1.97766466]

gradient= [-3.62302953e-03 -1.05084459e-05 3.63353798e-03] w = [0.02455503 0.99778031 1.97766466] w\_new= [0.0245188 0.9977802 1.977701 ]

gradient= [-3.61760388e-03 -1.04944704e-05 3.62809835e-03] w = [0.0245188 0.9977802 1.977701 ] w\_new= [0.02448262 0.9977801 1.97773728]

gradient= [-3.61218642e-03 -1.04805134e-05 3.62266694e-03] w = [0.02448262 0.9977801 1.97773728] w\_new= [0.0244465 0.99777999 1.97777351]

gradient= [-3.60677715e-03 -1.04665751e-05 3.61724373e-03] w = [0.0244465 0.99777999 1.97777351] w\_new= [0.02441043 0.99777989 1.97780968]

gradient= [-3.60137606e-03 -1.04526552e-05 3.61182871e-03] w = [0.02441043 0.99777989 1.97780968] w\_new= [0.02437442 0.99777978 1.9778458 ]

gradient= [-3.59598312e-03 -1.04387539e-05 3.60642187e-03] w = [0.02437442 0.99777978 1.9778458 ] w\_new= [0.02433846 0.99777968 1.97788186]

gradient= [-3.59059833e-03 -1.04248710e-05 3.60102320e-03] w = [0.02433846 0.99777968 1.97788186] w\_new= [0.02430255 0.99777958 1.97791787]

gradient= [-3.58522167e-03 -1.04110067e-05 3.59563268e-03] w = [0.02430255 0.99777958 1.97791787] w\_new= [0.0242667 0.99777947 1.97795383]

gradient= [-3.57985314e-03 -1.03971608e-05 3.59025030e-03] w = [0.0242667 0.99777947 1.97795383] w\_new= [0.0242309 0.99777937 1.97798973]

gradient= [-3.57449272e-03 -1.03833332e-05 3.58487605e-03] w = [0.0242309 0.99777937 1.97798973] w\_new= [0.02419516 0.99777926 1.97802558]

gradient= [-3.56914040e-03 -1.03695241e-05 3.57950992e-03] w = [0.02419516 0.99777926 1.97802558] w\_new= [0.02415946 0.99777916 1.97806138]

gradient= [-3.56379616e-03 -1.03557334e-05 3.57415189e-03] w = [0.02415946 0.99777916 1.97806138] w\_new= [0.02412383 0.99777906 1.97809712]

gradient= [-3.55846000e-03 -1.03419610e-05 3.56880196e-03] w = [0.02412383 0.99777906 1.97809712] w\_new= [0.02408824 0.99777895 1.97813281]

gradient= [-3.55313189e-03 -1.03282069e-05 3.56346010e-03] w = [0.02408824 0.99777895 1.97813281] w\_new= [0.02405271 0.99777885 1.97816844]

gradient= [-3.54781184e-03 -1.03144711e-05 3.55812631e-03] w = [0.02405271 0.99777885 1.97816844] w\_new= [0.02401723 0.99777875 1.97820402]

gradient= [-3.54249981e-03 -1.03007535e-05 3.55280057e-03] w = [0.02401723 0.99777875 1.97820402] w\_new= [0.02398181 0.99777864 1.97823955]

gradient= [-3.53719582e-03 -1.02870542e-05 3.54748287e-03] w = [0.02398181 0.99777864 1.97823955] w\_new= [0.02394644 0.99777854 1.97827502]

gradient= [-3.53189983e-03 -1.02733732e-05 3.54217321e-03] w = [0.02394644 0.99777854 1.97827502] w\_new= [0.02391112 0.99777844 1.97831045]

gradient= [-3.52661185e-03 -1.02597103e-05 3.53687156e-03] w = [0.02391112 0.99777844 1.97831045] w\_new= [0.02387585 0.99777834 1.97834581]

gradient= [-3.52133185e-03 -1.02460655e-05 3.53157791e-03] w = [0.02387585 0.99777834 1.97834581] w\_new= [0.02384064 0.99777823 1.97838113]

gradient= [-3.51605982e-03 -1.02324390e-05 3.52629226e-03] w = [0.02384064 0.99777823 1.97838113] w\_new= [0.02380548 0.99777813 1.97841639]

gradient= [-3.51079576e-03 -1.02188305e-05 3.52101459e-03] w = [0.02380548 0.99777813 1.97841639] w\_new= [0.02377037 0.99777803 1.9784516 ]

gradient= [-3.50553964e-03 -1.02052402e-05 3.51574488e-03] w = [0.02377037 0.99777803 1.9784516 ] w\_new= [0.02373531 0.99777793 1.97848676]

gradient= [-3.50029147e-03 -1.01916679e-05 3.51048313e-03] w = [0.02373531 0.99777793 1.97848676] w\_new= [0.02370031 0.99777782 1.97852187]

gradient= [-3.49505122e-03 -1.01781136e-05 3.50522933e-03] w = [0.02370031 0.99777782 1.97852187] w\_new= [0.02366536 0.99777772 1.97855692]

gradient= [-3.48981888e-03 -1.01645774e-05 3.49998346e-03] w = [0.02366536 0.99777772 1.97855692] w\_new= [0.02363046 0.99777762 1.97859192]

gradient= [-3.48459444e-03 -1.01510591e-05 3.49474550e-03] w = [0.02363046 0.99777762 1.97859192] w\_new= [0.02359562 0.99777752 1.97862687]

gradient= [-3.47937789e-03 -1.01375589e-05 3.48951545e-03] w = [0.02359562 0.99777752 1.97862687] w\_new= [0.02356082 0.99777742 1.97866176]

gradient= [-3.47416922e-03 -1.01240766e-05 3.48429330e-03] w = [0.02356082 0.99777742 1.97866176] w\_new= [0.02352608 0.99777732 1.9786966 ]

gradient= [-3.46896842e-03 -1.01106122e-05 3.47907903e-03] w = [0.02352608 0.99777732 1.9786966 ] w\_new= [0.02349139 0.99777722 1.97873139]

gradient= [-3.46377547e-03 -1.00971657e-05 3.47387263e-03] w = [0.02349139 0.99777722 1.97873139] w\_new= [0.02345675 0.99777711 1.97876613]

gradient= [-3.45859035e-03 -1.00837370e-05 3.46867409e-03] w = [0.02345675 0.99777711 1.97876613] w\_new= [0.02342217 0.99777701 1.97880082]

gradient= [-3.45341307e-03 -1.00703263e-05 3.46348340e-03] w = [0.02342217 0.99777701 1.97880082] w\_new= [0.02338763 0.99777691 1.97883545]

gradient= [-3.44824360e-03 -1.00569333e-05 3.45830054e-03] w = [0.02338763 0.99777691 1.97883545] w\_new= [0.02335315 0.99777681 1.97887004]

gradient= [-3.44308194e-03 -1.00435581e-05 3.45312550e-03] w = [0.02335315 0.99777681 1.97887004] w\_new= [0.02331872 0.99777671 1.97890457]

gradient= [-3.43792807e-03 -1.00302008e-05 3.44795827e-03] w = [0.02331872 0.99777671 1.97890457] w\_new= [0.02328434 0.99777661 1.97893905]

gradient= [-3.43278198e-03 -1.00168611e-05 3.44279884e-03] w = [0.02328434 0.99777661 1.97893905] w\_new= [0.02325001 0.99777651 1.97897348]

gradient= [-3.42764366e-03 -1.00035393e-05 3.43764720e-03] w = [0.02325001 0.99777651 1.97897348] w\_new= [0.02321574 0.99777641 1.97900785]

gradient= [-3.42251310e-03 -9.99023506e-06 3.43250334e-03] w = [0.02321574 0.99777641 1.97900785] w\_new= [0.02318151 0.99777631 1.97904218]

gradient= [-3.41739028e-03 -9.97694855e-06 3.42736723e-03] w = [0.02318151 0.99777631 1.97904218] w\_new= [0.02314734 0.99777621 1.97907645]

gradient= [-3.41227520e-03 -9.96367970e-06 3.42223888e-03] w = [0.02314734 0.99777621 1.97907645] w\_new= [0.02311321 0.99777611 1.97911067]

gradient= [-3.40716783e-03 -9.95042847e-06 3.41711826e-03] w = [0.02311321 0.99777611 1.97911067] w\_new= [0.02307914 0.99777601 1.97914485]

gradient= [-3.40206818e-03 -9.93719486e-06 3.41200537e-03] w = [0.02307914 0.99777601 1.97914485] w\_new= [0.02304512 0.99777591 1.97917897]

gradient= [-3.39697622e-03 -9.92397883e-06 3.40690020e-03] w = [0.02304512 0.99777591 1.97917897] w\_new= [0.02301115 0.99777581 1.97921303]

gradient= [-3.39189195e-03 -9.91078036e-06 3.40180273e-03] w = [0.02301115 0.99777581 1.97921303] w\_new= [0.02297723 0.99777572 1.97924705]

gradient= [-3.38681535e-03 -9.89759942e-06 3.39671295e-03] w = [0.02297723 0.99777572 1.97924705] w\_new= [0.02294336 0.99777562 1.97928102]

gradient= [-3.38174642e-03 -9.88443600e-06 3.39163085e-03] w = [0.02294336 0.99777562 1.97928102] w\_new= [0.02290955 0.99777552 1.97931494]

gradient= [-3.37668513e-03 -9.87129007e-06 3.38655642e-03] w = [0.02290955 0.99777552 1.97931494] w\_new= [0.02287578 0.99777542 1.9793488 ]

gradient= [-3.37163149e-03 -9.85816160e-06 3.38148965e-03] w = [0.02287578 0.99777542 1.9793488 ] w\_new= [0.02284206 0.99777532 1.97938262]

gradient= [-3.36658547e-03 -9.84505058e-06 3.37643052e-03] w = [0.02284206 0.99777532 1.97938262] w\_new= [0.0228084 0.99777522 1.97941638]

gradient= [-3.36154706e-03 -9.83195697e-06 3.37137902e-03] w = [0.0228084 0.99777522 1.97941638] w\_new= [0.02277478 0.99777512 1.97945009]

gradient= [-3.35651626e-03 -9.81888076e-06 3.36633515e-03] w = [0.02277478 0.99777512 1.97945009] w\_new= [0.02274122 0.99777502 1.97948376]

gradient= [-3.35149306e-03 -9.80582192e-06 3.36129888e-03] w = [0.02274122 0.99777502 1.97948376] w\_new= [0.0227077 0.99777493 1.97951737]

gradient= [-3.34647743e-03 -9.79278042e-06 3.35627021e-03] w = [0.0227077 0.99777493 1.97951737] w\_new= [0.02267424 0.99777483 1.97955093]

gradient= [-3.34146937e-03 -9.77975625e-06 3.35124913e-03] w = [0.02267424 0.99777483 1.97955093] w\_new= [0.02264082 0.99777473 1.97958445]

gradient= [-3.33646887e-03 -9.76674938e-06 3.34623562e-03] w = [0.02264082 0.99777473 1.97958445] w\_new= [0.02260746 0.99777463 1.97961791]

gradient= [-3.33147591e-03 -9.75375979e-06 3.34122967e-03] w = [0.02260746 0.99777463 1.97961791] w\_new= [0.02257414 0.99777454 1.97965132]

gradient= [-3.32649049e-03 -9.74078745e-06 3.33623128e-03] w = [0.02257414 0.99777454 1.97965132] w\_new= [0.02254088 0.99777444 1.97968468]

gradient= [-3.32151259e-03 -9.72783233e-06 3.33124042e-03] w = [0.02254088 0.99777444 1.97968468] w\_new= [0.02250766 0.99777434 1.979718 ]

gradient= [-3.31654220e-03 -9.71489443e-06 3.32625709e-03] w = [0.02250766 0.99777434 1.979718 ] w\_new= [0.0224745 0.99777424 1.97975126]

gradient= [-3.31157931e-03 -9.70197371e-06 3.32128128e-03] w = [0.0224745 0.99777424 1.97975126] w\_new= [0.02244138 0.99777415 1.97978447]

gradient= [-3.30662390e-03 -9.68907015e-06 3.31631298e-03] w = [0.02244138 0.99777415 1.97978447] w\_new= [0.02240832 0.99777405 1.97981763]

gradient= [-3.30167598e-03 -9.67618373e-06 3.31135216e-03] w = [0.02240832 0.99777405 1.97981763] w\_new= [0.0223753 0.99777395 1.97985075]

gradient= [-3.29673552e-03 -9.66331441e-06 3.30639883e-03] w = [0.0223753 0.99777395 1.97985075] w\_new= [0.02234233 0.99777386 1.97988381]

gradient= [-3.29180251e-03 -9.65046220e-06 3.30145297e-03] w = [0.02234233 0.99777386 1.97988381] w\_new= [0.02230941 0.99777376 1.97991683]

gradient= [-3.28687694e-03 -9.63762704e-06 3.29651457e-03] w = [0.02230941 0.99777376 1.97991683] w\_new= [0.02227655 0.99777366 1.97994979]

gradient= [-3.28195881e-03 -9.62480893e-06 3.29158362e-03] w = [0.02227655 0.99777366 1.97994979] w\_new= [0.02224373 0.99777357 1.97998271]

gradient= [-3.27704809e-03 -9.61200785e-06 3.28666010e-03] w = [0.02224373 0.99777357 1.97998271] w\_new= [0.02221096 0.99777347 1.98001557]

gradient= [-3.27214479e-03 -9.59922376e-06 3.28174401e-03] w = [0.02221096 0.99777347 1.98001557] w\_new= [0.02217823 0.99777338 1.98004839]

gradient= [-3.26724887e-03 -9.58645664e-06 3.27683533e-03] w = [0.02217823 0.99777338 1.98004839] w\_new= [0.02214556 0.99777328 1.98008116]

gradient= [-3.26236035e-03 -9.57370648e-06 3.27193405e-03] w = [0.02214556 0.99777328 1.98008116] w\_new= [0.02211294 0.99777318 1.98011388]

gradient= [-3.25747920e-03 -9.56097325e-06 3.26704017e-03] w = [0.02211294 0.99777318 1.98011388] w\_new= [0.02208036 0.99777309 1.98014655]

gradient= [-3.25260541e-03 -9.54825692e-06 3.26215366e-03] w = [0.02208036 0.99777309 1.98014655] w\_new= [0.02204784 0.99777299 1.98017917]

gradient= [-3.24773897e-03 -9.53555748e-06 3.25727452e-03] w = [0.02204784 0.99777299 1.98017917] w\_new= [0.02201536 0.9977729 1.98021174]

gradient= [-3.24287987e-03 -9.52287489e-06 3.25240274e-03] w = [0.02201536 0.9977729 1.98021174] w\_new= [0.02198293 0.9977728 1.98024427]

gradient= [-3.23802810e-03 -9.51020915e-06 3.24753831e-03] w = [0.02198293 0.9977728 1.98024427] w\_new= [0.02195055 0.99777271 1.98027674]

gradient= [-3.23318365e-03 -9.49756022e-06 3.24268121e-03] w = [0.02195055 0.99777271 1.98027674] w\_new= [0.02191822 0.99777261 1.98030917]

gradient= [-3.22834650e-03 -9.48492808e-06 3.23783143e-03] w = [0.02191822 0.99777261 1.98030917] w\_new= [0.02188594 0.99777252 1.98034155]

gradient= [-3.22351665e-03 -9.47231271e-06 3.23298896e-03] w = [0.02188594 0.99777252 1.98034155] w\_new= [0.0218537 0.99777242 1.98037388]

gradient= [-3.21869408e-03 -9.45971409e-06 3.22815380e-03] w = [0.0218537 0.99777242 1.98037388] w\_new= [0.02182151 0.99777233 1.98040616]

gradient= [-3.21387879e-03 -9.44713219e-06 3.22332592e-03] w = [0.02182151 0.99777233 1.98040616] w\_new= [0.02178937 0.99777223 1.98043839]

gradient= [-3.20907076e-03 -9.43456699e-06 3.21850533e-03] w = [0.02178937 0.99777223 1.98043839] w\_new= [0.02175728 0.99777214 1.98047058]

gradient= [-3.20426998e-03 -9.42201847e-06 3.21369200e-03] w = [0.02175728 0.99777214 1.98047058] w\_new= [0.02172524 0.99777204 1.98050271]

gradient= [-3.19947644e-03 -9.40948661e-06 3.20888592e-03] w = [0.02172524 0.99777204 1.98050271] w\_new= [0.02169325 0.99777195 1.9805348 ]

gradient= [-3.19469012e-03 -9.39697139e-06 3.20408709e-03] w = [0.02169325 0.99777195 1.9805348 ] w\_new= [0.0216613 0.99777186 1.98056684]

gradient= [-3.18991103e-03 -9.38447277e-06 3.19929550e-03] w = [0.0216613 0.99777186 1.98056684] w\_new= [0.0216294 0.99777176 1.98059884]

gradient= [-3.18513914e-03 -9.37199074e-06 3.19451113e-03] w = [0.0216294 0.99777176 1.98059884] w\_new= [0.02159755 0.99777167 1.98063078]

gradient= [-3.18037444e-03 -9.35952528e-06 3.18973397e-03] w = [0.02159755 0.99777167 1.98063078] w\_new= [0.02156574 0.99777158 1.98066268]

gradient= [-3.17561693e-03 -9.34707636e-06 3.18496401e-03] w = [0.02156574 0.99777158 1.98066268] w\_new= [0.02153399 0.99777148 1.98069453]

gradient= [-3.17086659e-03 -9.33464397e-06 3.18020124e-03] w = [0.02153399 0.99777148 1.98069453] w\_new= [0.02150228 0.99777139 1.98072633]

gradient= [-3.16612342e-03 -9.32222807e-06 3.17544565e-03] w = [0.02150228 0.99777139 1.98072633] w\_new= [0.02147062 0.9977713 1.98075809]

gradient= [-3.16138740e-03 -9.30982866e-06 3.17069723e-03] w = [0.02147062 0.9977713 1.98075809] w\_new= [0.021439 0.9977712 1.98078979]

gradient= [-3.15665851e-03 -9.29744569e-06 3.16595596e-03] w = [0.021439 0.9977712 1.98078979] w\_new= [0.02140744 0.99777111 1.98082145]

gradient= [-3.15193676e-03 -9.28507916e-06 3.16122184e-03] w = [0.02140744 0.99777111 1.98082145] w\_new= [0.02137592 0.99777102 1.98085306]

gradient= [-3.14722212e-03 -9.27272904e-06 3.15649485e-03] w = [0.02137592 0.99777102 1.98085306] w\_new= [0.02134445 0.99777092 1.98088463]

gradient= [-3.14251460e-03 -9.26039531e-06 3.15177499e-03] w = [0.02134445 0.99777092 1.98088463] w\_new= [0.02131302 0.99777083 1.98091615]

gradient= [-3.13781417e-03 -9.24807794e-06 3.14706224e-03] w = [0.02131302 0.99777083 1.98091615] w\_new= [0.02128164 0.99777074 1.98094762]

gradient= [-3.13312082e-03 -9.23577692e-06 3.14235660e-03] w = [0.02128164 0.99777074 1.98094762] w\_new= [0.02125031 0.99777065 1.98097904]

gradient= [-3.12843455e-03 -9.22349222e-06 3.13765804e-03] w = [0.02125031 0.99777065 1.98097904] w\_new= [0.02121903 0.99777055 1.98101042]

gradient= [-3.12375535e-03 -9.21122382e-06 3.13296657e-03] w = [0.02121903 0.99777055 1.98101042] w\_new= [0.02118779 0.99777046 1.98104175]

gradient= [-3.11908319e-03 -9.19897170e-06 3.12828216e-03] w = [0.02118779 0.99777046 1.98104175] w\_new= [0.0211566 0.99777037 1.98107303]

gradient= [-3.11441808e-03 -9.18673583e-06 3.12360482e-03] w = [0.0211566 0.99777037 1.98107303] w\_new= [0.02112546 0.99777028 1.98110427]

gradient= [-3.10976001e-03 -9.17451620e-06 3.11893452e-03] w = [0.02112546 0.99777028 1.98110427] w\_new= [0.02109436 0.99777019 1.98113546]

gradient= [-3.10510895e-03 -9.16231278e-06 3.11427126e-03] w = [0.02109436 0.99777019 1.98113546] w\_new= [0.02106331 0.9977701 1.9811666 ]

gradient= [-3.10046490e-03 -9.15012555e-06 3.10961503e-03] w = [0.02106331 0.9977701 1.9811666 ] w\_new= [0.0210323 0.99777 1.98119769]

gradient= [-3.09582786e-03 -9.13795449e-06 3.10496581e-03] w = [0.0210323 0.99777 1.98119769] w\_new= [0.02100134 0.99776991 1.98122874]

gradient= [-3.09119780e-03 -9.12579958e-06 3.10032360e-03] w = [0.02100134 0.99776991 1.98122874] w\_new= [0.02097043 0.99776982 1.98125975]

gradient= [-3.08657472e-03 -9.11366079e-06 3.09568838e-03] w = [0.02097043 0.99776982 1.98125975] w\_new= [0.02093957 0.99776973 1.9812907 ]

gradient= [-3.08195861e-03 -9.10153810e-06 3.09106014e-03] w = [0.02093957 0.99776973 1.9812907 ] w\_new= [0.02090875 0.99776964 1.98132161]

gradient= [-3.07734945e-03 -9.08943150e-06 3.08643888e-03] w = [0.02090875 0.99776964 1.98132161] w\_new= [0.02087797 0.99776955 1.98135248]

gradient= [-3.07274724e-03 -9.07734095e-06 3.08182458e-03] w = [0.02087797 0.99776955 1.98135248] w\_new= [0.02084725 0.99776946 1.9813833 ]

gradient= [-3.06815197e-03 -9.06526644e-06 3.07721723e-03] w = [0.02084725 0.99776946 1.9813833 ] w\_new= [0.02081656 0.99776937 1.98141407]

gradient= [-3.06356362e-03 -9.05320795e-06 3.07261683e-03] w = [0.02081656 0.99776937 1.98141407] w\_new= [0.02078593 0.99776928 1.9814448 ]

gradient= [-3.05898218e-03 -9.04116546e-06 3.06802335e-03] w = [0.02078593 0.99776928 1.9814448 ] w\_new= [0.02075534 0.99776919 1.98147548]

gradient= [-3.05440765e-03 -9.02913893e-06 3.06343679e-03] w = [0.02075534 0.99776919 1.98147548] w\_new= [0.02072479 0.9977691 1.98150611]

gradient= [-3.04984002e-03 -9.01712836e-06 3.05885715e-03] w = [0.02072479 0.9977691 1.98150611] w\_new= [0.0206943 0.99776901 1.9815367 ]

gradient= [-3.04527926e-03 -9.00513372e-06 3.05428440e-03] w = [0.0206943 0.99776901 1.9815367 ] w\_new= [0.02066384 0.99776891 1.98156724]

gradient= [-3.04072538e-03 -8.99315499e-06 3.04971854e-03] w = [0.02066384 0.99776891 1.98156724] w\_new= [0.02063344 0.99776883 1.98159774]

gradient= [-3.03617836e-03 -8.98119214e-06 3.04515955e-03] w = [0.02063344 0.99776883 1.98159774] w\_new= [0.02060307 0.99776874 1.98162819]

gradient= [-3.03163819e-03 -8.96924516e-06 3.04060744e-03] w = [0.02060307 0.99776874 1.98162819] w\_new= [0.02057276 0.99776865 1.9816586 ]

gradient= [-3.02710486e-03 -8.95731403e-06 3.03606218e-03] w = [0.02057276 0.99776865 1.9816586 ] w\_new= [0.02054249 0.99776856 1.98168896]

gradient= [-3.02257837e-03 -8.94539872e-06 3.03152376e-03] w = [0.02054249 0.99776856 1.98168896] w\_new= [0.02051226 0.99776847 1.98171927]

gradient= [-3.01805869e-03 -8.93349921e-06 3.02699219e-03] w = [0.02051226 0.99776847 1.98171927] w\_new= [0.02048208 0.99776838 1.98174954]

gradient= [-3.01354582e-03 -8.92161548e-06 3.02246743e-03] w = [0.02048208 0.99776838 1.98174954] w\_new= [0.02045194 0.99776829 1.98177977]

gradient= [-3.00903975e-03 -8.90974751e-06 3.01794950e-03] w = [0.02045194 0.99776829 1.98177977] w\_new= [0.02042185 0.9977682 1.98180995]

gradient= [-3.00454047e-03 -8.89789527e-06 3.01343836e-03] w = [0.02042185 0.9977682 1.98180995] w\_new= [0.02039181 0.99776811 1.98184008]

gradient= [-3.00004797e-03 -8.88605876e-06 3.00893402e-03] w = [0.02039181 0.99776811 1.98184008] w\_new= [0.02036181 0.99776802 1.98187017]

gradient= [-2.99556223e-03 -8.87423794e-06 3.00443647e-03] w = [0.02036181 0.99776802 1.98187017] w\_new= [0.02033185 0.99776793 1.98190021]

gradient= [-2.99108325e-03 -8.86243279e-06 2.99994569e-03] w = [0.02033185 0.99776793 1.98190021] w\_new= [0.02030194 0.99776784 1.98193021]

gradient= [-2.98661102e-03 -8.85064330e-06 2.99546167e-03] w = [0.02030194 0.99776784 1.98193021] w\_new= [0.02027208 0.99776776 1.98196017]

gradient= [-2.98214553e-03 -8.83886944e-06 2.99098440e-03] w = [0.02027208 0.99776776 1.98196017] w\_new= [0.02024225 0.99776767 1.98199008]

gradient= [-2.97768676e-03 -8.82711119e-06 2.98651387e-03] w = [0.02024225 0.99776767 1.98199008] w\_new= [0.02021248 0.99776758 1.98201994]

gradient= [-2.97323471e-03 -8.81536853e-06 2.98205008e-03] w = [0.02021248 0.99776758 1.98201994] w\_new= [0.02018275 0.99776749 1.98204976]

gradient= [-2.96878937e-03 -8.80364145e-06 2.97759301e-03] w = [0.02018275 0.99776749 1.98204976] w\_new= [0.02015306 0.9977674 1.98207954]

gradient= [-2.96435072e-03 -8.79192990e-06 2.97314265e-03] w = [0.02015306 0.9977674 1.98207954] w\_new= [0.02012341 0.99776731 1.98210927]

gradient= [-2.95991876e-03 -8.78023389e-06 2.96869899e-03] w = [0.02012341 0.99776731 1.98210927] w\_new= [0.02009381 0.99776723 1.98213896]

gradient= [-2.95549347e-03 -8.76855339e-06 2.96426202e-03] w = [0.02009381 0.99776723 1.98213896] w\_new= [0.02006426 0.99776714 1.9821686 ]

gradient= [-2.95107485e-03 -8.75688836e-06 2.95983174e-03] w = [0.02006426 0.99776714 1.9821686 ] w\_new= [0.02003475 0.99776705 1.9821982 ]

gradient= [-2.94666288e-03 -8.74523881e-06 2.95540812e-03] w = [0.02003475 0.99776705 1.9821982 ] w\_new= [0.02000528 0.99776696 1.98222775]

gradient= [-2.94225756e-03 -8.73360470e-06 2.95099116e-03] w = [0.02000528 0.99776696 1.98222775] w\_new= [0.01997586 0.99776688 1.98225726]

gradient= [-2.93785887e-03 -8.72198601e-06 2.94658086e-03] w = [0.01997586 0.99776688 1.98225726] w\_new= [0.01994648 0.99776679 1.98228673]

gradient= [-2.93346681e-03 -8.71038272e-06 2.94217719e-03] w = [0.01994648 0.99776679 1.98228673] w\_new= [0.01991715 0.9977667 1.98231615]

gradient= [-2.92908136e-03 -8.69879481e-06 2.93778015e-03] w = [0.01991715 0.9977667 1.98231615] w\_new= [0.01988786 0.99776662 1.98234553]

gradient= [-2.92470252e-03 -8.68722227e-06 2.93338974e-03] w = [0.01988786 0.99776662 1.98234553] w\_new= [0.01985861 0.99776653 1.98237486]

gradient= [-2.92033027e-03 -8.67566507e-06 2.92900593e-03] w = [0.01985861 0.99776653 1.98237486] w\_new= [0.01982941 0.99776644 1.98240415]

gradient= [-2.91596460e-03 -8.66412318e-06 2.92462872e-03] w = [0.01982941 0.99776644 1.98240415] w\_new= [0.01980025 0.99776635 1.9824334 ]

gradient= [-2.91160551e-03 -8.65259660e-06 2.92025810e-03] w = [0.01980025 0.99776635 1.9824334 ] w\_new= [0.01977113 0.99776627 1.9824626 ]

gradient= [-2.90725298e-03 -8.64108529e-06 2.91589407e-03] w = [0.01977113 0.99776627 1.9824626 ] w\_new= [0.01974206 0.99776618 1.98249176]

gradient= [-2.90290701e-03 -8.62958924e-06 2.91153660e-03] w = [0.01974206 0.99776618 1.98249176] w\_new= [0.01971303 0.9977661 1.98252088]

gradient= [-2.89856758e-03 -8.61810843e-06 2.90718569e-03] w = [0.01971303 0.9977661 1.98252088] w\_new= [0.01968404 0.99776601 1.98254995]

gradient= [-2.89423468e-03 -8.60664284e-06 2.90284132e-03] w = [0.01968404 0.99776601 1.98254995] w\_new= [0.0196551 0.99776592 1.98257898]

gradient= [-2.88990831e-03 -8.59519244e-06 2.89850350e-03] w = [0.0196551 0.99776592 1.98257898] w\_new= [0.0196262 0.99776584 1.98260796]

gradient= [-2.88558845e-03 -8.58375722e-06 2.89417221e-03] w = [0.0196262 0.99776584 1.98260796] w\_new= [0.01959735 0.99776575 1.9826369 ]

gradient= [-2.88127510e-03 -8.57233716e-06 2.88984744e-03] w = [0.01959735 0.99776575 1.9826369 ] w\_new= [0.01956853 0.99776567 1.9826658 ]

gradient= [-2.87696824e-03 -8.56093223e-06 2.88552917e-03] w = [0.01956853 0.99776567 1.9826658 ] w\_new= [0.01953976 0.99776558 1.98269466]

gradient= [-2.87266787e-03 -8.54954241e-06 2.88121741e-03] w = [0.01953976 0.99776558 1.98269466] w\_new= [0.01951104 0.99776549 1.98272347]

gradient= [-2.86837397e-03 -8.53816769e-06 2.87691213e-03] w = [0.01951104 0.99776549 1.98272347] w\_new= [0.01948235 0.99776541 1.98275224]

gradient= [-2.86408653e-03 -8.52680805e-06 2.87261334e-03] w = [0.01948235 0.99776541 1.98275224] w\_new= [0.01945371 0.99776532 1.98278096]

gradient= [-2.85980555e-03 -8.51546346e-06 2.86832101e-03] w = [0.01945371 0.99776532 1.98278096] w\_new= [0.01942511 0.99776524 1.98280965]

gradient= [-2.85553101e-03 -8.50413390e-06 2.86403515e-03] w = [0.01942511 0.99776524 1.98280965] w\_new= [0.01939656 0.99776515 1.98283829]

gradient= [-2.85126291e-03 -8.49281936e-06 2.85975573e-03] w = [0.01939656 0.99776515 1.98283829] w\_new= [0.01936805 0.99776507 1.98286689]

gradient= [-2.84700124e-03 -8.48151981e-06 2.85548276e-03] w = [0.01936805 0.99776507 1.98286689] w\_new= [0.01933958 0.99776498 1.98289544]

gradient= [-2.84274598e-03 -8.47023523e-06 2.85121621e-03] w = [0.01933958 0.99776498 1.98289544] w\_new= [0.01931115 0.9977649 1.98292395]

gradient= [-2.83849712e-03 -8.45896561e-06 2.84695609e-03] w = [0.01931115 0.9977649 1.98292395] w\_new= [0.01928276 0.99776481 1.98295242]

gradient= [-2.83425466e-03 -8.44771092e-06 2.84270237e-03] w = [0.01928276 0.99776481 1.98295242] w\_new= [0.01925442 0.99776473 1.98298085]

gradient= [-2.83001859e-03 -8.43647114e-06 2.83845506e-03] w = [0.01925442 0.99776473 1.98298085] w\_new= [0.01922612 0.99776465 1.98300923]

gradient= [-2.82578889e-03 -8.42524626e-06 2.83421414e-03] w = [0.01922612 0.99776465 1.98300923] w\_new= [0.01919786 0.99776456 1.98303758]

gradient= [-2.82156556e-03 -8.41403625e-06 2.82997960e-03] w = [0.01919786 0.99776456 1.98303758] w\_new= [0.01916965 0.99776448 1.98306588]

gradient= [-2.81734859e-03 -8.40284109e-06 2.82575143e-03] w = [0.01916965 0.99776448 1.98306588] w\_new= [0.01914147 0.99776439 1.98309413]

gradient= [-2.81313796e-03 -8.39166076e-06 2.82152962e-03] w = [0.01914147 0.99776439 1.98309413] w\_new= [0.01911334 0.99776431 1.98312235]

gradient= [-2.80893367e-03 -8.38049525e-06 2.81731417e-03] w = [0.01911334 0.99776431 1.98312235] w\_new= [0.01908525 0.99776423 1.98315052]

gradient= [-2.80473571e-03 -8.36934454e-06 2.81310506e-03] w = [0.01908525 0.99776423 1.98315052] w\_new= [0.01905721 0.99776414 1.98317865]

gradient= [-2.80054407e-03 -8.35820859e-06 2.80890228e-03] w = [0.01905721 0.99776414 1.98317865] w\_new= [0.0190292 0.99776406 1.98320674]

gradient= [-2.79635873e-03 -8.34708740e-06 2.80470582e-03] w = [0.0190292 0.99776406 1.98320674] w\_new= [0.01900124 0.99776398 1.98323479]

gradient= [-2.79217970e-03 -8.33598095e-06 2.80051568e-03] w = [0.01900124 0.99776398 1.98323479] w\_new= [0.01897331 0.99776389 1.98326279]

gradient= [-2.78800695e-03 -8.32488921e-06 2.79633184e-03] w = [0.01897331 0.99776389 1.98326279] w\_new= [0.01894543 0.99776381 1.98329076]

gradient= [-2.78384048e-03 -8.31381216e-06 2.79215430e-03] w = [0.01894543 0.99776381 1.98329076] w\_new= [0.0189176 0.99776373 1.98331868]

gradient= [-2.77968029e-03 -8.30274979e-06 2.78798304e-03] w = [0.0189176 0.99776373 1.98331868] w\_new= [0.0188898 0.99776364 1.98334656]

gradient= [-2.77552635e-03 -8.29170207e-06 2.78381805e-03] w = [0.0188898 0.99776364 1.98334656] w\_new= [0.01886204 0.99776356 1.9833744 ]

gradient= [-2.77137867e-03 -8.28066899e-06 2.77965934e-03] w = [0.01886204 0.99776356 1.9833744 ] w\_new= [0.01883433 0.99776348 1.98340219]

gradient= [-2.76723722e-03 -8.26965052e-06 2.77550687e-03] w = [0.01883433 0.99776348 1.98340219] w\_new= [0.01880666 0.99776339 1.98342995]

gradient= [-2.76310201e-03 -8.25864666e-06 2.77136066e-03] w = [0.01880666 0.99776339 1.98342995] w\_new= [0.01877903 0.99776331 1.98345766]

gradient= [-2.75897302e-03 -8.24765736e-06 2.76722068e-03] w = [0.01877903 0.99776331 1.98345766] w\_new= [0.01875144 0.99776323 1.98348533]

gradient= [-2.75485025e-03 -8.23668263e-06 2.76308693e-03] w = [0.01875144 0.99776323 1.98348533] w\_new= [0.01872389 0.99776315 1.98351296]

gradient= [-2.75073367e-03 -8.22572243e-06 2.75895940e-03] w = [0.01872389 0.99776315 1.98351296] w\_new= [0.01869638 0.99776306 1.98354055]

gradient= [-2.74662329e-03 -8.21477675e-06 2.75483807e-03] w = [0.01869638 0.99776306 1.98354055] w\_new= [0.01866891 0.99776298 1.9835681 ]

gradient= [-2.74251910e-03 -8.20384557e-06 2.75072295e-03] w = [0.01866891 0.99776298 1.9835681 ] w\_new= [0.01864149 0.9977629 1.98359561]

gradient= [-2.73842108e-03 -8.19292886e-06 2.74661401e-03] w = [0.01864149 0.9977629 1.98359561] w\_new= [0.01861411 0.99776282 1.98362308]

gradient= [-2.73432923e-03 -8.18202662e-06 2.74251125e-03] w = [0.01861411 0.99776282 1.98362308] w\_new= [0.01858676 0.99776274 1.9836505 ]

gradient= [-2.73024353e-03 -8.17113882e-06 2.73841467e-03] w = [0.01858676 0.99776274 1.9836505 ] w\_new= [0.01855946 0.99776265 1.98367789]

gradient= [-2.72616398e-03 -8.16026544e-06 2.73432425e-03] w = [0.01855946 0.99776265 1.98367789] w\_new= [0.0185322 0.99776257 1.98370523]

gradient= [-2.72209057e-03 -8.14940646e-06 2.73023997e-03] w = [0.0185322 0.99776257 1.98370523] w\_new= [0.01850498 0.99776249 1.98373253]

gradient= [-2.71802328e-03 -8.13856186e-06 2.72616185e-03] w = [0.01850498 0.99776249 1.98373253] w\_new= [0.0184778 0.99776241 1.98375979]

gradient= [-2.71396212e-03 -8.12773163e-06 2.72208985e-03] w = [0.0184778 0.99776241 1.98375979] w\_new= [0.01845066 0.99776233 1.98378701]

gradient= [-2.70990706e-03 -8.11691574e-06 2.71802398e-03] w = [0.01845066 0.99776233 1.98378701] w\_new= [0.01842356 0.99776225 1.98381419]

gradient= [-2.70585811e-03 -8.10611417e-06 2.71396422e-03] w = [0.01842356 0.99776225 1.98381419] w\_new= [0.0183965 0.99776217 1.98384133]

gradient= [-2.70181524e-03 -8.09532691e-06 2.70991057e-03] w = [0.0183965 0.99776217 1.98384133] w\_new= [0.01836948 0.99776209 1.98386843]

gradient= [-2.69777846e-03 -8.08455394e-06 2.70586301e-03] w = [0.01836948 0.99776209 1.98386843] w\_new= [0.0183425 0.997762 1.98389549]

gradient= [-2.69374775e-03 -8.07379523e-06 2.70182154e-03] w = [0.0183425 0.997762 1.98389549] w\_new= [0.01831557 0.99776192 1.98392251]

gradient= [-2.68972310e-03 -8.06305077e-06 2.69778615e-03] w = [0.01831557 0.99776192 1.98392251] w\_new= [0.01828867 0.99776184 1.98394949]

gradient= [-2.68570451e-03 -8.05232054e-06 2.69375683e-03] w = [0.01828867 0.99776184 1.98394949] w\_new= [0.01826181 0.99776176 1.98397642]

gradient= [-2.68169196e-03 -8.04160452e-06 2.68973356e-03] w = [0.01826181 0.99776176 1.98397642] w\_new= [0.018235 0.99776168 1.98400332]

gradient= [-2.67768544e-03 -8.03090269e-06 2.68571635e-03] w = [0.018235 0.99776168 1.98400332] w\_new= [0.01820822 0.9977616 1.98403018]

gradient= [-2.67368496e-03 -8.02021504e-06 2.68170517e-03] w = [0.01820822 0.9977616 1.98403018] w\_new= [0.01818148 0.99776152 1.984057 ]

gradient= [-2.66969049e-03 -8.00954153e-06 2.67770003e-03] w = [0.01818148 0.99776152 1.984057 ] w\_new= [0.01815478 0.99776144 1.98408377]

gradient= [-2.66570202e-03 -7.99888216e-06 2.67370091e-03] w = [0.01815478 0.99776144 1.98408377] w\_new= [0.01812813 0.99776136 1.98411051]

gradient= [-2.66171956e-03 -7.98823691e-06 2.66970780e-03] w = [0.01812813 0.99776136 1.98411051] w\_new= [0.01810151 0.99776128 1.98413721]

gradient= [-2.65774309e-03 -7.97760575e-06 2.66572069e-03] w = [0.01810151 0.99776128 1.98413721] w\_new= [0.01807493 0.9977612 1.98416386]

gradient= [-2.65377259e-03 -7.96698866e-06 2.66173958e-03] w = [0.01807493 0.9977612 1.98416386] w\_new= [0.0180484 0.99776112 1.98419048]

gradient= [-2.64980807e-03 -7.95638564e-06 2.65776445e-03] w = [0.0180484 0.99776112 1.98419048] w\_new= [0.0180219 0.99776104 1.98421706]

gradient= [-2.64584951e-03 -7.94579666e-06 2.65379531e-03] w = [0.0180219 0.99776104 1.98421706] w\_new= [0.01799544 0.99776096 1.9842436 ]

gradient= [-2.64189690e-03 -7.93522169e-06 2.64983212e-03] w = [0.01799544 0.99776096 1.9842436 ] w\_new= [0.01796902 0.99776088 1.9842701 ]

gradient= [-2.63795024e-03 -7.92466073e-06 2.64587490e-03] w = [0.01796902 0.99776088 1.9842701 ] w\_new= [0.01794264 0.99776081 1.98429655]

gradient= [-2.63400951e-03 -7.91411375e-06 2.64192363e-03] w = [0.01794264 0.99776081 1.98429655] w\_new= [0.0179163 0.99776073 1.98432297]

gradient= [-2.63007471e-03 -7.90358074e-06 2.63797829e-03] w = [0.0179163 0.99776073 1.98432297] w\_new= [0.01789 0.99776065 1.98434935]

gradient= [-2.62614583e-03 -7.89306167e-06 2.63403889e-03] w = [0.01789 0.99776065 1.98434935] w\_new= [0.01786374 0.99776057 1.98437569]

gradient= [-2.62222285e-03 -7.88255653e-06 2.63010541e-03] w = [0.01786374 0.99776057 1.98437569] w\_new= [0.01783752 0.99776049 1.984402 ]

gradient= [-2.61830577e-03 -7.87206530e-06 2.62617784e-03] w = [0.01783752 0.99776049 1.984402 ] w\_new= [0.01781133 0.99776041 1.98442826]

gradient= [-2.61439458e-03 -7.86158796e-06 2.62225617e-03] w = [0.01781133 0.99776041 1.98442826] w\_new= [0.01778519 0.99776033 1.98445448]

gradient= [-2.61048928e-03 -7.85112449e-06 2.61834040e-03] w = [0.01778519 0.99776033 1.98445448] w\_new= [0.01775908 0.99776025 1.98448066]

gradient= [-2.60658984e-03 -7.84067487e-06 2.61443052e-03] w = [0.01775908 0.99776025 1.98448066] w\_new= [0.01773302 0.99776017 1.98450681]

gradient= [-2.60269627e-03 -7.83023909e-06 2.61052651e-03] w = [0.01773302 0.99776017 1.98450681] w\_new= [0.01770699 0.9977601 1.98453291]

gradient= [-2.59880855e-03 -7.81981712e-06 2.60662837e-03] w = [0.01770699 0.9977601 1.98453291] w\_new= [0.017681 0.99776002 1.98455898]

gradient= [-2.59492668e-03 -7.80940895e-06 2.60273609e-03] w = [0.017681 0.99776002 1.98455898] w\_new= [0.01765505 0.99775994 1.98458501]

gradient= [-2.59105065e-03 -7.79901456e-06 2.59884966e-03] w = [0.01765505 0.99775994 1.98458501] w\_new= [0.01762914 0.99775986 1.98461099]

gradient= [-2.58718044e-03 -7.78863393e-06 2.59496907e-03] w = [0.01762914 0.99775986 1.98461099] w\_new= [0.01760327 0.99775978 1.98463694]

gradient= [-2.58331605e-03 -7.77826704e-06 2.59109432e-03] w = [0.01760327 0.99775978 1.98463694] w\_new= [0.01757744 0.99775971 1.98466286]

gradient= [-2.57945747e-03 -7.76791387e-06 2.58722538e-03] w = [0.01757744 0.99775971 1.98466286] w\_new= [0.01755164 0.99775963 1.98468873]

gradient= [-2.57560469e-03 -7.75757441e-06 2.58336227e-03] w = [0.01755164 0.99775963 1.98468873] w\_new= [0.01752589 0.99775955 1.98471456]

gradient= [-2.57175770e-03 -7.74724864e-06 2.57950495e-03] w = [0.01752589 0.99775955 1.98471456] w\_new= [0.01750017 0.99775947 1.98474036]

gradient= [-2.56791650e-03 -7.73693654e-06 2.57565344e-03] w = [0.01750017 0.99775947 1.98474036] w\_new= [0.01747449 0.9977594 1.98476611]

gradient= [-2.56408107e-03 -7.72663808e-06 2.57180771e-03] w = [0.01747449 0.9977594 1.98476611] w\_new= [0.01744885 0.99775932 1.98479183]

gradient= [-2.56025141e-03 -7.71635326e-06 2.56796776e-03] w = [0.01744885 0.99775932 1.98479183] w\_new= [0.01742325 0.99775924 1.98481751]

gradient= [-2.55642750e-03 -7.70608205e-06 2.56413358e-03] w = [0.01742325 0.99775924 1.98481751] w\_new= [0.01739768 0.99775917 1.98484315]

gradient= [-2.55260934e-03 -7.69582444e-06 2.56030517e-03] w = [0.01739768 0.99775917 1.98484315] w\_new= [0.01737216 0.99775909 1.98486875]

gradient= [-2.54879693e-03 -7.68558041e-06 2.55648251e-03] w = [0.01737216 0.99775909 1.98486875] w\_new= [0.01734667 0.99775901 1.98489432]

gradient= [-2.54499024e-03 -7.67534993e-06 2.55266559e-03] w = [0.01734667 0.99775901 1.98489432] w\_new= [0.01732122 0.99775893 1.98491985]

gradient= [-2.54118927e-03 -7.66513300e-06 2.54885440e-03] w = [0.01732122 0.99775893 1.98491985] w\_new= [0.01729581 0.99775886 1.98494533]

gradient= [-2.53739402e-03 -7.65492959e-06 2.54504895e-03] w = [0.01729581 0.99775886 1.98494533] w\_new= [0.01727043 0.99775878 1.98497079]

gradient= [-2.53360447e-03 -7.64473969e-06 2.54124921e-03] w = [0.01727043 0.99775878 1.98497079] w\_new= [0.0172451 0.9977587 1.9849962]

gradient= [-2.52982062e-03 -7.63456327e-06 2.53745518e-03] w = [0.0172451 0.9977587 1.9849962] w\_new= [0.0172198 0.99775863 1.98502157]

gradient= [-2.52604245e-03 -7.62440032e-06 2.53366685e-03] w = [0.0172198 0.99775863 1.98502157] w\_new= [0.01719454 0.99775855 1.98504691]

gradient= [-2.52226997e-03 -7.61425082e-06 2.52988422e-03] w = [0.01719454 0.99775855 1.98504691] w\_new= [0.01716932 0.99775848 1.98507221]

gradient= [-2.51850315e-03 -7.60411476e-06 2.52610726e-03] w = [0.01716932 0.99775848 1.98507221] w\_new= [0.01714413 0.9977584 1.98509747]

gradient= [-2.51474199e-03 -7.59399211e-06 2.52233599e-03] w = [0.01714413 0.9977584 1.98509747] w\_new= [0.01711898 0.99775832 1.98512269]

gradient= [-2.51098649e-03 -7.58388286e-06 2.51857037e-03] w = [0.01711898 0.99775832 1.98512269] w\_new= [0.01709387 0.99775825 1.98514788]

gradient= [-2.50723663e-03 -7.57378699e-06 2.51481042e-03] w = [0.01709387 0.99775825 1.98514788] w\_new= [0.0170688 0.99775817 1.98517303]

gradient= [-2.50349241e-03 -7.56370448e-06 2.51105611e-03] w = [0.0170688 0.99775817 1.98517303] w\_new= [0.01704377 0.9977581 1.98519814]

gradient= [-2.49975381e-03 -7.55363531e-06 2.50730745e-03] w = [0.01704377 0.9977581 1.98519814] w\_new= [0.01701877 0.99775802 1.98522321]

gradient= [-2.49602084e-03 -7.54357947e-06 2.50356441e-03] w = [0.01701877 0.99775802 1.98522321] w\_new= [0.01699381 0.99775795 1.98524825]

gradient= [-2.49229347e-03 -7.53353694e-06 2.49982700e-03] w = [0.01699381 0.99775795 1.98524825] w\_new= [0.01696889 0.99775787 1.98527324]

gradient= [-2.48857170e-03 -7.52350769e-06 2.49609521e-03] w = [0.01696889 0.99775787 1.98527324] w\_new= [0.016944 0.9977578 1.9852982]

gradient= [-2.48485553e-03 -7.51349172e-06 2.49236902e-03] w = [0.016944 0.9977578 1.9852982] w\_new= [0.01691915 0.99775772 1.98532313]

gradient= [-2.48114494e-03 -7.50348901e-06 2.48864842e-03] w = [0.01691915 0.99775772 1.98532313] w\_new= [0.01689434 0.99775765 1.98534801]

gradient= [-2.47743992e-03 -7.49349953e-06 2.48493342e-03] w = [0.01689434 0.99775765 1.98534801] w\_new= [0.01686957 0.99775757 1.98537286]

gradient= [-2.47374047e-03 -7.48352327e-06 2.48122400e-03] w = [0.01686957 0.99775757 1.98537286] w\_new= [0.01684483 0.9977575 1.98539768]

gradient= [-2.47004659e-03 -7.47356022e-06 2.47752015e-03] w = [0.01684483 0.9977575 1.98539768] w\_new= [0.01682013 0.99775742 1.98542245]

gradient= [-2.46635825e-03 -7.46361034e-06 2.47382186e-03] w = [0.01682013 0.99775742 1.98542245] w\_new= [0.01679546 0.99775735 1.98544719]

gradient= [-2.46267545e-03 -7.45367364e-06 2.47012913e-03] w = [0.01679546 0.99775735 1.98544719] w\_new= [0.01677084 0.99775727 1.98547189]

gradient= [-2.45899819e-03 -7.44375008e-06 2.46644194e-03] w = [0.01677084 0.99775727 1.98547189] w\_new= [0.01674625 0.9977572 1.98549656]

gradient= [-2.45532645e-03 -7.43383966e-06 2.46276029e-03] w = [0.01674625 0.9977572 1.98549656] w\_new= [0.01672169 0.99775712 1.98552118]

gradient= [-2.45166023e-03 -7.42394235e-06 2.45908417e-03] w = [0.01672169 0.99775712 1.98552118] w\_new= [0.01669718 0.99775705 1.98554577]

gradient= [-2.44799952e-03 -7.41405813e-06 2.45541358e-03] w = [0.01669718 0.99775705 1.98554577] w\_new= [0.0166727 0.99775697 1.98557033]

gradient= [-2.44434431e-03 -7.40418700e-06 2.45174849e-03] w = [0.0166727 0.99775697 1.98557033] w\_new= [0.01664825 0.9977569 1.98559485]

gradient= [-2.44069459e-03 -7.39432892e-06 2.44808891e-03] w = [0.01664825 0.9977569 1.98559485] w\_new= [0.01662385 0.99775683 1.98561933]

gradient= [-2.43705035e-03 -7.38448389e-06 2.44443483e-03] w = [0.01662385 0.99775683 1.98561933] w\_new= [0.01659948 0.99775675 1.98564377]

gradient= [-2.43341158e-03 -7.37465189e-06 2.44078624e-03] w = [0.01659948 0.99775675 1.98564377] w\_new= [0.01657514 0.99775668 1.98566818]

gradient= [-2.42977829e-03 -7.36483290e-06 2.43714312e-03] w = [0.01657514 0.99775668 1.98566818] w\_new= [0.01655084 0.99775661 1.98569255]

gradient= [-2.42615045e-03 -7.35502690e-06 2.43350548e-03] w = [0.01655084 0.99775661 1.98569255] w\_new= [0.01652658 0.99775653 1.98571689]

gradient= [-2.42252806e-03 -7.34523387e-06 2.42987329e-03] w = [0.01652658 0.99775653 1.98571689] w\_new= [0.01650236 0.99775646 1.98574118]

gradient= [-2.41891111e-03 -7.33545380e-06 2.42624657e-03] w = [0.01650236 0.99775646 1.98574118] w\_new= [0.01647817 0.99775638 1.98576545]

gradient= [-2.41529960e-03 -7.32568667e-06 2.42262529e-03] w = [0.01647817 0.99775638 1.98576545] w\_new= [0.01645402 0.99775631 1.98578967]

gradient= [-2.41169351e-03 -7.31593247e-06 2.41900944e-03] w = [0.01645402 0.99775631 1.98578967] w\_new= [0.0164299 0.99775624 1.98581386]

gradient= [-2.40809284e-03 -7.30619117e-06 2.41539903e-03] w = [0.0164299 0.99775624 1.98581386] w\_new= [0.01640582 0.99775617 1.98583802]

gradient= [-2.40449758e-03 -7.29646276e-06 2.41179404e-03] w = [0.01640582 0.99775617 1.98583802] w\_new= [0.01638177 0.99775609 1.98586213]

gradient= [-2.40090772e-03 -7.28674722e-06 2.40819446e-03] w = [0.01638177 0.99775609 1.98586213] w\_new= [0.01635776 0.99775602 1.98588622]

gradient= [-2.39732325e-03 -7.27704453e-06 2.40460029e-03] w = [0.01635776 0.99775602 1.98588622] w\_new= [0.01633379 0.99775595 1.98591026]

gradient= [-2.39374416e-03 -7.26735468e-06 2.40101151e-03] w = [0.01633379 0.99775595 1.98591026] w\_new= [0.01630985 0.99775587 1.98593427]

gradient= [-2.39017045e-03 -7.25767765e-06 2.39742813e-03] w = [0.01630985 0.99775587 1.98593427] w\_new= [0.01628595 0.9977558 1.98595825]

gradient= [-2.38660211e-03 -7.24801343e-06 2.39385012e-03] w = [0.01628595 0.9977558 1.98595825] w\_new= [0.01626209 0.99775573 1.98598219]

gradient= [-2.38303912e-03 -7.23836199e-06 2.39027748e-03] w = [0.01626209 0.99775573 1.98598219] w\_new= [0.01623826 0.99775566 1.98600609]

gradient= [-2.37948149e-03 -7.22872331e-06 2.38671021e-03] w = [0.01623826 0.99775566 1.98600609] w\_new= [0.01621446 0.99775558 1.98602996]

gradient= [-2.37592920e-03 -7.21909739e-06 2.38314830e-03] w = [0.01621446 0.99775558 1.98602996] w\_new= [0.0161907 0.99775551 1.98605379]

gradient= [-2.37238225e-03 -7.20948421e-06 2.37959173e-03] w = [0.0161907 0.99775551 1.98605379] w\_new= [0.01616698 0.99775544 1.98607758]

gradient= [-2.36884062e-03 -7.19988374e-06 2.37604050e-03] w = [0.01616698 0.99775544 1.98607758] w\_new= [0.01614329 0.99775537 1.98610134]

gradient= [-2.36530431e-03 -7.19029597e-06 2.37249461e-03] w = [0.01614329 0.99775537 1.98610134] w\_new= [0.01611964 0.9977553 1.98612507]

gradient= [-2.36177332e-03 -7.18072089e-06 2.36895404e-03] w = [0.01611964 0.9977553 1.98612507] w\_new= [0.01609602 0.99775522 1.98614876]

gradient= [-2.35824762e-03 -7.17115848e-06 2.36541878e-03] w = [0.01609602 0.99775522 1.98614876] w\_new= [0.01607244 0.99775515 1.98617241]

gradient= [-2.35472722e-03 -7.16160871e-06 2.36188883e-03] w = [0.01607244 0.99775515 1.98617241] w\_new= [0.01604889 0.99775508 1.98619603]

gradient= [-2.35121211e-03 -7.15207158e-06 2.35836418e-03] w = [0.01604889 0.99775508 1.98619603] w\_new= [0.01602538 0.99775501 1.98621961]

gradient= [-2.34770228e-03 -7.14254706e-06 2.35484482e-03] w = [0.01602538 0.99775501 1.98621961] w\_new= [0.0160019 0.99775494 1.98624316]

gradient= [-2.34419771e-03 -7.13303514e-06 2.35133075e-03] w = [0.0160019 0.99775494 1.98624316] w\_new= [0.01597846 0.99775487 1.98626668]

gradient= [-2.34069841e-03 -7.12353581e-06 2.34782195e-03] w = [0.01597846 0.99775487 1.98626668] w\_new= [0.01595505 0.9977548 1.98629015]

gradient= [-2.33720436e-03 -7.11404904e-06 2.34431841e-03] w = [0.01595505 0.9977548 1.98629015] w\_new= [0.01593168 0.99775472 1.9863136 ]

gradient= [-2.33371556e-03 -7.10457482e-06 2.34082014e-03] w = [0.01593168 0.99775472 1.9863136 ] w\_new= [0.01590834 0.99775465 1.98633701]

gradient= [-2.33023200e-03 -7.09511314e-06 2.33732712e-03] w = [0.01590834 0.99775465 1.98633701] w\_new= [0.01588504 0.99775458 1.98636038]

gradient= [-2.32675367e-03 -7.08566397e-06 2.33383934e-03] w = [0.01588504 0.99775458 1.98636038] w\_new= [0.01586177 0.99775451 1.98638372]

gradient= [-2.32328056e-03 -7.07622730e-06 2.33035679e-03] w = [0.01586177 0.99775451 1.98638372] w\_new= [0.01583854 0.99775444 1.98640702]

gradient= [-2.31981267e-03 -7.06680311e-06 2.32687947e-03] w = [0.01583854 0.99775444 1.98640702] w\_new= [0.01581534 0.99775437 1.98643029]

gradient= [-2.31634998e-03 -7.05739139e-06 2.32340738e-03] w = [0.01581534 0.99775437 1.98643029] w\_new= [0.01579218 0.9977543 1.98645352]

gradient= [-2.31289250e-03 -7.04799212e-06 2.31994049e-03] w = [0.01579218 0.9977543 1.98645352] w\_new= [0.01576905 0.99775423 1.98647672]

gradient= [-2.30944020e-03 -7.03860528e-06 2.31647881e-03] w = [0.01576905 0.99775423 1.98647672] w\_new= [0.01574595 0.99775416 1.98649989]

gradient= [-2.30599309e-03 -7.02923086e-06 2.31302232e-03] w = [0.01574595 0.99775416 1.98649989] w\_new= [0.01572289 0.99775409 1.98652302]

gradient= [-2.30255115e-03 -7.01986883e-06 2.30957102e-03] w = [0.01572289 0.99775409 1.98652302] w\_new= [0.01569987 0.99775402 1.98654611]

gradient= [-2.29911438e-03 -7.01051919e-06 2.30612490e-03] w = [0.01569987 0.99775402 1.98654611] w\_new= [0.01567688 0.99775395 1.98656918]

gradient= [-2.29568277e-03 -7.00118192e-06 2.30268395e-03] w = [0.01567688 0.99775395 1.98656918] w\_new= [0.01565392 0.99775388 1.9865922 ]

gradient= [-2.29225631e-03 -6.99185700e-06 2.29924817e-03] w = [0.01565392 0.99775388 1.9865922 ] w\_new= [0.015631 0.99775381 1.98661519]

gradient= [-2.28883500e-03 -6.98254441e-06 2.29581754e-03] w = [0.015631 0.99775381 1.98661519] w\_new= [0.01560811 0.99775374 1.98663815]

gradient= [-2.28541882e-03 -6.97324414e-06 2.29239206e-03] w = [0.01560811 0.99775374 1.98663815] w\_new= [0.01558525 0.99775367 1.98666108]

gradient= [-2.28200777e-03 -6.96395617e-06 2.28897172e-03] w = [0.01558525 0.99775367 1.98666108] w\_new= [0.01556243 0.9977536 1.98668397]

gradient= [-2.27860184e-03 -6.95468048e-06 2.28555652e-03] w = [0.01556243 0.9977536 1.98668397] w\_new= [0.01553965 0.99775353 1.98670682]

gradient= [-2.27520102e-03 -6.94541706e-06 2.28214644e-03] w = [0.01553965 0.99775353 1.98670682] w\_new= [0.0155169 0.99775346 1.98672964]

gradient= [-2.27180531e-03 -6.93616590e-06 2.27874148e-03] w = [0.0155169 0.99775346 1.98672964] w\_new= [0.01549418 0.99775339 1.98675243]

gradient= [-2.26841470e-03 -6.92692697e-06 2.27534162e-03] w = [0.01549418 0.99775339 1.98675243] w\_new= [0.01547149 0.99775332 1.98677518]

gradient= [-2.26502917e-03 -6.91770026e-06 2.27194687e-03] w = [0.01547149 0.99775332 1.98677518] w\_new= [0.01544884 0.99775325 1.9867979 ]

gradient= [-2.26164873e-03 -6.90848575e-06 2.26855721e-03] w = [0.01544884 0.99775325 1.9867979 ] w\_new= [0.01542623 0.99775318 1.98682059]

gradient= [-2.25827336e-03 -6.89928343e-06 2.26517264e-03] w = [0.01542623 0.99775318 1.98682059] w\_new= [0.01540364 0.99775311 1.98684324]

gradient= [-2.25490306e-03 -6.89009329e-06 2.26179315e-03] w = [0.01540364 0.99775311 1.98684324] w\_new= [0.0153811 0.99775305 1.98686586]

gradient= [-2.25153781e-03 -6.88091529e-06 2.25841873e-03] w = [0.0153811 0.99775305 1.98686586] w\_new= [0.01535858 0.99775298 1.98688844]

gradient= [-2.24817762e-03 -6.87174944e-06 2.25504937e-03] w = [0.01535858 0.99775298 1.98688844] w\_new= [0.0153361 0.99775291 1.98691099]

gradient= [-2.24482247e-03 -6.86259570e-06 2.25168507e-03] w = [0.0153361 0.99775291 1.98691099] w\_new= [0.01531365 0.99775284 1.98693351]

gradient= [-2.24147236e-03 -6.85345408e-06 2.24832581e-03] w = [0.01531365 0.99775284 1.98693351] w\_new= [0.01529124 0.99775277 1.98695599]

gradient= [-2.23812727e-03 -6.84432454e-06 2.24497160e-03] w = [0.01529124 0.99775277 1.98695599] w\_new= [0.01526885 0.9977527 1.98697844]

gradient= [-2.23478721e-03 -6.83520708e-06 2.24162241e-03] w = [0.01526885 0.9977527 1.98697844] w\_new= [0.01524651 0.99775263 1.98700086]

gradient= [-2.23145216e-03 -6.82610167e-06 2.23827826e-03] w = [0.01524651 0.99775263 1.98700086] w\_new= [0.01522419 0.99775257 1.98702324]

gradient= [-2.22812211e-03 -6.81700831e-06 2.23493912e-03] w = [0.01522419 0.99775257 1.98702324] w\_new= [0.01520191 0.9977525 1.98704559]

gradient= [-2.22479706e-03 -6.80792697e-06 2.23160499e-03] w = [0.01520191 0.9977525 1.98704559] w\_new= [0.01517966 0.99775243 1.98706791]

gradient= [-2.22147700e-03 -6.79885764e-06 2.22827586e-03] w = [0.01517966 0.99775243 1.98706791] w\_new= [0.01515745 0.99775236 1.98709019]

gradient= [-2.21816192e-03 -6.78980031e-06 2.22495172e-03] w = [0.01515745 0.99775236 1.98709019] w\_new= [0.01513527 0.99775229 1.98711244]

gradient= [-2.21485182e-03 -6.78075496e-06 2.22163258e-03] w = [0.01513527 0.99775229 1.98711244] w\_new= [0.01511312 0.99775223 1.98713466]

gradient= [-2.21154669e-03 -6.77172156e-06 2.21831841e-03] w = [0.01511312 0.99775223 1.98713466] w\_new= [0.015091 0.99775216 1.98715684]

gradient= [-2.20824651e-03 -6.76270012e-06 2.21500921e-03] w = [0.015091 0.99775216 1.98715684] w\_new= [0.01506892 0.99775209 1.98717899]

gradient= [-2.20495129e-03 -6.75369060e-06 2.21170498e-03] w = [0.01506892 0.99775209 1.98717899] w\_new= [0.01504687 0.99775202 1.98720111]

gradient= [-2.20166101e-03 -6.74469300e-06 2.20840571e-03] w = [0.01504687 0.99775202 1.98720111] w\_new= [0.01502485 0.99775196 1.98722319]

gradient= [-2.19837567e-03 -6.73570729e-06 2.20511138e-03] w = [0.01502485 0.99775196 1.98722319] w\_new= [0.01500287 0.99775189 1.98724524]

gradient= [-2.19509526e-03 -6.72673347e-06 2.20182200e-03] w = [0.01500287 0.99775189 1.98724524] w\_new= [0.01498092 0.99775182 1.98726726]

gradient= [-2.19181977e-03 -6.71777152e-06 2.19853755e-03] w = [0.01498092 0.99775182 1.98726726] w\_new= [0.014959 0.99775175 1.98728925]

gradient= [-2.18854920e-03 -6.70882142e-06 2.19525802e-03] w = [0.014959 0.99775175 1.98728925] w\_new= [0.01493712 0.99775169 1.9873112 ]

gradient= [-2.18528354e-03 -6.69988315e-06 2.19198342e-03] w = [0.01493712 0.99775169 1.9873112 ] w\_new= [0.01491526 0.99775162 1.98733312]

gradient= [-2.18202277e-03 -6.69095670e-06 2.18871373e-03] w = [0.01491526 0.99775162 1.98733312] w\_new= [0.01489344 0.99775155 1.98735501]

gradient= [-2.17876690e-03 -6.68204206e-06 2.18544894e-03] w = [0.01489344 0.99775155 1.98735501] w\_new= [0.01487165 0.99775149 1.98737686]

gradient= [-2.17551591e-03 -6.67313921e-06 2.18218905e-03] w = [0.01487165 0.99775149 1.98737686] w\_new= [0.0148499 0.99775142 1.98739868]

gradient= [-2.17226980e-03 -6.66424813e-06 2.17893405e-03] w = [0.0148499 0.99775142 1.98739868] w\_new= [0.01482818 0.99775135 1.98742047]

gradient= [-2.16902856e-03 -6.65536880e-06 2.17568393e-03] w = [0.01482818 0.99775135 1.98742047] w\_new= [0.01480649 0.99775129 1.98744223]

gradient= [-2.16579218e-03 -6.64650122e-06 2.17243868e-03] w = [0.01480649 0.99775129 1.98744223] w\_new= [0.01478483 0.99775122 1.98746395]

gradient= [-2.16256066e-03 -6.63764536e-06 2.16919831e-03] w = [0.01478483 0.99775122 1.98746395] w\_new= [0.0147632 0.99775115 1.98748564]

gradient= [-2.15933399e-03 -6.62880122e-06 2.16596279e-03] w = [0.0147632 0.99775115 1.98748564] w\_new= [0.01474161 0.99775109 1.9875073 ]

gradient= [-2.15611215e-03 -6.61996876e-06 2.16273212e-03] w = [0.01474161 0.99775109 1.9875073 ] w\_new= [0.01472005 0.99775102 1.98752893]

gradient= [-2.15289516e-03 -6.61114799e-06 2.15950630e-03] w = [0.01472005 0.99775102 1.98752893] w\_new= [0.01469852 0.99775095 1.98755053]

gradient= [-2.14968298e-03 -6.60233888e-06 2.15628532e-03] w = [0.01469852 0.99775095 1.98755053] w\_new= [0.01467702 0.99775089 1.98757209]

gradient= [-2.14647563e-03 -6.59354142e-06 2.15306917e-03] w = [0.01467702 0.99775089 1.98757209] w\_new= [0.01465556 0.99775082 1.98759362]

gradient= [-2.14327309e-03 -6.58475560e-06 2.14985784e-03] w = [0.01465556 0.99775082 1.98759362] w\_new= [0.01463413 0.99775076 1.98761512]

gradient= [-2.14007535e-03 -6.57598139e-06 2.14665133e-03] w = [0.01463413 0.99775076 1.98761512] w\_new= [0.01461272 0.99775069 1.98763658]

gradient= [-2.13688241e-03 -6.56721878e-06 2.14344963e-03] w = [0.01461272 0.99775069 1.98763658] w\_new= [0.01459136 0.99775062 1.98765802]

gradient= [-2.13369426e-03 -6.55846776e-06 2.14025272e-03] w = [0.01459136 0.99775062 1.98765802] w\_new= [0.01457002 0.99775056 1.98767942]

gradient= [-2.13051089e-03 -6.54972831e-06 2.13706062e-03] w = [0.01457002 0.99775056 1.98767942] w\_new= [0.01454871 0.99775049 1.98770079]

gradient= [-2.12733229e-03 -6.54100041e-06 2.13387329e-03] w = [0.01454871 0.99775049 1.98770079] w\_new= [0.01452744 0.99775043 1.98772213]

gradient= [-2.12415847e-03 -6.53228406e-06 2.13069075e-03] w = [0.01452744 0.99775043 1.98772213] w\_new= [0.0145062 0.99775036 1.98774344]

gradient= [-2.12098940e-03 -6.52357923e-06 2.12751298e-03] w = [0.0145062 0.99775036 1.98774344] w\_new= [0.01448499 0.9977503 1.98776471]

gradient= [-2.11782509e-03 -6.51488591e-06 2.12433998e-03] w = [0.01448499 0.9977503 1.98776471] w\_new= [0.01446381 0.99775023 1.98778596]

gradient= [-2.11466553e-03 -6.50620408e-06 2.12117173e-03] w = [0.01446381 0.99775023 1.98778596] w\_new= [0.01444266 0.99775017 1.98780717]

gradient= [-2.11151070e-03 -6.49753374e-06 2.11800823e-03] w = [0.01444266 0.99775017 1.98780717] w\_new= [0.01442155 0.9977501 1.98782835]

gradient= [-2.10836061e-03 -6.48887486e-06 2.11484948e-03] w = [0.01442155 0.9977501 1.98782835] w\_new= [0.01440047 0.99775004 1.9878495 ]

gradient= [-2.10521524e-03 -6.48022742e-06 2.11169546e-03] w = [0.01440047 0.99775004 1.9878495 ] w\_new= [0.01437941 0.99774997 1.98787061]

gradient= [-2.10207458e-03 -6.47159143e-06 2.10854618e-03] w = [0.01437941 0.99774997 1.98787061] w\_new= [0.01435839 0.99774991 1.9878917 ]

gradient= [-2.09893864e-03 -6.46296685e-06 2.10540161e-03] w = [0.01435839 0.99774991 1.9878917 ] w\_new= [0.0143374 0.99774984 1.98791275]

gradient= [-2.09580740e-03 -6.45435367e-06 2.10226176e-03] w = [0.0143374 0.99774984 1.98791275] w\_new= [0.01431645 0.99774978 1.98793378]

gradient= [-2.09268086e-03 -6.44575188e-06 2.09912661e-03] w = [0.01431645 0.99774978 1.98793378] w\_new= [0.01429552 0.99774971 1.98795477]

gradient= [-2.08955901e-03 -6.43716146e-06 2.09599617e-03] w = [0.01429552 0.99774971 1.98795477] w\_new= [0.01427462 0.99774965 1.98797573]

gradient= [-2.08644184e-03 -6.42858241e-06 2.09287042e-03] w = [0.01427462 0.99774965 1.98797573] w\_new= [0.01425376 0.99774959 1.98799666]

gradient= [-2.08332934e-03 -6.42001469e-06 2.08974936e-03] w = [0.01425376 0.99774959 1.98799666] w\_new= [0.01423292 0.99774952 1.98801755]

gradient= [-2.08022151e-03 -6.41145831e-06 2.08663297e-03] w = [0.01423292 0.99774952 1.98801755] w\_new= [0.01421212 0.99774946 1.98803842]

gradient= [-2.07711835e-03 -6.40291323e-06 2.08352126e-03] w = [0.01421212 0.99774946 1.98803842] w\_new= [0.01419135 0.99774939 1.98805925]

gradient= [-2.07401983e-03 -6.39437946e-06 2.08041421e-03] w = [0.01419135 0.99774939 1.98805925] w\_new= [0.01417061 0.99774933 1.98808006]

gradient= [-2.07092597e-03 -6.38585696e-06 2.07731182e-03] w = [0.01417061 0.99774933 1.98808006] w\_new= [0.0141499 0.99774927 1.98810083]

gradient= [-2.06783674e-03 -6.37734574e-06 2.07421408e-03] w = [0.0141499 0.99774927 1.98810083] w\_new= [0.01412922 0.9977492 1.98812157]

gradient= [-2.06475214e-03 -6.36884577e-06 2.07112099e-03] w = [0.01412922 0.9977492 1.98812157] w\_new= [0.01410858 0.99774914 1.98814229]

gradient= [-2.06167217e-03 -6.36035703e-06 2.06803253e-03] w = [0.01410858 0.99774914 1.98814229] w\_new= [0.01408796 0.99774907 1.98816297]

gradient= [-2.05859682e-03 -6.35187952e-06 2.06494870e-03] w = [0.01408796 0.99774907 1.98816297] w\_new= [0.01406737 0.99774901 1.98818362]

gradient= [-2.05552608e-03 -6.34341322e-06 2.06186950e-03] w = [0.01406737 0.99774901 1.98818362] w\_new= [0.01404682 0.99774895 1.98820423]

gradient= [-2.05245995e-03 -6.33495811e-06 2.05879491e-03] w = [0.01404682 0.99774895 1.98820423] w\_new= [0.01402629 0.99774888 1.98822482]

gradient= [-2.04939841e-03 -6.32651418e-06 2.05572492e-03] w = [0.01402629 0.99774888 1.98822482] w\_new= [0.0140058 0.99774882 1.98824538]

gradient= [-2.04634146e-03 -6.31808141e-06 2.05265954e-03] w = [0.0140058 0.99774882 1.98824538] w\_new= [0.01398534 0.99774876 1.98826591]

gradient= [-2.04328910e-03 -6.30965979e-06 2.04959876e-03] w = [0.01398534 0.99774876 1.98826591] w\_new= [0.0139649 0.99774869 1.9882864 ]

gradient= [-2.04024131e-03 -6.30124931e-06 2.04654256e-03] w = [0.0139649 0.99774869 1.9882864 ] w\_new= [0.0139445 0.99774863 1.98830687]

gradient= [-2.03719810e-03 -6.29284995e-06 2.04349095e-03] w = [0.0139445 0.99774863 1.98830687] w\_new= [0.01392413 0.99774857 1.9883273 ]

gradient= [-2.03415944e-03 -6.28446169e-06 2.04044390e-03] w = [0.01392413 0.99774857 1.9883273 ] w\_new= [0.01390379 0.99774851 1.98834771]

gradient= [-2.03112534e-03 -6.27608452e-06 2.03740143e-03] w = [0.01390379 0.99774851 1.98834771] w\_new= [0.01388348 0.99774844 1.98836808]

gradient= [-2.02809579e-03 -6.26771842e-06 2.03436351e-03] w = [0.01388348 0.99774844 1.98836808] w\_new= [0.0138632 0.99774838 1.98838842]

gradient= [-2.02507079e-03 -6.25936339e-06 2.03133015e-03] w = [0.0138632 0.99774838 1.98838842] w\_new= [0.01384294 0.99774832 1.98840874]

gradient= [-2.02205031e-03 -6.25101940e-06 2.02830133e-03] w = [0.01384294 0.99774832 1.98840874] w\_new= [0.01382272 0.99774826 1.98842902]

gradient= [-2.01903437e-03 -6.24268644e-06 2.02527706e-03] w = [0.01382272 0.99774826 1.98842902] w\_new= [0.01380253 0.99774819 1.98844927]

gradient= [-2.01602295e-03 -6.23436450e-06 2.02225731e-03] w = [0.01380253 0.99774819 1.98844927] w\_new= [0.01378237 0.99774813 1.9884695 ]

gradient= [-2.01301604e-03 -6.22605356e-06 2.01924210e-03] w = [0.01378237 0.99774813 1.9884695 ] w\_new= [0.01376224 0.99774807 1.98848969]

gradient= [-2.01001364e-03 -6.21775361e-06 2.01623140e-03] w = [0.01376224 0.99774807 1.98848969] w\_new= [0.01374214 0.99774801 1.98850985]

gradient= [-2.00701574e-03 -6.20946464e-06 2.01322521e-03] w = [0.01374214 0.99774801 1.98850985] w\_new= [0.01372207 0.99774794 1.98852998]

gradient= [-2.00402234e-03 -6.20118662e-06 2.01022353e-03] w = [0.01372207 0.99774794 1.98852998] w\_new= [0.01370203 0.99774788 1.98855009]

gradient= [-2.00103342e-03 -6.19291954e-06 2.00722634e-03] w = [0.01370203 0.99774788 1.98855009] w\_new= [0.01368202 0.99774782 1.98857016]

gradient= [-1.99804899e-03 -6.18466339e-06 2.00423365e-03] w = [0.01368202 0.99774782 1.98857016] w\_new= [0.01366204 0.99774776 1.9885902 ]

gradient= [-1.99506903e-03 -6.17641816e-06 2.00124544e-03] w = [0.01366204 0.99774776 1.9885902 ] w\_new= [0.01364209 0.9977477 1.98861021]

gradient= [-1.99209353e-03 -6.16818383e-06 1.99826171e-03] w = [0.01364209 0.9977477 1.98861021] w\_new= [0.01362217 0.99774764 1.98863019]

gradient= [-1.98912249e-03 -6.15996039e-06 1.99528246e-03] w = [0.01362217 0.99774764 1.98863019] w\_new= [0.01360228 0.99774757 1.98865015]

gradient= [-1.98615591e-03 -6.15174781e-06 1.99230766e-03] w = [0.01360228 0.99774757 1.98865015] w\_new= [0.01358242 0.99774751 1.98867007]

gradient= [-1.98319378e-03 -6.14354610e-06 1.98933732e-03] w = [0.01358242 0.99774751 1.98867007] w\_new= [0.01356259 0.99774745 1.98868996]

gradient= [-1.98023608e-03 -6.13535522e-06 1.98637144e-03] w = [0.01356259 0.99774745 1.98868996] w\_new= [0.01354278 0.99774739 1.98870983]

gradient= [-1.97728282e-03 -6.12717518e-06 1.98341000e-03] w = [0.01354278 0.99774739 1.98870983] w\_new= [0.01352301 0.99774733 1.98872966]

gradient= [-1.97433399e-03 -6.11900595e-06 1.98045299e-03] w = [0.01352301 0.99774733 1.98872966] w\_new= [0.01350327 0.99774727 1.98874947]

gradient= [-1.97138957e-03 -6.11084752e-06 1.97750042e-03] w = [0.01350327 0.99774727 1.98874947] w\_new= [0.01348355 0.99774721 1.98876924]

gradient= [-1.96844957e-03 -6.10269987e-06 1.97455227e-03] w = [0.01348355 0.99774721 1.98876924] w\_new= [0.01346387 0.99774714 1.98878899]

gradient= [-1.96551398e-03 -6.09456299e-06 1.97160854e-03] w = [0.01346387 0.99774714 1.98878899] w\_new= [0.01344421 0.99774708 1.9888087 ]

gradient= [-1.96258278e-03 -6.08643688e-06 1.96866922e-03] w = [0.01344421 0.99774708 1.9888087 ] w\_new= [0.01342459 0.99774702 1.98882839]

gradient= [-1.95965598e-03 -6.07832150e-06 1.96573430e-03] w = [0.01342459 0.99774702 1.98882839] w\_new= [0.01340499 0.99774696 1.98884805]

gradient= [-1.95673357e-03 -6.07021685e-06 1.96280378e-03] w = [0.01340499 0.99774696 1.98884805] w\_new= [0.01338542 0.9977469 1.98886768]

gradient= [-1.95381553e-03 -6.06212292e-06 1.95987765e-03] w = [0.01338542 0.9977469 1.98886768] w\_new= [0.01336589 0.99774684 1.98888727]

gradient= [-1.95090187e-03 -6.05403969e-06 1.95695591e-03] w = [0.01336589 0.99774684 1.98888727] w\_new= [0.01334638 0.99774678 1.98890684]

gradient= [-1.94799257e-03 -6.04596714e-06 1.95403854e-03] w = [0.01334638 0.99774678 1.98890684] w\_new= [0.0133269 0.99774672 1.98892638]

gradient= [-1.94508764e-03 -6.03790527e-06 1.95112554e-03] w = [0.0133269 0.99774672 1.98892638] w\_new= [0.01330745 0.99774666 1.9889459 ]

gradient= [-1.94218706e-03 -6.02985405e-06 1.94821691e-03] w = [0.01330745 0.99774666 1.9889459 ] w\_new= [0.01328802 0.9977466 1.98896538]

gradient= [-1.93929082e-03 -6.02181347e-06 1.94531263e-03] w = [0.01328802 0.9977466 1.98896538] w\_new= [0.01326863 0.99774654 1.98898483]

gradient= [-1.93639893e-03 -6.01378353e-06 1.94241271e-03] w = [0.01326863 0.99774654 1.98898483] w\_new= [0.01324927 0.99774648 1.98900425]

gradient= [-1.93351137e-03 -6.00576420e-06 1.93951713e-03] w = [0.01324927 0.99774648 1.98900425] w\_new= [0.01322993 0.99774642 1.98902365]

gradient= [-1.93062813e-03 -5.99775547e-06 1.93662589e-03] w = [0.01322993 0.99774642 1.98902365] w\_new= [0.01321063 0.99774636 1.98904302]

gradient= [-1.92774922e-03 -5.98975733e-06 1.93373898e-03] w = [0.01321063 0.99774636 1.98904302] w\_new= [0.01319135 0.9977463 1.98906235]

gradient= [-1.92487462e-03 -5.98176976e-06 1.93085639e-03] w = [0.01319135 0.9977463 1.98906235] w\_new= [0.0131721 0.99774624 1.98908166]

gradient= [-1.92200433e-03 -5.97379275e-06 1.92797812e-03] w = [0.0131721 0.99774624 1.98908166] w\_new= [0.01315288 0.99774618 1.98910094]

gradient= [-1.91913834e-03 -5.96582629e-06 1.92510417e-03] w = [0.01315288 0.99774618 1.98910094] w\_new= [0.01313369 0.99774612 1.98912019]

gradient= [-1.91627664e-03 -5.95787036e-06 1.92223452e-03] w = [0.01313369 0.99774612 1.98912019] w\_new= [0.01311453 0.99774606 1.98913942]

gradient= [-1.91341924e-03 -5.94992494e-06 1.91936916e-03] w = [0.01311453 0.99774606 1.98913942] w\_new= [0.01309539 0.997746 1.98915861]

gradient= [-1.91056611e-03 -5.94199003e-06 1.91650810e-03] w = [0.01309539 0.997746 1.98915861] w\_new= [0.01307629 0.99774594 1.98917777]

gradient= [-1.90771726e-03 -5.93406561e-06 1.91365133e-03] w = [0.01307629 0.99774594 1.98917777] w\_new= [0.01305721 0.99774588 1.98919691]

gradient= [-1.90487268e-03 -5.92615166e-06 1.91079883e-03] w = [0.01305721 0.99774588 1.98919691] w\_new= [0.01303816 0.99774582 1.98921602]

gradient= [-1.90203236e-03 -5.91824818e-06 1.90795061e-03] w = [0.01303816 0.99774582 1.98921602] w\_new= [0.01301914 0.99774576 1.9892351 ]

gradient= [-1.89919629e-03 -5.91035514e-06 1.90510665e-03] w = [0.01301914 0.99774576 1.9892351 ] w\_new= [0.01300015 0.9977457 1.98925415]

gradient= [-1.89636448e-03 -5.90247254e-06 1.90226695e-03] w = [0.01300015 0.9977457 1.98925415] w\_new= [0.01298118 0.99774564 1.98927317]

gradient= [-1.89353691e-03 -5.89460035e-06 1.89943151e-03] w = [0.01298118 0.99774564 1.98927317] w\_new= [0.01296225 0.99774559 1.98929217]

gradient= [-1.89071357e-03 -5.88673858e-06 1.89660031e-03] w = [0.01296225 0.99774559 1.98929217] w\_new= [0.01294334 0.99774553 1.98931113]

gradient= [-1.88789447e-03 -5.87888720e-06 1.89377335e-03] w = [0.01294334 0.99774553 1.98931113] w\_new= [0.01292446 0.99774547 1.98933007]

gradient= [-1.88507959e-03 -5.87104619e-06 1.89095063e-03] w = [0.01292446 0.99774547 1.98933007] w\_new= [0.01290561 0.99774541 1.98934898]

gradient= [-1.88226892e-03 -5.86321555e-06 1.88813214e-03] w = [0.01290561 0.99774541 1.98934898] w\_new= [0.01288679 0.99774535 1.98936786]

gradient= [-1.87946247e-03 -5.85539526e-06 1.88531786e-03] w = [0.01288679 0.99774535 1.98936786] w\_new= [0.01286799 0.99774529 1.98938671]

gradient= [-1.87666022e-03 -5.84758532e-06 1.88250780e-03] w = [0.01286799 0.99774529 1.98938671] w\_new= [0.01284923 0.99774523 1.98940554]

gradient= [-1.87386217e-03 -5.83978569e-06 1.87970195e-03] w = [0.01284923 0.99774523 1.98940554] w\_new= [0.01283049 0.99774518 1.98942434]

gradient= [-1.87106831e-03 -5.83199637e-06 1.87690030e-03] w = [0.01283049 0.99774518 1.98942434] w\_new= [0.01281178 0.99774512 1.9894431 ]

gradient= [-1.86827863e-03 -5.82421736e-06 1.87410285e-03] w = [0.01281178 0.99774512 1.9894431 ] w\_new= [0.0127931 0.99774506 1.98946185]

gradient= [-1.86549314e-03 -5.81644862e-06 1.87130959e-03] w = [0.0127931 0.99774506 1.98946185] w\_new= [0.01277444 0.997745 1.98948056]

gradient= [-1.86271182e-03 -5.80869016e-06 1.86852051e-03] w = [0.01277444 0.997745 1.98948056] w\_new= [0.01275581 0.99774494 1.98949924]

gradient= [-1.85993466e-03 -5.80094195e-06 1.86573560e-03] w = [0.01275581 0.99774494 1.98949924] w\_new= [0.01273721 0.99774488 1.9895179 ]

gradient= [-1.85716167e-03 -5.79320398e-06 1.86295487e-03] w = [0.01273721 0.99774488 1.9895179 ] w\_new= [0.01271864 0.99774483 1.98953653]

gradient= [-1.85439283e-03 -5.78547624e-06 1.86017830e-03] w = [0.01271864 0.99774483 1.98953653] w\_new= [0.0127001 0.99774477 1.98955513]

gradient= [-1.85162813e-03 -5.77775872e-06 1.85740589e-03] w = [0.0127001 0.99774477 1.98955513] w\_new= [0.01268158 0.99774471 1.98957371]

gradient= [-1.84886758e-03 -5.77005140e-06 1.85463763e-03] w = [0.01268158 0.99774471 1.98957371] w\_new= [0.01266309 0.99774465 1.98959225]

gradient= [-1.84611116e-03 -5.76235427e-06 1.85187352e-03] w = [0.01266309 0.99774465 1.98959225] w\_new= [0.01264463 0.9977446 1.98961077]

gradient= [-1.84335888e-03 -5.75466731e-06 1.84911354e-03] w = [0.01264463 0.9977446 1.98961077] w\_new= [0.0126262 0.99774454 1.98962926]

gradient= [-1.84061071e-03 -5.74699052e-06 1.84635770e-03] w = [0.0126262 0.99774454 1.98962926] w\_new= [0.01260779 0.99774448 1.98964773]

gradient= [-1.83786666e-03 -5.73932387e-06 1.84360599e-03] w = [0.01260779 0.99774448 1.98964773] w\_new= [0.01258941 0.99774442 1.98966616]

gradient= [-1.83512672e-03 -5.73166736e-06 1.84085839e-03] w = [0.01258941 0.99774442 1.98966616] w\_new= [0.01257106 0.99774437 1.98968457]

gradient= [-1.83239089e-03 -5.72402097e-06 1.83811491e-03] w = [0.01257106 0.99774437 1.98968457] w\_new= [0.01255274 0.99774431 1.98970295]

gradient= [-1.82965915e-03 -5.71638468e-06 1.83537554e-03] w = [0.01255274 0.99774431 1.98970295] w\_new= [0.01253444 0.99774425 1.98972131]

gradient= [-1.82693151e-03 -5.70875849e-06 1.83264026e-03] w = [0.01253444 0.99774425 1.98972131] w\_new= [0.01251617 0.99774419 1.98973963]

gradient= [-1.82420795e-03 -5.70114239e-06 1.82990909e-03] w = [0.01251617 0.99774419 1.98973963] w\_new= [0.01249793 0.99774414 1.98975793]

gradient= [-1.82148846e-03 -5.69353635e-06 1.82718200e-03] w = [0.01249793 0.99774414 1.98975793] w\_new= [0.01247972 0.99774408 1.9897762 ]

gradient= [-1.81877306e-03 -5.68594036e-06 1.82445900e-03] w = [0.01247972 0.99774408 1.9897762 ] w\_new= [0.01246153 0.99774402 1.98979445]

gradient= [-1.81606171e-03 -5.67835442e-06 1.82174007e-03] w = [0.01246153 0.99774402 1.98979445] w\_new= [0.01244337 0.99774397 1.98981267]

gradient= [-1.81335443e-03 -5.67077850e-06 1.81902521e-03] w = [0.01244337 0.99774397 1.98981267] w\_new= [0.01242523 0.99774391 1.98983086]

gradient= [-1.81065121e-03 -5.66321260e-06 1.81631442e-03] w = [0.01242523 0.99774391 1.98983086] w\_new= [0.01240713 0.99774385 1.98984902]

gradient= [-1.80795203e-03 -5.65565670e-06 1.81360769e-03] w = [0.01240713 0.99774385 1.98984902] w\_new= [0.01238905 0.9977438 1.98986715]

gradient= [-1.80525690e-03 -5.64811079e-06 1.81090501e-03] w = [0.01238905 0.9977438 1.98986715] w\_new= [0.012371 0.99774374 1.98988526]

gradient= [-1.80256580e-03 -5.64057485e-06 1.80820637e-03] w = [0.012371 0.99774374 1.98988526] w\_new= [0.01235297 0.99774368 1.98990335]

gradient= [-1.79987873e-03 -5.63304888e-06 1.80551178e-03] w = [0.01235297 0.99774368 1.98990335] w\_new= [0.01233497 0.99774363 1.9899214 ]

gradient= [-1.79719568e-03 -5.62553285e-06 1.80282122e-03] w = [0.01233497 0.99774363 1.9899214 ] w\_new= [0.012317 0.99774357 1.98993943]

gradient= [-1.79451666e-03 -5.61802676e-06 1.80013468e-03] w = [0.012317 0.99774357 1.98993943] w\_new= [0.01229905 0.99774352 1.98995743]

gradient= [-1.79184164e-03 -5.61053059e-06 1.79745217e-03] w = [0.01229905 0.99774352 1.98995743] w\_new= [0.01228114 0.99774346 1.98997541]

gradient= [-1.78917063e-03 -5.60304433e-06 1.79477368e-03] w = [0.01228114 0.99774346 1.98997541] w\_new= [0.01226324 0.9977434 1.98999335]

gradient= [-1.78650363e-03 -5.59556797e-06 1.79209919e-03] w = [0.01226324 0.9977434 1.98999335] w\_new= [0.01224538 0.99774335 1.99001127]

gradient= [-1.78384061e-03 -5.58810149e-06 1.78942871e-03] w = [0.01224538 0.99774335 1.99001127] w\_new= [0.01222754 0.99774329 1.99002917]

gradient= [-1.78118158e-03 -5.58064488e-06 1.78676223e-03] w = [0.01222754 0.99774329 1.99002917] w\_new= [0.01220973 0.99774324 1.99004704]

gradient= [-1.77852654e-03 -5.57319813e-06 1.78409973e-03] w = [0.01220973 0.99774324 1.99004704] w\_new= [0.01219194 0.99774318 1.99006488]

gradient= [-1.77587547e-03 -5.56576122e-06 1.78144123e-03] w = [0.01219194 0.99774318 1.99006488] w\_new= [0.01217418 0.99774312 1.99008269]

gradient= [-1.77322837e-03 -5.55833415e-06 1.77878670e-03] w = [0.01217418 0.99774312 1.99008269] w\_new= [0.01215645 0.99774307 1.99010048]

gradient= [-1.77058523e-03 -5.55091689e-06 1.77613615e-03] w = [0.01215645 0.99774307 1.99010048] w\_new= [0.01213875 0.99774301 1.99011824]

gradient= [-1.76794605e-03 -5.54350944e-06 1.77348956e-03] w = [0.01213875 0.99774301 1.99011824] w\_new= [0.01212107 0.99774296 1.99013598]

gradient= [-1.76531082e-03 -5.53611177e-06 1.77084693e-03] w = [0.01212107 0.99774296 1.99013598] w\_new= [0.01210341 0.9977429 1.99015368]

gradient= [-1.76267954e-03 -5.52872389e-06 1.76820826e-03] w = [0.01210341 0.9977429 1.99015368] w\_new= [0.01208579 0.99774285 1.99017137]

gradient= [-1.76005220e-03 -5.52134578e-06 1.76557354e-03] w = [0.01208579 0.99774285 1.99017137] w\_new= [0.01206819 0.99774279 1.99018902]

gradient= [-1.75742879e-03 -5.51397741e-06 1.76294277e-03] w = [0.01206819 0.99774279 1.99018902] w\_new= [0.01205061 0.99774274 1.99020665]

gradient= [-1.75480931e-03 -5.50661879e-06 1.76031593e-03] w = [0.01205061 0.99774274 1.99020665] w\_new= [0.01203306 0.99774268 1.99022425]

gradient= [-1.75219375e-03 -5.49926990e-06 1.75769302e-03] w = [0.01203306 0.99774268 1.99022425] w\_new= [0.01201554 0.99774263 1.99024183]

gradient= [-1.74958211e-03 -5.49193072e-06 1.75507404e-03] w = [0.01201554 0.99774263 1.99024183] w\_new= [0.01199805 0.99774257 1.99025938]

gradient= [-1.74697438e-03 -5.48460124e-06 1.75245898e-03] w = [0.01199805 0.99774257 1.99025938] w\_new= [0.01198058 0.99774252 1.99027691]

gradient= [-1.74437055e-03 -5.47728145e-06 1.74984783e-03] w = [0.01198058 0.99774252 1.99027691] w\_new= [0.01196313 0.99774246 1.99029441]

gradient= [-1.74177062e-03 -5.46997134e-06 1.74724059e-03] w = [0.01196313 0.99774246 1.99029441] w\_new= [0.01194572 0.99774241 1.99031188]

gradient= [-1.73917458e-03 -5.46267089e-06 1.74463725e-03] w = [0.01194572 0.99774241 1.99031188] w\_new= [0.01192832 0.99774235 1.99032932]

gradient= [-1.73658243e-03 -5.45538009e-06 1.74203781e-03] w = [0.01192832 0.99774235 1.99032932] w\_new= [0.01191096 0.9977423 1.99034674]

gradient= [-1.73399416e-03 -5.44809893e-06 1.73944226e-03] w = [0.01191096 0.9977423 1.99034674] w\_new= [0.01189362 0.99774224 1.99036414]

gradient= [-1.73140976e-03 -5.44082740e-06 1.73685059e-03] w = [0.01189362 0.99774224 1.99036414] w\_new= [0.0118763 0.99774219 1.99038151]

gradient= [-1.72882924e-03 -5.43356547e-06 1.73426280e-03] w = [0.0118763 0.99774219 1.99038151] w\_new= [0.01185902 0.99774214 1.99039885]

gradient= [-1.72625257e-03 -5.42631315e-06 1.73167889e-03] w = [0.01185902 0.99774214 1.99039885] w\_new= [0.01184175 0.99774208 1.99041617]

gradient= [-1.72367977e-03 -5.41907042e-06 1.72909884e-03] w = [0.01184175 0.99774208 1.99041617] w\_new= [0.01182452 0.99774203 1.99043346]

gradient= [-1.72111081e-03 -5.41183726e-06 1.72652265e-03] w = [0.01182452 0.99774203 1.99043346] w\_new= [0.0118073 0.99774197 1.99045072]

gradient= [-1.71854570e-03 -5.40461366e-06 1.72395032e-03] w = [0.0118073 0.99774197 1.99045072] w\_new= [0.01179012 0.99774192 1.99046796]

gradient= [-1.71598444e-03 -5.39739961e-06 1.72138184e-03] w = [0.01179012 0.99774192 1.99046796] w\_new= [0.01177296 0.99774186 1.99048518]

gradient= [-1.7134270e-03 -5.3901951e-06 1.7188172e-03] w = [0.01177296 0.99774186 1.99048518] w\_new= [0.01175583 0.99774181 1.99050236]

gradient= [-1.71087339e-03 -5.38300011e-06 1.71625639e-03] w = [0.01175583 0.99774181 1.99050236] w\_new= [0.01173872 0.99774176 1.99051953]

gradient= [-1.70832361e-03 -5.37581464e-06 1.71369942e-03] w = [0.01173872 0.99774176 1.99051953] w\_new= [0.01172163 0.9977417 1.99053666]

gradient= [-1.70577764e-03 -5.36863866e-06 1.71114628e-03] w = [0.01172163 0.9977417 1.99053666] w\_new= [0.01170458 0.99774165 1.99055378]

gradient= [-1.70323549e-03 -5.36147217e-06 1.70859696e-03] w = [0.01170458 0.99774165 1.99055378] w\_new= [0.01168754 0.9977416 1.99057086]

gradient= [-1.70069713e-03 -5.35431515e-06 1.70605145e-03] w = [0.01168754 0.9977416 1.99057086] w\_new= [0.01167054 0.99774154 1.99058792]

gradient= [-1.69816258e-03 -5.34716760e-06 1.70350975e-03] w = [0.01167054 0.99774154 1.99058792] w\_new= [0.01165355 0.99774149 1.99060496]

gradient= [-1.69563182e-03 -5.34002949e-06 1.70097185e-03] w = [0.01165355 0.99774149 1.99060496] w\_new= [0.0116366 0.99774144 1.99062197]

gradient= [-1.69310485e-03 -5.33290082e-06 1.69843775e-03] w = [0.0116366 0.99774144 1.99062197] w\_new= [0.01161967 0.99774138 1.99063895]

gradient= [-1.69058166e-03 -5.32578157e-06 1.69590745e-03] w = [0.01161967 0.99774138 1.99063895] w\_new= [0.01160276 0.99774133 1.99065591]

gradient= [-1.68806225e-03 -5.31867174e-06 1.69338092e-03] w = [0.01160276 0.99774133 1.99065591] w\_new= [0.01158588 0.99774128 1.99067284]

gradient= [-1.68554661e-03 -5.31157130e-06 1.69085818e-03] w = [0.01158588 0.99774128 1.99067284] w\_new= [0.01156903 0.99774122 1.99068975]

gradient= [-1.68303474e-03 -5.30448026e-06 1.68833922e-03] w = [0.01156903 0.99774122 1.99068975] w\_new= [0.01155219 0.99774117 1.99070664]

gradient= [-1.68052662e-03 -5.29739858e-06 1.68582402e-03] w = [0.01155219 0.99774117 1.99070664] w\_new= [0.01153539 0.99774112 1.99072349]

gradient= [-1.67802226e-03 -5.29032627e-06 1.68331258e-03] w = [0.01153539 0.99774112 1.99072349] w\_new= [0.01151861 0.99774106 1.99074033]

gradient= [-1.67552164e-03 -5.28326331e-06 1.68080491e-03] w = [0.01151861 0.99774106 1.99074033] w\_new= [0.01150185 0.99774101 1.99075714]

gradient= [-1.67302477e-03 -5.27620968e-06 1.67830098e-03] w = [0.01150185 0.99774101 1.99075714] w\_new= [0.01148512 0.99774096 1.99077392]

gradient= [-1.67053164e-03 -5.26916538e-06 1.67580080e-03] w = [0.01148512 0.99774096 1.99077392] w\_new= [0.01146842 0.99774091 1.99079068]

gradient= [-1.66804223e-03 -5.26213040e-06 1.67330436e-03] w = [0.01146842 0.99774091 1.99079068] w\_new= [0.01145174 0.99774085 1.99080741]

gradient= [-1.66555656e-03 -5.25510471e-06 1.67081166e-03] w = [0.01145174 0.99774085 1.99080741] w\_new= [0.01143508 0.9977408 1.99082412]

gradient= [-1.66307460e-03 -5.24808831e-06 1.66832269e-03] w = [0.01143508 0.9977408 1.99082412] w\_new= [0.01141845 0.99774075 1.9908408 ]

gradient= [-1.66059635e-03 -5.24108119e-06 1.66583743e-03] w = [0.01141845 0.99774075 1.9908408 ] w\_new= [0.01140185 0.9977407 1.99085746]

gradient= [-1.65812182e-03 -5.23408333e-06 1.66335590e-03] w = [0.01140185 0.9977407 1.99085746] w\_new= [0.01138526 0.99774064 1.99087409]

gradient= [-1.65565099e-03 -5.22709472e-06 1.66087808e-03] w = [0.01138526 0.99774064 1.99087409] w\_new= [0.01136871 0.99774059 1.9908907 ]

gradient= [-1.65318385e-03 -5.22011535e-06 1.65840397e-03] w = [0.01136871 0.99774059 1.9908907 ] w\_new= [0.01135218 0.99774054 1.99090729]

gradient= [-1.65072041e-03 -5.21314521e-06 1.65593355e-03] w = [0.01135218 0.99774054 1.99090729] w\_new= [0.01133567 0.99774049 1.99092384]

gradient= [-1.64826065e-03 -5.20618429e-06 1.65346684e-03] w = [0.01133567 0.99774049 1.99092384] w\_new= [0.01131919 0.99774043 1.99094038]

gradient= [-1.64580458e-03 -5.19923256e-06 1.65100381e-03] w = [0.01131919 0.99774043 1.99094038] w\_new= [0.01130273 0.99774038 1.99095689]

gradient= [-1.64335218e-03 -5.19229003e-06 1.64854447e-03] w = [0.01130273 0.99774038 1.99095689] w\_new= [0.01128629 0.99774033 1.99097337]

gradient= [-1.64090345e-03 -5.18535667e-06 1.64608880e-03] w = [0.01128629 0.99774033 1.99097337] w\_new= [0.01126989 0.99774028 1.99098984]

gradient= [-1.63845838e-03 -5.17843249e-06 1.64363681e-03] w = [0.01126989 0.99774028 1.99098984] w\_new= [0.0112535 0.99774023 1.99100627]

gradient= [-1.63601697e-03 -5.17151745e-06 1.64118849e-03] w = [0.0112535 0.99774023 1.99100627] w\_new= [0.01123714 0.99774017 1.99102268]

gradient= [-1.63357922e-03 -5.16461156e-06 1.63874383e-03] w = [0.01123714 0.99774017 1.99102268] w\_new= [0.01122081 0.99774012 1.99103907]

gradient= [-1.63114511e-03 -5.15771480e-06 1.63630283e-03] w = [0.01122081 0.99774012 1.99103907] w\_new= [0.01120449 0.99774007 1.99105543]

gradient= [-1.62871465e-03 -5.15082716e-06 1.63386547e-03] w = [0.01120449 0.99774007 1.99105543] w\_new= [0.01118821 0.99774002 1.99107177]

gradient= [-1.62628782e-03 -5.14394862e-06 1.63143177e-03] w = [0.01118821 0.99774002 1.99107177] w\_new= [0.01117194 0.99773997 1.99108809]

gradient= [-1.62386462e-03 -5.13707917e-06 1.62900170e-03] w = [0.01117194 0.99773997 1.99108809] w\_new= [0.01115571 0.99773992 1.99110438]

gradient= [-1.62144505e-03 -5.13021881e-06 1.62657527e-03] w = [0.01115571 0.99773992 1.99110438] w\_new= [0.01113949 0.99773987 1.99112064]

gradient= [-1.61902910e-03 -5.12336752e-06 1.62415247e-03] w = [0.01113949 0.99773987 1.99112064] w\_new= [0.0111233 0.99773981 1.99113688]

gradient= [-1.61661676e-03 -5.11652529e-06 1.62173329e-03] w = [0.0111233 0.99773981 1.99113688] w\_new= [0.01110713 0.99773976 1.9911531 ]

gradient= [-1.61420804e-03 -5.10969210e-06 1.61931773e-03] w = [0.01110713 0.99773976 1.9911531 ] w\_new= [0.01109099 0.99773971 1.9911693 ]

gradient= [-1.61180291e-03 -5.10286795e-06 1.61690578e-03] w = [0.01109099 0.99773971 1.9911693 ] w\_new= [0.01107487 0.99773966 1.99118546]

gradient= [-1.60940139e-03 -5.09605282e-06 1.61449744e-03] w = [0.01107487 0.99773966 1.99118546] w\_new= [0.01105878 0.99773961 1.99120161]

gradient= [-1.60700346e-03 -5.08924670e-06 1.61209270e-03] w = [0.01105878 0.99773961 1.99120161] w\_new= [0.01104271 0.99773956 1.99121773]

gradient= [-1.60460911e-03 -5.08244958e-06 1.60969156e-03] w = [0.01104271 0.99773956 1.99121773] w\_new= [0.01102666 0.99773951 1.99123383]

gradient= [-1.60221835e-03 -5.07566144e-06 1.60729401e-03] w = [0.01102666 0.99773951 1.99123383] w\_new= [0.01101064 0.99773946 1.9912499 ]

gradient= [-1.59983117e-03 -5.06888228e-06 1.60490005e-03] w = [0.01101064 0.99773946 1.9912499 ] w\_new= [0.01099464 0.99773941 1.99126595]

gradient= [-1.59744755e-03 -5.06211208e-06 1.60250966e-03] w = [0.01099464 0.99773941 1.99126595] w\_new= [0.01097867 0.99773936 1.99128197]

gradient= [-1.59506750e-03 -5.05535084e-06 1.60012286e-03] w = [0.01097867 0.99773936 1.99128197] w\_new= [0.01096272 0.99773931 1.99129798]

gradient= [-1.59269102e-03 -5.04859853e-06 1.59773962e-03] w = [0.01096272 0.99773931 1.99129798] w\_new= [0.01094679 0.99773926 1.99131395]

gradient= [-1.59031808e-03 -5.04185515e-06 1.59535994e-03] w = [0.01094679 0.99773926 1.99131395] w\_new= [0.01093089 0.99773921 1.99132991]

gradient= [-1.58794870e-03 -5.03512069e-06 1.59298382e-03] w = [0.01093089 0.99773921 1.99132991] w\_new= [0.01091501 0.99773915 1.99134584]

gradient= [-1.58558286e-03 -5.02839513e-06 1.59061126e-03] w = [0.01091501 0.99773915 1.99134584] w\_new= [0.01089915 0.9977391 1.99136174]

gradient= [-1.58322057e-03 -5.02167846e-06 1.58824224e-03] w = [0.01089915 0.9977391 1.99136174] w\_new= [0.01088332 0.99773905 1.99137762]

gradient= [-1.58086180e-03 -5.01497068e-06 1.58587677e-03] w = [0.01088332 0.99773905 1.99137762] w\_new= [0.01086751 0.997739 1.99139348]

gradient= [-1.57850656e-03 -5.00827176e-06 1.58351484e-03] w = [0.01086751 0.997739 1.99139348] w\_new= [0.01085173 0.99773895 1.99140932]

gradient= [-1.57615485e-03 -5.00158170e-06 1.58115643e-03] w = [0.01085173 0.99773895 1.99140932] w\_new= [0.01083597 0.9977389 1.99142513]

gradient= [-1.57380666e-03 -4.99490049e-06 1.57880156e-03] w = [0.01083597 0.9977389 1.99142513] w\_new= [0.01082023 0.99773885 1.99144092]

gradient= [-1.57146197e-03 -4.98822811e-06 1.57645020e-03] w = [0.01082023 0.99773885 1.99144092] w\_new= [0.01080451 0.9977388 1.99145668]

gradient= [-1.56912080e-03 -4.98156455e-06 1.57410236e-03] w = [0.01080451 0.9977388 1.99145668] w\_new= [0.01078882 0.99773875 1.99147242]

gradient= [-1.56678312e-03 -4.97490980e-06 1.57175803e-03] w = [0.01078882 0.99773875 1.99147242] w\_new= [0.01077315 0.9977387 1.99148814]

gradient= [-1.56444895e-03 -4.96826385e-06 1.56941721e-03] w = [0.01077315 0.9977387 1.99148814] w\_new= [0.01075751 0.99773866 1.99150384]

gradient= [-1.56211826e-03 -4.96162669e-06 1.56707989e-03] w = [0.01075751 0.99773866 1.99150384] w\_new= [0.01074189 0.99773861 1.99151951]

gradient= [-1.55979106e-03 -4.95499831e-06 1.56474606e-03] w = [0.01074189 0.99773861 1.99151951] w\_new= [0.01072629 0.99773856 1.99153515]

gradient= [-1.55746734e-03 -4.94837869e-06 1.56241572e-03] w = [0.01072629 0.99773856 1.99153515] w\_new= [0.01071072 0.99773851 1.99155078]

gradient= [-1.55514710e-03 -4.94176782e-06 1.56008887e-03] w = [0.01071072 0.99773851 1.99155078] w\_new= [0.01069516 0.99773846 1.99156638]

gradient= [-1.55283033e-03 -4.93516569e-06 1.55776550e-03] w = [0.01069516 0.99773846 1.99156638] w\_new= [0.01067964 0.99773841 1.99158196]

gradient= [-1.55051702e-03 -4.92857229e-06 1.55544559e-03] w = [0.01067964 0.99773841 1.99158196] w\_new= [0.01066413 0.99773836 1.99159751]

gradient= [-1.54820718e-03 -4.92198761e-06 1.55312916e-03] w = [0.01066413 0.99773836 1.99159751] w\_new= [0.01064865 0.99773831 1.99161304]

gradient= [-1.54590078e-03 -4.91541164e-06 1.55081619e-03] w = [0.01064865 0.99773831 1.99161304] w\_new= [0.01063319 0.99773826 1.99162855]

gradient= [-1.54359784e-03 -4.90884436e-06 1.54850668e-03] w = [0.01063319 0.99773826 1.99162855] w\_new= [0.01061775 0.99773821 1.99164404]

gradient= [-1.54129834e-03 -4.90228577e-06 1.54620063e-03] w = [0.01061775 0.99773821 1.99164404] w\_new= [0.01060234 0.99773816 1.9916595 ]

gradient= [-1.53900228e-03 -4.89573585e-06 1.54389802e-03] w = [0.01060234 0.99773816 1.9916595 ] w\_new= [0.01058695 0.99773811 1.99167494]

gradient= [-1.53670966e-03 -4.88919459e-06 1.54159885e-03] w = [0.01058695 0.99773811 1.99167494] w\_new= [0.01057158 0.99773806 1.99169035]

gradient= [-1.53442046e-03 -4.88266198e-06 1.53930312e-03] w = [0.01057158 0.99773806 1.99169035] w\_new= [0.01055624 0.99773802 1.99170575]

gradient= [-1.53213469e-03 -4.87613801e-06 1.53701083e-03] w = [0.01055624 0.99773802 1.99170575] w\_new= [0.01054092 0.99773797 1.99172112]

gradient= [-1.52985233e-03 -4.86962266e-06 1.53472196e-03] w = [0.01054092 0.99773797 1.99172112] w\_new= [0.01052562 0.99773792 1.99173646]

gradient= [-1.52757339e-03 -4.86311593e-06 1.53243651e-03] w = [0.01052562 0.99773792 1.99173646] w\_new= [0.01051034 0.99773787 1.99175179]

gradient= [-1.52529786e-03 -4.85661780e-06 1.53015448e-03] w = [0.01051034 0.99773787 1.99175179] w\_new= [0.01049509 0.99773782 1.99176709]

gradient= [-1.52302573e-03 -4.85012827e-06 1.52787586e-03] w = [0.01049509 0.99773782 1.99176709] w\_new= [0.01047986 0.99773777 1.99178237]

gradient= [-1.52075700e-03 -4.84364731e-06 1.52560064e-03] w = [0.01047986 0.99773777 1.99178237] w\_new= [0.01046465 0.99773772 1.99179762]

gradient= [-1.51849166e-03 -4.83717493e-06 1.52332883e-03] w = [0.01046465 0.99773772 1.99179762] w\_new= [0.01044947 0.99773768 1.99181286]

gradient= [-1.51622971e-03 -4.83071111e-06 1.52106042e-03] w = [0.01044947 0.99773768 1.99181286] w\_new= [0.01043431 0.99773763 1.99182807]

gradient= [-1.51397114e-03 -4.82425583e-06 1.51879539e-03] w = [0.01043431 0.99773763 1.99182807] w\_new= [0.01041917 0.99773758 1.99184326]

gradient= [-1.51171594e-03 -4.81780909e-06 1.51653375e-03] w = [0.01041917 0.99773758 1.99184326] w\_new= [0.01040405 0.99773753 1.99185842]

gradient= [-1.50946413e-03 -4.81137087e-06 1.51427550e-03] w = [0.01040405 0.99773753 1.99185842] w\_new= [0.01038895 0.99773748 1.99187356]

gradient= [-1.50721567e-03 -4.80494117e-06 1.51202061e-03] w = [0.01038895 0.99773748 1.99187356] w\_new= [0.01037388 0.99773743 1.99188868]

gradient= [-1.50497058e-03 -4.79851997e-06 1.50976910e-03] w = [0.01037388 0.99773743 1.99188868] w\_new= [0.01035883 0.99773739 1.99190378]

gradient= [-1.50272885e-03 -4.79210727e-06 1.50752096e-03] w = [0.01035883 0.99773739 1.99190378] w\_new= [0.0103438 0.99773734 1.99191886]

gradient= [-1.50049047e-03 -4.78570304e-06 1.50527617e-03] w = [0.0103438 0.99773734 1.99191886] w\_new= [0.0103288 0.99773729 1.99193391]

gradient= [-1.49825544e-03 -4.77930728e-06 1.50303474e-03] w = [0.0103288 0.99773729 1.99193391] w\_new= [0.01031382 0.99773724 1.99194894]

gradient= [-1.49602375e-03 -4.77291998e-06 1.50079667e-03] w = [0.01031382 0.99773724 1.99194894] w\_new= [0.01029886 0.9977372 1.99196395]

gradient= [-1.49379539e-03 -4.76654112e-06 1.49856193e-03] w = [0.01029886 0.9977372 1.99196395] w\_new= [0.01028392 0.99773715 1.99197893]

gradient= [-1.49157037e-03 -4.76017070e-06 1.49633054e-03] w = [0.01028392 0.99773715 1.99197893] w\_new= [0.010269 0.9977371 1.9919939]

gradient= [-1.48934867e-03 -4.75380871e-06 1.49410248e-03] w = [0.010269 0.9977371 1.9919939] w\_new= [0.01025411 0.99773705 1.99200884]

gradient= [-1.48713030e-03 -4.74745513e-06 1.49187775e-03] w = [0.01025411 0.99773705 1.99200884] w\_new= [0.01023924 0.997737 1.99202376]

gradient= [-1.48491524e-03 -4.74110995e-06 1.48965635e-03] w = [0.01023924 0.997737 1.99202376] w\_new= [0.01022439 0.99773696 1.99203865]

gradient= [-1.48270350e-03 -4.73477316e-06 1.48743827e-03] w = [0.01022439 0.99773696 1.99203865] w\_new= [0.01020956 0.99773691 1.99205353]

gradient= [-1.48049506e-03 -4.72844475e-06 1.48522350e-03] w = [0.01020956 0.99773691 1.99205353] w\_new= [0.01019476 0.99773686 1.99206838]

gradient= [-1.47828992e-03 -4.72212471e-06 1.48301205e-03] w = [0.01019476 0.99773686 1.99206838] w\_new= [0.01017997 0.99773682 1.99208321]

gradient= [-1.47608808e-03 -4.71581303e-06 1.48080390e-03] w = [0.01017997 0.99773682 1.99208321] w\_new= [0.01016521 0.99773677 1.99209802]

gradient= [-1.47388954e-03 -4.70950970e-06 1.47859905e-03] w = [0.01016521 0.99773677 1.99209802] w\_new= [0.01015047 0.99773672 1.9921128 ]

gradient= [-1.47169428e-03 -4.70321470e-06 1.47639749e-03] w = [0.01015047 0.99773672 1.9921128 ] w\_new= [0.01013576 0.99773667 1.99212757]

gradient= [-1.46950230e-03 -4.69692803e-06 1.47419923e-03] w = [0.01013576 0.99773667 1.99212757] w\_new= [0.01012106 0.99773663 1.99214231]

gradient= [-1.46731360e-03 -4.69064967e-06 1.47200425e-03] w = [0.01012106 0.99773663 1.99214231] w\_new= [0.01010639 0.99773658 1.99215703]

gradient= [-1.46512817e-03 -4.68437962e-06 1.46981255e-03] w = [0.01010639 0.99773658 1.99215703] w\_new= [0.01009174 0.99773653 1.99217173]

gradient= [-1.46294601e-03 -4.67811785e-06 1.46762413e-03] w = [0.01009174 0.99773653 1.99217173] w\_new= [0.01007711 0.99773649 1.9921864 ]

gradient= [-1.46076711e-03 -4.67186437e-06 1.46543897e-03] w = [0.01007711 0.99773649 1.9921864 ] w\_new= [0.0100625 0.99773644 1.99220106]

gradient= [-1.45859147e-03 -4.66561916e-06 1.46325709e-03] w = [0.0100625 0.99773644 1.99220106] w\_new= [0.01004792 0.99773639 1.99221569]

gradient= [-1.45641908e-03 -4.65938221e-06 1.46107846e-03] w = [0.01004792 0.99773639 1.99221569] w\_new= [0.01003335 0.99773635 1.9922303 ]

gradient= [-1.45424994e-03 -4.65315351e-06 1.45890309e-03] w = [0.01003335 0.99773635 1.9922303 ] w\_new= [0.01001881 0.9977363 1.99224489]

gradient= [-1.45208404e-03 -4.64693304e-06 1.45673097e-03] w = [0.01001881 0.9977363 1.99224489] w\_new= [0.01000429 0.99773625 1.99225946]

gradient= [-1.44992138e-03 -4.64072080e-06 1.45456210e-03] w = [0.01000429 0.99773625 1.99225946] w\_new= [0.00998979 0.99773621 1.992274 ]

gradient= [-1.44776195e-03 -4.63451678e-06 1.45239647e-03] w = [0.00998979 0.99773621 1.992274 ] w\_new= [0.00997531 0.99773616 1.99228853]

gradient= [-1.44560575e-03 -4.62832097e-06 1.45023407e-03] w = [0.00997531 0.99773616 1.99228853] w\_new= [0.00996086 0.99773611 1.99230303]

gradient= [-1.44345277e-03 -4.62213334e-06 1.44807491e-03] w = [0.00996086 0.99773611 1.99230303] w\_new= [0.00994642 0.99773607 1.99231751]

gradient= [-1.44130302e-03 -4.61595391e-06 1.44591897e-03] w = [0.00994642 0.99773607 1.99231751] w\_new= [0.00993201 0.99773602 1.99233197]

gradient= [-1.43915647e-03 -4.60978264e-06 1.44376626e-03] w = [0.00993201 0.99773602 1.99233197] w\_new= [0.00991762 0.99773598 1.99234641]

gradient= [-1.43701314e-03 -4.60361954e-06 1.44161676e-03] w = [0.00991762 0.99773598 1.99234641] w\_new= [0.00990325 0.99773593 1.99236082]

gradient= [-1.43487301e-03 -4.59746459e-06 1.43947047e-03] w = [0.00990325 0.99773593 1.99236082] w\_new= [0.0098889 0.99773588 1.99237522]

gradient= [-1.43273607e-03 -4.59131778e-06 1.43732739e-03] w = [0.0098889 0.99773588 1.99237522] w\_new= [0.00987457 0.99773584 1.99238959]

gradient= [-1.43060233e-03 -4.58517909e-06 1.43518751e-03] w = [0.00987457 0.99773584 1.99238959] w\_new= [0.00986026 0.99773579 1.99240394]

gradient= [-1.42847179e-03 -4.57904853e-06 1.43305083e-03] w = [0.00986026 0.99773579 1.99240394] w\_new= [0.00984598 0.99773575 1.99241827]

gradient= [-1.42634442e-03 -4.57292608e-06 1.43091735e-03] w = [0.00984598 0.99773575 1.99241827] w\_new= [0.00983172 0.9977357 1.99243258]

gradient= [-1.42422024e-03 -4.56681173e-06 1.42878705e-03] w = [0.00983172 0.9977357 1.99243258] w\_new= [0.00981747 0.99773566 1.99244687]

gradient= [-1.42209923e-03 -4.56070546e-06 1.42665993e-03] w = [0.00981747 0.99773566 1.99244687] w\_new= [0.00980325 0.99773561 1.99246114]

gradient= [-1.41998139e-03 -4.55460727e-06 1.42453599e-03] w = [0.00980325 0.99773561 1.99246114] w\_new= [0.00978905 0.99773556 1.99247538]

gradient= [-1.41786671e-03 -4.54851714e-06 1.42241523e-03] w = [0.00978905 0.99773556 1.99247538] w\_new= [0.00977487 0.99773552 1.99248961]

gradient= [-1.41575520e-03 -4.54243507e-06 1.42029764e-03] w = [0.00977487 0.99773552 1.99248961] w\_new= [0.00976072 0.99773547 1.99250381]

gradient= [-1.41364684e-03 -4.53636105e-06 1.41818321e-03] w = [0.00976072 0.99773547 1.99250381] w\_new= [0.00974658 0.99773543 1.99251799]

gradient= [-1.41154164e-03 -4.53029506e-06 1.41607193e-03] w = [0.00974658 0.99773543 1.99251799] w\_new= [0.00973246 0.99773538 1.99253215]

gradient= [-1.40943958e-03 -4.52423709e-06 1.41396382e-03] w = [0.00973246 0.99773538 1.99253215] w\_new= [0.00971837 0.99773534 1.99254629]

gradient= [-1.40734066e-03 -4.51818714e-06 1.41185885e-03] w = [0.00971837 0.99773534 1.99254629] w\_new= [0.0097043 0.99773529 1.99256041]

gradient= [-1.40524488e-03 -4.51214518e-06 1.40975703e-03] w = [0.0097043 0.99773529 1.99256041] w\_new= [0.00969024 0.99773525 1.99257451]

gradient= [-1.40315223e-03 -4.50611122e-06 1.40765834e-03] w = [0.00969024 0.99773525 1.99257451] w\_new= [0.00967621 0.9977352 1.99258859]

gradient= [-1.40106271e-03 -4.50008525e-06 1.40556280e-03] w = [0.00967621 0.9977352 1.99258859] w\_new= [0.0096622 0.99773516 1.99260264]

gradient= [-1.39897632e-03 -4.49406724e-06 1.40347038e-03] w = [0.0096622 0.99773516 1.99260264] w\_new= [0.00964821 0.99773511 1.99261668]

gradient= [-1.39689304e-03 -4.48805719e-06 1.40138109e-03] w = [0.00964821 0.99773511 1.99261668] w\_new= [0.00963424 0.99773507 1.99263069]

gradient= [-1.39481287e-03 -4.48205510e-06 1.39929492e-03] w = [0.00963424 0.99773507 1.99263069] w\_new= [0.0096203 0.99773502 1.99264468]

gradient= [-1.39273581e-03 -4.47606094e-06 1.39721187e-03] w = [0.0096203 0.99773502 1.99264468] w\_new= [0.00960637 0.99773498 1.99265865]

gradient= [-1.39066186e-03 -4.47007471e-06 1.39513193e-03] w = [0.00960637 0.99773498 1.99265865] w\_new= [0.00959246 0.99773493 1.99267261]

gradient= [-1.38859101e-03 -4.46409640e-06 1.39305510e-03] w = [0.00959246 0.99773493 1.99267261] w\_new= [0.00957858 0.99773489 1.99268654]

gradient= [-1.38652325e-03 -4.45812600e-06 1.39098137e-03] w = [0.00957858 0.99773489 1.99268654] w\_new= [0.00956471 0.99773484 1.99270045]

gradient= [-1.38445858e-03 -4.45216350e-06 1.38891074e-03] w = [0.00956471 0.99773484 1.99270045] w\_new= [0.00955087 0.9977348 1.99271434]

gradient= [-1.38239699e-03 -4.44620888e-06 1.38684320e-03] w = [0.00955087 0.9977348 1.99271434] w\_new= [0.00953704 0.99773475 1.9927282 ]

gradient= [-1.38033849e-03 -4.44026215e-06 1.38477875e-03] w = [0.00953704 0.99773475 1.9927282 ] w\_new= [0.00952324 0.99773471 1.99274205]

gradient= [-1.37828307e-03 -4.43432327e-06 1.38271739e-03] w = [0.00952324 0.99773471 1.99274205] w\_new= [0.00950946 0.99773467 1.99275588]

gradient= [-1.37623071e-03 -4.42839226e-06 1.38065910e-03] w = [0.00950946 0.99773467 1.99275588] w\_new= [0.00949569 0.99773462 1.99276969]

gradient= [-1.37418142e-03 -4.42246909e-06 1.37860389e-03] w = [0.00949569 0.99773462 1.99276969] w\_new= [0.00948195 0.99773458 1.99278347]

gradient= [-1.37213520e-03 -4.41655376e-06 1.37655175e-03] w = [0.00948195 0.99773458 1.99278347] w\_new= [0.00946823 0.99773453 1.99279724]

gradient= [-1.37009203e-03 -4.41064625e-06 1.37450268e-03] w = [0.00946823 0.99773453 1.99279724] w\_new= [0.00945453 0.99773449 1.99281098]

gradient= [-1.36805192e-03 -4.40474656e-06 1.37245666e-03] w = [0.00945453 0.99773449 1.99281098] w\_new= [0.00944085 0.99773445 1.99282471]

gradient= [-1.36601485e-03 -4.39885467e-06 1.37041370e-03] w = [0.00944085 0.99773445 1.99282471] w\_new= [0.00942719 0.9977344 1.99283841]

gradient= [-1.36398083e-03 -4.39297057e-06 1.36837380e-03] w = [0.00942719 0.9977344 1.99283841] w\_new= [0.00941355 0.99773436 1.99285209]

gradient= [-1.36194985e-03 -4.38709426e-06 1.36633694e-03] w = [0.00941355 0.99773436 1.99285209] w\_new= [0.00939993 0.99773431 1.99286576]

gradient= [-1.35992190e-03 -4.38122573e-06 1.36430312e-03] w = [0.00939993 0.99773431 1.99286576] w\_new= [0.00938633 0.99773427 1.9928794 ]

gradient= [-1.35789698e-03 -4.37536496e-06 1.36227234e-03] w = [0.00938633 0.99773427 1.9928794 ] w\_new= [0.00937275 0.99773423 1.99289302]

gradient= [-1.35587509e-03 -4.36951194e-06 1.36024460e-03] w = [0.00937275 0.99773423 1.99289302] w\_new= [0.00935919 0.99773418 1.99290663]

gradient= [-1.35385622e-03 -4.36366667e-06 1.35821988e-03] w = [0.00935919 0.99773418 1.99290663] w\_new= [0.00934565 0.99773414 1.99292021]

gradient= [-1.35184036e-03 -4.35782912e-06 1.35619819e-03] w = [0.00934565 0.99773414 1.99292021] w\_new= [0.00933214 0.99773409 1.99293377]

gradient= [-1.34982752e-03 -4.35199931e-06 1.35417952e-03] w = [0.00933214 0.99773409 1.99293377] w\_new= [0.00931864 0.99773405 1.99294731]

gradient= [-1.34781769e-03 -4.34617720e-06 1.35216386e-03] w = [0.00931864 0.99773405 1.99294731] w\_new= [0.00930516 0.99773401 1.99296083]

gradient= [-1.34581085e-03 -4.34036280e-06 1.35015122e-03] w = [0.00930516 0.99773401 1.99296083] w\_new= [0.0092917 0.99773396 1.99297433]

gradient= [-1.34380702e-03 -4.33455609e-06 1.34814158e-03] w = [0.0092917 0.99773396 1.99297433] w\_new= [0.00927826 0.99773392 1.99298782]

gradient= [-1.34180618e-03 -4.32875706e-06 1.34613494e-03] w = [0.00927826 0.99773392 1.99298782] w\_new= [0.00926484 0.99773388 1.99300128]

gradient= [-1.33980833e-03 -4.32296571e-06 1.34413130e-03] w = [0.00926484 0.99773388 1.99300128] w\_new= [0.00925145 0.99773383 1.99301472]

gradient= [-1.33781347e-03 -4.31718201e-06 1.34213065e-03] w = [0.00925145 0.99773383 1.99301472] w\_new= [0.00923807 0.99773379 1.99302814]

gradient= [-1.33582158e-03 -4.31140597e-06 1.34013299e-03] w = [0.00923807 0.99773379 1.99302814] w\_new= [0.00922471 0.99773375 1.99304154]

gradient= [-1.33383267e-03 -4.30563758e-06 1.33813831e-03] w = [0.00922471 0.99773375 1.99304154] w\_new= [0.00921137 0.99773371 1.99305492]

gradient= [-1.33184674e-03 -4.29987681e-06 1.33614661e-03] w = [0.00921137 0.99773371 1.99305492] w\_new= [0.00919805 0.99773366 1.99306828]

gradient= [-1.32986376e-03 -4.29412367e-06 1.33415789e-03] w = [0.00919805 0.99773366 1.99306828] w\_new= [0.00918475 0.99773362 1.99308163]

gradient= [-1.32788376e-03 -4.28837813e-06 1.33217214e-03] w = [0.00918475 0.99773362 1.99308163] w\_new= [0.00917148 0.99773358 1.99309495]

gradient= [-1.32590671e-03 -4.28264020e-06 1.33018935e-03] w = [0.00917148 0.99773358 1.99309495] w\_new= [0.00915822 0.99773353 1.99310825]

gradient= [-1.32393261e-03 -4.27690987e-06 1.32820952e-03] w = [0.00915822 0.99773353 1.99310825] w\_new= [0.00914498 0.99773349 1.99312153]

gradient= [-1.32196147e-03 -4.27118711e-06 1.32623265e-03] w = [0.00914498 0.99773349 1.99312153] w\_new= [0.00913176 0.99773345 1.99313479]

gradient= [-1.31999326e-03 -4.26547193e-06 1.32425874e-03] w = [0.00913176 0.99773345 1.99313479] w\_new= [0.00911856 0.99773341 1.99314804]

gradient= [-1.31802800e-03 -4.25976431e-06 1.32228777e-03] w = [0.00911856 0.99773341 1.99314804] w\_new= [0.00910538 0.99773336 1.99316126]

gradient= [-1.31606568e-03 -4.25406424e-06 1.32031974e-03] w = [0.00910538 0.99773336 1.99316126] w\_new= [0.00909222 0.99773332 1.99317446]

gradient= [-1.31410628e-03 -4.24837171e-06 1.31835465e-03] w = [0.00909222 0.99773332 1.99317446] w\_new= [0.00907908 0.99773328 1.99318765]

gradient= [-1.31214982e-03 -4.24268672e-06 1.31639250e-03] w = [0.00907908 0.99773328 1.99318765] w\_new= [0.00906595 0.99773324 1.99320081]

gradient= [-1.31019627e-03 -4.23700924e-06 1.31443328e-03] w = [0.00906595 0.99773324 1.99320081] w\_new= [0.00905285 0.99773319 1.99321395]

gradient= [-1.30824565e-03 -4.23133928e-06 1.31247698e-03] w = [0.00905285 0.99773319 1.99321395] w\_new= [0.00903977 0.99773315 1.99322708]

gradient= [-1.30629793e-03 -4.22567683e-06 1.31052361e-03] w = [0.00903977 0.99773315 1.99322708] w\_new= [0.00902671 0.99773311 1.99324018]

gradient= [-1.30435313e-03 -4.22002186e-06 1.30857315e-03] w = [0.00902671 0.99773311 1.99324018] w\_new= [0.00901366 0.99773307 1.99325327]

gradient= [-1.30241123e-03 -4.21437438e-06 1.30662561e-03] w = [0.00901366 0.99773307 1.99325327] w\_new= [0.00900064 0.99773302 1.99326634]

gradient= [-1.30047224e-03 -4.20873437e-06 1.30468097e-03] w = [0.00900064 0.99773302 1.99326634] w\_new= [0.00898763 0.99773298 1.99327938]

gradient= [-1.29853614e-03 -4.20310183e-06 1.30273924e-03] w = [0.00898763 0.99773298 1.99327938] w\_new= [0.00897465 0.99773294 1.99329241]

gradient= [-1.29660293e-03 -4.19747674e-06 1.30080041e-03] w = [0.00897465 0.99773294 1.99329241] w\_new= [0.00896168 0.9977329 1.99330542]

gradient= [-1.29467261e-03 -4.19185909e-06 1.29886447e-03] w = [0.00896168 0.9977329 1.99330542] w\_new= [0.00894874 0.99773286 1.99331841]

gradient= [-1.29274517e-03 -4.18624888e-06 1.29693142e-03] w = [0.00894874 0.99773286 1.99331841] w\_new= [0.00893581 0.99773281 1.99333138]

gradient= [-1.29082061e-03 -4.18064609e-06 1.29500126e-03] w = [0.00893581 0.99773281 1.99333138] w\_new= [0.0089229 0.99773277 1.99334433]

gradient= [-1.28889893e-03 -4.17505071e-06 1.29307398e-03] w = [0.0089229 0.99773277 1.99334433] w\_new= [0.00891001 0.99773273 1.99335726]

gradient= [-1.28698012e-03 -4.16946274e-06 1.29114958e-03] w = [0.00891001 0.99773273 1.99335726] w\_new= [0.00889714 0.99773269 1.99337017]

gradient= [-1.28506417e-03 -4.16388216e-06 1.28922805e-03] w = [0.00889714 0.99773269 1.99337017] w\_new= [0.00888429 0.99773265 1.99338306]

gradient= [-1.28315109e-03 -4.15830897e-06 1.28730940e-03] w = [0.00888429 0.99773265 1.99338306] w\_new= [0.00887146 0.99773261 1.99339593]

gradient= [-1.28124086e-03 -4.15274316e-06 1.28539360e-03] w = [0.00887146 0.99773261 1.99339593] w\_new= [0.00885865 0.99773256 1.99340879]

gradient= [-1.27933348e-03 -4.14718471e-06 1.28348067e-03] w = [0.00885865 0.99773256 1.99340879] w\_new= [0.00884585 0.99773252 1.99342162]

gradient= [-1.27742896e-03 -4.14163361e-06 1.28157059e-03] w = [0.00884585 0.99773252 1.99342162] w\_new= [0.00883308 0.99773248 1.99343444]

gradient= [-1.27552728e-03 -4.13608987e-06 1.27966337e-03] w = [0.00883308 0.99773248 1.99343444] w\_new= [0.00882032 0.99773244 1.99344724]

gradient= [-1.27362844e-03 -4.13055346e-06 1.27775899e-03] w = [0.00882032 0.99773244 1.99344724] w\_new= [0.00880759 0.9977324 1.99346001]

gradient= [-1.27173243e-03 -4.12502437e-06 1.27585746e-03] w = [0.00880759 0.9977324 1.99346001] w\_new= [0.00879487 0.99773236 1.99347277]

gradient= [-1.26983926e-03 -4.11950261e-06 1.27395876e-03] w = [0.00879487 0.99773236 1.99347277] w\_new= [0.00878217 0.99773232 1.99348551]

gradient= [-1.26794892e-03 -4.11398815e-06 1.27206290e-03] w = [0.00878217 0.99773232 1.99348551] w\_new= [0.00876949 0.99773228 1.99349823]

gradient= [-1.26606139e-03 -4.10848099e-06 1.27016988e-03] w = [0.00876949 0.99773228 1.99349823] w\_new= [0.00875683 0.99773223 1.99351093]

gradient= [-1.26417669e-03 -4.10298112e-06 1.26827967e-03] w = [0.00875683 0.99773223 1.99351093] w\_new= [0.00874419 0.99773219 1.99352362]

gradient= [-1.26229480e-03 -4.09748853e-06 1.26639229e-03] w = [0.00874419 0.99773219 1.99352362] w\_new= [0.00873157 0.99773215 1.99353628]

gradient= [-1.26041573e-03 -4.09200320e-06 1.26450773e-03] w = [0.00873157 0.99773215 1.99353628] w\_new= [0.00871896 0.99773211 1.99354893]

gradient= [-1.25853946e-03 -4.08652514e-06 1.26262598e-03] w = [0.00871896 0.99773211 1.99354893] w\_new= [0.00870638 0.99773207 1.99356155]

gradient= [-1.25666599e-03 -4.08105433e-06 1.26074704e-03] w = [0.00870638 0.99773207 1.99356155] w\_new= [0.00869381 0.99773203 1.99357416]

gradient= [-1.25479532e-03 -4.07559076e-06 1.25887091e-03] w = [0.00869381 0.99773203 1.99357416] w\_new= [0.00868126 0.99773199 1.99358675]

gradient= [-1.25292744e-03 -4.07013441e-06 1.25699757e-03] w = [0.00868126 0.99773199 1.99358675] w\_new= [0.00866873 0.99773195 1.99359932]

gradient= [-1.25106235e-03 -4.06468530e-06 1.25512704e-03] w = [0.00866873 0.99773195 1.99359932] w\_new= [0.00865622 0.99773191 1.99361187]

gradient= [-1.24920005e-03 -4.05924339e-06 1.25325929e-03] w = [0.00865622 0.99773191 1.99361187] w\_new= [0.00864373 0.99773187 1.9936244 ]

gradient= [-1.24734053e-03 -4.05380869e-06 1.25139434e-03] w = [0.00864373 0.99773187 1.9936244 ] w\_new= [0.00863126 0.99773183 1.99363692]

gradient= [-1.24548378e-03 -4.04838118e-06 1.24953216e-03] w = [0.00863126 0.99773183 1.99363692] w\_new= [0.0086188 0.99773179 1.99364941]

gradient= [-1.24362981e-03 -4.04296085e-06 1.24767277e-03] w = [0.0086188 0.99773179 1.99364941] w\_new= [0.00860637 0.99773175 1.99366189]

gradient= [-1.24177861e-03 -4.03754770e-06 1.24581616e-03] w = [0.00860637 0.99773175 1.99366189] w\_new= [0.00859395 0.9977317 1.99367435]

gradient= [-1.23993017e-03 -4.03214171e-06 1.24396231e-03] w = [0.00859395 0.9977317 1.99367435] w\_new= [0.00858155 0.99773166 1.99368679]

gradient= [-1.23808449e-03 -4.02674288e-06 1.24211123e-03] w = [0.00858155 0.99773166 1.99368679] w\_new= [0.00856917 0.99773162 1.99369921]

gradient= [-1.23624157e-03 -4.02135120e-06 1.24026292e-03] w = [0.00856917 0.99773162 1.99369921] w\_new= [0.00855681 0.99773158 1.99371161]

gradient= [-1.23440140e-03 -4.01596665e-06 1.23841737e-03] w = [0.00855681 0.99773158 1.99371161] w\_new= [0.00854446 0.99773154 1.99372399]

gradient= [-1.23256398e-03 -4.01058923e-06 1.23657457e-03] w = [0.00854446 0.99773154 1.99372399] w\_new= [0.00853214 0.9977315 1.99373636]

gradient= [-1.23072930e-03 -4.00521893e-06 1.23473452e-03] w = [0.00853214 0.9977315 1.99373636] w\_new= [0.00851983 0.99773146 1.99374871]

gradient= [-1.22889736e-03 -3.99985573e-06 1.23289722e-03] w = [0.00851983 0.99773146 1.99374871] w\_new= [0.00850754 0.99773142 1.99376104]

gradient= [-1.22706816e-03 -3.99449964e-06 1.23106266e-03] w = [0.00850754 0.99773142 1.99376104] w\_new= [0.00849527 0.99773138 1.99377335]

gradient= [-1.22524169e-03 -3.98915063e-06 1.22923084e-03] w = [0.00849527 0.99773138 1.99377335] w\_new= [0.00848302 0.99773134 1.99378564]

gradient= [-1.22341794e-03 -3.98380871e-06 1.22740175e-03] w = [0.00848302 0.99773134 1.99378564] w\_new= [0.00847078 0.9977313 1.99379791]

gradient= [-1.22159692e-03 -3.97847386e-06 1.22557539e-03] w = [0.00847078 0.9977313 1.99379791] w\_new= [0.00845857 0.99773126 1.99381017]

gradient= [-1.21977862e-03 -3.97314607e-06 1.22375176e-03] w = [0.00845857 0.99773126 1.99381017] w\_new= [0.00844637 0.99773122 1.99382241]

gradient= [-1.21796303e-03 -3.96782533e-06 1.22193086e-03] w = [0.00844637 0.99773122 1.99382241] w\_new= [0.00843419 0.99773118 1.99383462]

gradient= [-1.21615015e-03 -3.96251164e-06 1.22011267e-03] w = [0.00843419 0.99773118 1.99383462] w\_new= [0.00842203 0.99773115 1.99384683]

gradient= [-1.21433998e-03 -3.95720498e-06 1.21829719e-03] w = [0.00842203 0.99773115 1.99384683] w\_new= [0.00840989 0.99773111 1.99385901]

gradient= [-1.21253252e-03 -3.95190534e-06 1.21648442e-03] w = [0.00840989 0.99773111 1.99385901] w\_new= [0.00839776 0.99773107 1.99387117]

gradient= [-1.21072775e-03 -3.94661273e-06 1.21467436e-03] w = [0.00839776 0.99773107 1.99387117] w\_new= [0.00838565 0.99773103 1.99388332]

gradient= [-1.20892568e-03 -3.94132711e-06 1.21286700e-03] w = [0.00838565 0.99773103 1.99388332] w\_new= [0.00837356 0.99773099 1.99389545]

gradient= [-1.20712629e-03 -3.93604850e-06 1.21106234e-03] w = [0.00837356 0.99773099 1.99389545] w\_new= [0.00836149 0.99773095 1.99390756]

gradient= [-1.20532960e-03 -3.93077687e-06 1.20926038e-03] w = [0.00836149 0.99773095 1.99390756] w\_new= [0.00834944 0.99773091 1.99391965]

gradient= [-1.20353559e-03 -3.92551223e-06 1.20746110e-03] w = [0.00834944 0.99773091 1.99391965] w\_new= [0.0083374 0.99773087 1.99393173]

gradient= [-1.20174425e-03 -3.92025455e-06 1.20566450e-03] w = [0.0083374 0.99773087 1.99393173] w\_new= [0.00832539 0.99773083 1.99394378]

gradient= [-1.19995559e-03 -3.91500383e-06 1.20387059e-03] w = [0.00832539 0.99773083 1.99394378] w\_new= [0.00831339 0.99773079 1.99395582]

gradient= [-1.19816960e-03 -3.90976007e-06 1.20207936e-03] w = [0.00831339 0.99773079 1.99395582] w\_new= [0.0083014 0.99773075 1.99396784]

gradient= [-1.19638628e-03 -3.90452325e-06 1.20029080e-03] w = [0.0083014 0.99773075 1.99396784] w\_new= [0.00828944 0.99773071 1.99397985]

gradient= [-1.19460562e-03 -3.89929336e-06 1.19850491e-03] w = [0.00828944 0.99773071 1.99397985] w\_new= [0.00827749 0.99773067 1.99399183]

gradient= [-1.19282761e-03 -3.89407039e-06 1.19672168e-03] w = [0.00827749 0.99773067 1.99399183] w\_new= [0.00826557 0.99773064 1.9940038 ]

gradient= [-1.19105227e-03 -3.88885434e-06 1.19494112e-03] w = [0.00826557 0.99773064 1.9940038 ] w\_new= [0.00825366 0.9977306 1.99401575]

gradient= [-1.18927957e-03 -3.88364520e-06 1.19316321e-03] w = [0.00825366 0.9977306 1.99401575] w\_new= [0.00824176 0.99773056 1.99402768]

gradient= [-1.18750952e-03 -3.87844295e-06 1.19138796e-03] w = [0.00824176 0.99773056 1.99402768] w\_new= [0.00822989 0.99773052 1.99403959]

gradient= [-1.18574211e-03 -3.87324759e-06 1.18961536e-03] w = [0.00822989 0.99773052 1.99403959] w\_new= [0.00821803 0.99773048 1.99405149]

gradient= [-1.18397734e-03 -3.86805911e-06 1.18784540e-03] w = [0.00821803 0.99773048 1.99405149] w\_new= [0.00820619 0.99773044 1.99406337]

gradient= [-1.18221520e-03 -3.86287750e-06 1.18607808e-03] w = [0.00820619 0.99773044 1.99406337] w\_new= [0.00819437 0.9977304 1.99407523]

gradient= [-1.18045570e-03 -3.85770275e-06 1.18431340e-03] w = [0.00819437 0.9977304 1.99407523] w\_new= [0.00818256 0.99773036 1.99408707]

gradient= [-1.17869882e-03 -3.85253486e-06 1.18255136e-03] w = [0.00818256 0.99773036 1.99408707] w\_new= [0.00817078 0.99773033 1.9940989 ]

gradient= [-1.17694457e-03 -3.84737380e-06 1.18079194e-03] w = [0.00817078 0.99773033 1.9940989 ] w\_new= [0.00815901 0.99773029 1.99411071]

gradient= [-1.17519293e-03 -3.84221958e-06 1.17903515e-03] w = [0.00815901 0.99773029 1.99411071] w\_new= [0.00814726 0.99773025 1.9941225 ]

gradient= [-1.17344391e-03 -3.83707218e-06 1.17728098e-03] w = [0.00814726 0.99773025 1.9941225 ] w\_new= [0.00813552 0.99773021 1.99413427]

gradient= [-1.17169750e-03 -3.83193160e-06 1.17552943e-03] w = [0.00813552 0.99773021 1.99413427] w\_new= [0.0081238 0.99773017 1.99414602]

gradient= [-1.16995369e-03 -3.82679783e-06 1.17378049e-03] w = [0.0081238 0.99773017 1.99414602] w\_new= [0.0081121 0.99773013 1.99415776]

gradient= [-1.16821249e-03 -3.82167085e-06 1.17203417e-03] w = [0.0081121 0.99773013 1.99415776] w\_new= [0.00810042 0.9977301 1.99416948]

gradient= [-1.16647389e-03 -3.81655067e-06 1.17029044e-03] w = [0.00810042 0.9977301 1.99416948] w\_new= [0.00808876 0.99773006 1.99418118]

gradient= [-1.16473789e-03 -3.81143726e-06 1.16854932e-03] w = [0.00808876 0.99773006 1.99418118] w\_new= [0.00807711 0.99773002 1.99419287]

gradient= [-1.16300447e-03 -3.80633062e-06 1.16681080e-03] w = [0.00807711 0.99773002 1.99419287] w\_new= [0.00806548 0.99772998 1.99420454]

gradient= [-1.16127365e-03 -3.80123075e-06 1.16507488e-03] w = [0.00806548 0.99772998 1.99420454] w\_new= [0.00805387 0.99772994 1.99421619]

gradient= [-1.15954540e-03 -3.79613763e-06 1.16334154e-03] w = [0.00805387 0.99772994 1.99421619] w\_new= [0.00804227 0.9977299 1.99422782]

gradient= [-1.15781974e-03 -3.79105125e-06 1.16161079e-03] w = [0.00804227 0.9977299 1.99422782] w\_new= [0.00803069 0.99772987 1.99423944]

gradient= [-1.15609665e-03 -3.78597161e-06 1.15988262e-03] w = [0.00803069 0.99772987 1.99423944] w\_new= [0.00801913 0.99772983 1.99425104]

gradient= [-1.15437614e-03 -3.78089870e-06 1.15815703e-03] w = [0.00801913 0.99772983 1.99425104] w\_new= [0.00800759 0.99772979 1.99426262]

gradient= [-1.15265819e-03 -3.77583251e-06 1.15643402e-03] w = [0.00800759 0.99772979 1.99426262] w\_new= [0.00799606 0.99772975 1.99427418]

gradient= [-1.15094281e-03 -3.77077302e-06 1.15471358e-03] w = [0.00799606 0.99772975 1.99427418] w\_new= [0.00798455 0.99772972 1.99428573]

gradient= [-1.14922998e-03 -3.76572023e-06 1.15299570e-03] w = [0.00798455 0.99772972 1.99428573] w\_new= [0.00797306 0.99772968 1.99429726]

gradient= [-1.14751972e-03 -3.76067414e-06 1.15128039e-03] w = [0.00797306 0.99772968 1.99429726] w\_new= [0.00796159 0.99772964 1.99430877]

gradient= [-1.14581200e-03 -3.75563473e-06 1.14956764e-03] w = [0.00796159 0.99772964 1.99430877] w\_new= [0.00795013 0.9977296 1.99432027]

gradient= [-1.14410684e-03 -3.75060199e-06 1.14785744e-03] w = [0.00795013 0.9977296 1.99432027] w\_new= [0.00793869 0.99772957 1.99433175]

gradient= [-1.14240422e-03 -3.74557592e-06 1.14614980e-03] w = [0.00793869 0.99772957 1.99433175] w\_new= [0.00792726 0.99772953 1.99434321]

gradient= [-1.14070414e-03 -3.74055650e-06 1.14444470e-03] w = [0.00792726 0.99772953 1.99434321] w\_new= [0.00791586 0.99772949 1.99435465]

gradient= [-1.13900660e-03 -3.73554373e-06 1.14274214e-03] w = [0.00791586 0.99772949 1.99435465] w\_new= [0.00790447 0.99772945 1.99436608]

gradient= [-1.13731159e-03 -3.73053760e-06 1.14104213e-03] w = [0.00790447 0.99772945 1.99436608] w\_new= [0.00789309 0.99772942 1.99437749]

gradient= [-1.13561912e-03 -3.72553810e-06 1.13934466e-03] w = [0.00789309 0.99772942 1.99437749] w\_new= [0.00788174 0.99772938 1.99438888]

gradient= [-1.13392917e-03 -3.72054523e-06 1.13764971e-03] w = [0.00788174 0.99772938 1.99438888] w\_new= [0.0078704 0.99772934 1.99440026]

gradient= [-1.13224174e-03 -3.71555896e-06 1.13595730e-03] w = [0.0078704 0.99772934 1.99440026] w\_new= [0.00785907 0.9977293 1.99441162]

gradient= [-1.13055683e-03 -3.71057930e-06 1.13426741e-03] w = [0.00785907 0.9977293 1.99441162] w\_new= [0.00784777 0.99772927 1.99442296]

gradient= [-1.12887443e-03 -3.70560624e-06 1.13258004e-03] w = [0.00784777 0.99772927 1.99442296] w\_new= [0.00783648 0.99772923 1.99443429]

gradient= [-1.12719455e-03 -3.70063976e-06 1.13089519e-03] w = [0.00783648 0.99772923 1.99443429] w\_new= [0.00782521 0.99772919 1.9944456 ]

gradient= [-1.12551717e-03 -3.69567986e-06 1.12921285e-03] w = [0.00782521 0.99772919 1.9944456 ] w\_new= [0.00781395 0.99772916 1.99445689]

gradient= [-1.12384230e-03 -3.69072652e-06 1.12753302e-03] w = [0.00781395 0.99772916 1.99445689] w\_new= [0.00780271 0.99772912 1.99446817]

gradient= [-1.12216992e-03 -3.68577975e-06 1.12585570e-03] w = [0.00780271 0.99772912 1.99446817] w\_new= [0.00779149 0.99772908 1.99447942]

gradient= [-1.12050004e-03 -3.68083954e-06 1.12418088e-03] w = [0.00779149 0.99772908 1.99447942] w\_new= [0.00778029 0.99772905 1.99449067]

gradient= [-1.11883266e-03 -3.67590586e-06 1.12250856e-03] w = [0.00778029 0.99772905 1.99449067] w\_new= [0.0077691 0.99772901 1.99450189]

gradient= [-1.11716776e-03 -3.67097872e-06 1.12083874e-03] w = [0.0077691 0.99772901 1.99450189] w\_new= [0.00775793 0.99772897 1.9945131 ]

gradient= [-1.11550534e-03 -3.66605811e-06 1.11917140e-03] w = [0.00775793 0.99772897 1.9945131 ] w\_new= [0.00774677 0.99772894 1.99452429]

gradient= [-1.11384541e-03 -3.66114401e-06 1.11750656e-03] w = [0.00774677 0.99772894 1.99452429] w\_new= [0.00773563 0.9977289 1.99453547]

gradient= [-1.11218796e-03 -3.65623643e-06 1.11584419e-03] w = [0.00773563 0.9977289 1.99453547] w\_new= [0.00772451 0.99772886 1.99454662]

gradient= [-1.11053297e-03 -3.65133534e-06 1.11418431e-03] w = [0.00772451 0.99772886 1.99454662] w\_new= [0.00771341 0.99772883 1.99455777]

gradient= [-1.10888046e-03 -3.64644075e-06 1.11252690e-03] w = [0.00771341 0.99772883 1.99455777] w\_new= [0.00770232 0.99772879 1.99456889]

gradient= [-1.10723042e-03 -3.64155264e-06 1.11087197e-03] w = [0.00770232 0.99772879 1.99456889] w\_new= [0.00769125 0.99772875 1.99458 ]

gradient= [-1.10558283e-03 -3.63667101e-06 1.10921950e-03] w = [0.00769125 0.99772875 1.99458 ] w\_new= [0.00768019 0.99772872 1.99459109]

gradient= [-1.10393771e-03 -3.63179584e-06 1.10756950e-03] w = [0.00768019 0.99772872 1.99459109] w\_new= [0.00766915 0.99772868 1.99460217]

gradient= [-1.10229504e-03 -3.62692713e-06 1.10592197e-03] w = [0.00766915 0.99772868 1.99460217] w\_new= [0.00765813 0.99772864 1.99461323]

gradient= [-1.10065482e-03 -3.62206487e-06 1.10427688e-03] w = [0.00765813 0.99772864 1.99461323] w\_new= [0.00764712 0.99772861 1.99462427]

gradient= [-1.09901705e-03 -3.61720905e-06 1.10263426e-03] w = [0.00764712 0.99772861 1.99462427] w\_new= [0.00763613 0.99772857 1.9946353 ]

gradient= [-1.09738172e-03 -3.61235967e-06 1.10099408e-03] w = [0.00763613 0.99772857 1.9946353 ] w\_new= [0.00762516 0.99772854 1.99464631]

gradient= [-1.09574883e-03 -3.60751671e-06 1.09935635e-03] w = [0.00762516 0.99772854 1.99464631] w\_new= [0.0076142 0.9977285 1.9946573]

gradient= [-1.09411838e-03 -3.60268016e-06 1.09772106e-03] w = [0.0076142 0.9977285 1.9946573] w\_new= [0.00760326 0.99772846 1.99466828]

gradient= [-1.09249037e-03 -3.59785002e-06 1.09608822e-03] w = [0.00760326 0.99772846 1.99466828] w\_new= [0.00759233 0.99772843 1.99467924]

gradient= [-1.09086478e-03 -3.59302629e-06 1.09445781e-03] w = [0.00759233 0.99772843 1.99467924] w\_new= [0.00758143 0.99772839 1.99469018]

gradient= [-1.08924162e-03 -3.58820894e-06 1.09282983e-03] w = [0.00758143 0.99772839 1.99469018] w\_new= [0.00757053 0.99772836 1.99470111]

gradient= [-1.08762088e-03 -3.58339797e-06 1.09120427e-03] w = [0.00757053 0.99772836 1.99470111] w\_new= [0.00755966 0.99772832 1.99471202]

gradient= [-1.08600255e-03 -3.57859338e-06 1.08958115e-03] w = [0.00755966 0.99772832 1.99471202] w\_new= [0.0075488 0.99772828 1.99472292]

gradient= [-1.08438665e-03 -3.57379515e-06 1.08796044e-03] w = [0.0075488 0.99772828 1.99472292] w\_new= [0.00753795 0.99772825 1.9947338 ]

gradient= [-1.08277315e-03 -3.56900328e-06 1.08634216e-03] w = [0.00753795 0.99772825 1.9947338 ] w\_new= [0.00752713 0.99772821 1.99474466]

gradient= [-1.08116206e-03 -3.56421776e-06 1.08472628e-03] w = [0.00752713 0.99772821 1.99474466] w\_new= [0.00751631 0.99772818 1.99475551]

gradient= [-1.07955338e-03 -3.55943858e-06 1.08311282e-03] w = [0.00751631 0.99772818 1.99475551] w\_new= [0.00750552 0.99772814 1.99476634]

gradient= [-1.07794709e-03 -3.55466573e-06 1.08150176e-03] w = [0.00750552 0.99772814 1.99476634] w\_new= [0.00749474 0.99772811 1.99477716]

gradient= [-1.07634321e-03 -3.54989921e-06 1.07989311e-03] w = [0.00749474 0.99772811 1.99477716] w\_new= [0.00748398 0.99772807 1.99478795]

gradient= [-1.07474171e-03 -3.54513900e-06 1.07828685e-03] w = [0.00748398 0.99772807 1.99478795] w\_new= [0.00747323 0.99772803 1.99479874]

gradient= [-1.07314261e-03 -3.54038510e-06 1.07668299e-03] w = [0.00747323 0.99772803 1.99479874] w\_new= [0.0074625 0.997728 1.9948095]

gradient= [-1.07154589e-03 -3.53563750e-06 1.07508153e-03] w = [0.0074625 0.997728 1.9948095] w\_new= [0.00745178 0.99772796 1.99482026]

gradient= [-1.06995155e-03 -3.53089618e-06 1.07348245e-03] w = [0.00745178 0.99772796 1.99482026] w\_new= [0.00744108 0.99772793 1.99483099]

gradient= [-1.06835959e-03 -3.52616115e-06 1.07188576e-03] w = [0.00744108 0.99772793 1.99483099] w\_new= [0.0074304 0.99772789 1.99484171]

gradient= [-1.06677001e-03 -3.52143240e-06 1.07029144e-03] w = [0.0074304 0.99772789 1.99484171] w\_new= [0.00741973 0.99772786 1.99485241]

gradient= [-1.06518280e-03 -3.51670991e-06 1.06869951e-03] w = [0.00741973 0.99772786 1.99485241] w\_new= [0.00740908 0.99772782 1.9948631 ]

gradient= [-1.06359796e-03 -3.51199368e-06 1.06710995e-03] w = [0.00740908 0.99772782 1.9948631 ] w\_new= [0.00739844 0.99772779 1.99487377]

gradient= [-1.06201548e-03 -3.50728369e-06 1.06552276e-03] w = [0.00739844 0.99772779 1.99487377] w\_new= [0.00738782 0.99772775 1.99488442]

gradient= [-1.06043536e-03 -3.50257995e-06 1.06393794e-03] w = [0.00738782 0.99772775 1.99488442] w\_new= [0.00737722 0.99772772 1.99489506]

gradient= [-1.05885760e-03 -3.49788244e-06 1.06235549e-03] w = [0.00737722 0.99772772 1.99489506] w\_new= [0.00736663 0.99772768 1.99490569]

gradient= [-1.05728220e-03 -3.49319116e-06 1.06077539e-03] w = [0.00736663 0.99772768 1.99490569] w\_new= [0.00735606 0.99772765 1.9949163 ]

gradient= [-1.05570914e-03 -3.48850609e-06 1.05919765e-03] w = [0.00735606 0.99772765 1.9949163 ] w\_new= [0.0073455 0.99772761 1.99492689]

gradient= [-1.05413843e-03 -3.48382723e-06 1.05762226e-03] w = [0.0073455 0.99772761 1.99492689] w\_new= [0.00733496 0.99772758 1.99493746]

gradient= [-1.05257007e-03 -3.47915458e-06 1.05604922e-03] w = [0.00733496 0.99772758 1.99493746] w\_new= [0.00732443 0.99772754 1.99494802]

gradient= [-1.05100404e-03 -3.47448811e-06 1.05447853e-03] w = [0.00732443 0.99772754 1.99494802] w\_new= [0.00731392 0.99772751 1.99495857]

gradient= [-1.04944035e-03 -3.46982783e-06 1.05291018e-03] w = [0.00731392 0.99772751 1.99495857] w\_new= [0.00730343 0.99772747 1.9949691 ]

gradient= [-1.04787900e-03 -3.46517372e-06 1.05134417e-03] w = [0.00730343 0.99772747 1.9949691 ] w\_new= [0.00729295 0.99772744 1.99497961]

gradient= [-1.04631997e-03 -3.46052578e-06 1.04978049e-03] w = [0.00729295 0.99772744 1.99497961] w\_new= [0.00728249 0.9977274 1.99499011]

gradient= [-1.04476327e-03 -3.45588401e-06 1.04821915e-03] w = [0.00728249 0.9977274 1.99499011] w\_new= [0.00727204 0.99772737 1.99500059]

gradient= [-1.04320889e-03 -3.45124838e-06 1.04666014e-03] w = [0.00727204 0.99772737 1.99500059] w\_new= [0.00726161 0.99772734 1.99501106]

gradient= [-1.04165683e-03 -3.44661890e-06 1.04510345e-03] w = [0.00726161 0.99772734 1.99501106] w\_new= [0.00725119 0.9977273 1.99502151]

gradient= [-1.04010708e-03 -3.44199555e-06 1.04354908e-03] w = [0.00725119 0.9977273 1.99502151] w\_new= [0.00724079 0.99772727 1.99503194]

gradient= [-1.03855965e-03 -3.43737833e-06 1.04199703e-03] w = [0.00724079 0.99772727 1.99503194] w\_new= [0.0072304 0.99772723 1.99504236]

gradient= [-1.03701453e-03 -3.43276723e-06 1.04044729e-03] w = [0.0072304 0.99772723 1.99504236] w\_new= [0.00722003 0.9977272 1.99505277]

gradient= [-1.03547171e-03 -3.42816224e-06 1.03889987e-03] w = [0.00722003 0.9977272 1.99505277] w\_new= [0.00720968 0.99772716 1.99506316]

gradient= [-1.03393119e-03 -3.42356335e-06 1.03735475e-03] w = [0.00720968 0.99772716 1.99506316] w\_new= [0.00719934 0.99772713 1.99507353]

gradient= [-1.03239297e-03 -3.41897056e-06 1.03581194e-03] w = [0.00719934 0.99772713 1.99507353] w\_new= [0.00718901 0.9977271 1.99508389]

gradient= [-1.03085704e-03 -3.41438386e-06 1.03427143e-03] w = [0.00718901 0.9977271 1.99508389] w\_new= [0.00717871 0.99772706 1.99509423]

gradient= [-1.02932341e-03 -3.40980323e-06 1.03273321e-03] w = [0.00717871 0.99772706 1.99509423] w\_new= [0.00716841 0.99772703 1.99510456]

gradient= [-1.02779206e-03 -3.40522868e-06 1.03119729e-03] w = [0.00716841 0.99772703 1.99510456] w\_new= [0.00715813 0.99772699 1.99511487]

gradient= [-1.02626300e-03 -3.40066019e-06 1.02966366e-03] w = [0.00715813 0.99772699 1.99511487] w\_new= [0.00714787 0.99772696 1.99512517]

gradient= [-1.02473622e-03 -3.39609776e-06 1.02813232e-03] w = [0.00714787 0.99772696 1.99512517] w\_new= [0.00713762 0.99772693 1.99513545]

gradient= [-1.02321171e-03 -3.39154137e-06 1.02660326e-03] w = [0.00713762 0.99772693 1.99513545] w\_new= [0.00712739 0.99772689 1.99514572]

gradient= [-1.02168948e-03 -3.38699102e-06 1.02507648e-03] w = [0.00712739 0.99772689 1.99514572] w\_new= [0.00711718 0.99772686 1.99515597]

gradient= [-1.02016952e-03 -3.38244671e-06 1.02355197e-03] w = [0.00711718 0.99772686 1.99515597] w\_new= [0.00710697 0.99772682 1.9951662 ]

gradient= [-1.01865183e-03 -3.37790841e-06 1.02202974e-03] w = [0.00710697 0.99772682 1.9951662 ] w\_new= [0.00709679 0.99772679 1.99517642]

gradient= [-1.01713640e-03 -3.37337614e-06 1.02050978e-03] w = [0.00709679 0.99772679 1.99517642] w\_new= [0.00708662 0.99772676 1.99518663]

gradient= [-1.01562324e-03 -3.36884987e-06 1.01899209e-03] w = [0.00708662 0.99772676 1.99518663] w\_new= [0.00707646 0.99772672 1.99519682]

gradient= [-1.01411233e-03 -3.36432960e-06 1.01747666e-03] w = [0.00707646 0.99772672 1.99519682] w\_new= [0.00706632 0.99772669 1.99520699]

gradient= [-1.01260367e-03 -3.35981532e-06 1.01596348e-03] w = [0.00706632 0.99772669 1.99520699] w\_new= [0.00705619 0.99772666 1.99521715]

gradient= [-1.01109726e-03 -3.35530703e-06 1.01445257e-03] w = [0.00705619 0.99772666 1.99521715] w\_new= [0.00704608 0.99772662 1.9952273 ]

gradient= [-1.00959310e-03 -3.35080472e-06 1.01294391e-03] w = [0.00704608 0.99772662 1.9952273 ] w\_new= [0.00703599 0.99772659 1.99523743]

gradient= [-1.00809119e-03 -3.34630837e-06 1.01143749e-03] w = [0.00703599 0.99772659 1.99523743] w\_new= [0.00702591 0.99772655 1.99524754]

gradient= [-1.00659151e-03 -3.34181798e-06 1.00993333e-03] w = [0.00702591 0.99772655 1.99524754] w\_new= [0.00701584 0.99772652 1.99525764]

gradient= [-1.00509407e-03 -3.33733355e-06 1.00843140e-03] w = [0.00701584 0.99772652 1.99525764] w\_new= [0.00700579 0.99772649 1.99526772]

gradient= [-1.00359887e-03 -3.33285506e-06 1.00693172e-03] w = [0.00700579 0.99772649 1.99526772] w\_new= [0.00699575 0.99772645 1.99527779]

gradient= [-1.00210589e-03 -3.32838251e-06 1.00543427e-03] w = [0.00699575 0.99772645 1.99527779] w\_new= [0.00698573 0.99772642 1.99528785]

gradient= [-1.00061514e-03 -3.32391589e-06 1.00393906e-03] w = [0.00698573 0.99772642 1.99528785] w\_new= [0.00697572 0.99772639 1.99529789]

gradient= [-9.99126615e-04 -3.31945519e-06 1.00244607e-03] w = [0.00697572 0.99772639 1.99529789] w\_new= [0.00696573 0.99772635 1.99530791]

gradient= [-9.97640309e-04 -3.31500040e-06 1.00095531e-03] w = [0.00696573 0.99772635 1.99530791] w\_new= [0.00695576 0.99772632 1.99531792]

gradient= [-9.96156221e-04 -3.31055152e-06 9.99466772e-04] w = [0.00695576 0.99772632 1.99531792] w\_new= [0.0069458 0.99772629 1.99532792]

gradient= [-9.94674345e-04 -3.30610854e-06 9.97980454e-04] w = [0.0069458 0.99772629 1.99532792] w\_new= [0.00693585 0.99772626 1.9953379 ]

gradient= [-9.93194680e-04 -3.30167144e-06 9.96496352e-04] w = [0.00693585 0.99772626 1.9953379 ] w\_new= [0.00692592 0.99772622 1.99534786]

gradient= [-9.91717222e-04 -3.29724024e-06 9.95014462e-04] w = [0.00692592 0.99772622 1.99534786] w\_new= [0.006916 0.99772619 1.99535781]

gradient= [-9.90241967e-04 -3.29281490e-06 9.93534782e-04] w = [0.006916 0.99772619 1.99535781] w\_new= [0.0069061 0.99772616 1.99536775]

gradient= [-9.88768912e-04 -3.28839544e-06 9.92057308e-04] w = [0.0069061 0.99772616 1.99536775] w\_new= [0.00689621 0.99772612 1.99537767]

gradient= [-9.87298055e-04 -3.28398183e-06 9.90582037e-04] w = [0.00689621 0.99772612 1.99537767] w\_new= [0.00688634 0.99772609 1.99538757]

gradient= [-9.85829391e-04 -3.27957407e-06 9.89108965e-04] w = [0.00688634 0.99772609 1.99538757] w\_new= [0.00687648 0.99772606 1.99539746]

gradient= [-9.84362917e-04 -3.27517216e-06 9.87638089e-04] w = [0.00687648 0.99772606 1.99539746] w\_new= [0.00686663 0.99772603 1.99540734]

gradient= [-9.82898630e-04 -3.27077609e-06 9.86169406e-04] w = [0.00686663 0.99772603 1.99540734] w\_new= [0.00685681 0.99772599 1.9954172 ]

gradient= [-9.81436527e-04 -3.26638585e-06 9.84702913e-04] w = [0.00685681 0.99772599 1.9954172 ] w\_new= [0.00684699 0.99772596 1.99542705]

gradient= [-9.79976605e-04 -3.26200142e-06 9.83238606e-04] w = [0.00684699 0.99772596 1.99542705] w\_new= [0.00683719 0.99772593 1.99543688]

gradient= [-9.78518860e-04 -3.25762281e-06 9.81776482e-04] w = [0.00683719 0.99772593 1.99543688] w\_new= [0.00682741 0.99772589 1.9954467 ]

gradient= [-9.77063288e-04 -3.25325001e-06 9.80316538e-04] w = [0.00682741 0.99772589 1.9954467 ] w\_new= [0.00681764 0.99772586 1.9954565 ]

gradient= [-9.75609888e-04 -3.24888300e-06 9.78858771e-04] w = [0.00681764 0.99772586 1.9954565 ] w\_new= [0.00680788 0.99772583 1.99546629]

gradient= [-9.74158655e-04 -3.24452179e-06 9.77403176e-04] w = [0.00680788 0.99772583 1.99546629] w\_new= [0.00679814 0.9977258 1.99547606]

gradient= [-9.72709586e-04 -3.24016636e-06 9.75949752e-04] w = [0.00679814 0.9977258 1.99547606] w\_new= [0.00678841 0.99772576 1.99548582]

gradient= [-9.71262678e-04 -3.23581670e-06 9.74498494e-04] w = [0.00678841 0.99772576 1.99548582] w\_new= [0.0067787 0.99772573 1.99549557]

gradient= [-9.69817927e-04 -3.23147281e-06 9.73049400e-04] w = [0.0067787 0.99772573 1.99549557] w\_new= [0.006769 0.9977257 1.9955053]

gradient= [-9.68375332e-04 -3.22713469e-06 9.71602466e-04] w = [0.006769 0.9977257 1.9955053] w\_new= [0.00675932 0.99772567 1.99551502]

gradient= [-9.66934887e-04 -3.22280231e-06 9.70157689e-04] w = [0.00675932 0.99772567 1.99551502] w\_new= [0.00674965 0.99772564 1.99552472]

gradient= [-9.65496591e-04 -3.21847568e-06 9.68715066e-04] w = [0.00674965 0.99772564 1.99552472] w\_new= [0.00673999 0.9977256 1.9955344 ]

gradient= [-9.64060439e-04 -3.21415479e-06 9.67274594e-04] w = [0.00673999 0.9977256 1.9955344 ] w\_new= [0.00673035 0.99772557 1.99554408]

gradient= [-9.62626429e-04 -3.20983963e-06 9.65836268e-04] w = [0.00673035 0.99772557 1.99554408] w\_new= [0.00672073 0.99772554 1.99555374]

gradient= [-9.61194557e-04 -3.20553019e-06 9.64400087e-04] w = [0.00672073 0.99772554 1.99555374] w\_new= [0.00671111 0.99772551 1.99556338]

gradient= [-9.59764821e-04 -3.20122647e-06 9.62966047e-04] w = [0.00671111 0.99772551 1.99556338] w\_new= [0.00670152 0.99772548 1.99557301]

gradient= [-9.58337216e-04 -3.19692846e-06 9.61534145e-04] w = [0.00670152 0.99772548 1.99557301] w\_new= [0.00669193 0.99772544 1.99558262]

gradient= [-9.56911740e-04 -3.19263614e-06 9.60104376e-04] w = [0.00669193 0.99772544 1.99558262] w\_new= [0.00668236 0.99772541 1.99559223]

gradient= [-9.55488390e-04 -3.18834952e-06 9.58676740e-04] w = [0.00668236 0.99772541 1.99559223] w\_new= [0.00667281 0.99772538 1.99560181]

gradient= [-9.54067162e-04 -3.18406858e-06 9.57251231e-04] w = [0.00667281 0.99772538 1.99560181] w\_new= [0.00666327 0.99772535 1.99561138]

gradient= [-9.52648054e-04 -3.17979332e-06 9.55827847e-04] w = [0.00666327 0.99772535 1.99561138] w\_new= [0.00665374 0.99772532 1.99562094]

gradient= [-9.51231061e-04 -3.17552373e-06 9.54406585e-04] w = [0.00665374 0.99772532 1.99562094] w\_new= [0.00664423 0.99772528 1.99563049]

gradient= [-9.49816182e-04 -3.17125981e-06 9.52987442e-04] w = [0.00664423 0.99772528 1.99563049] w\_new= [0.00663473 0.99772525 1.99564002]

gradient= [-9.48403412e-04 -3.16700154e-06 9.51570414e-04] w = [0.00663473 0.99772525 1.99564002] w\_new= [0.00662525 0.99772522 1.99564953]

gradient= [-9.46992749e-04 -3.16274892e-06 9.50155498e-04] w = [0.00662525 0.99772522 1.99564953] w\_new= [0.00661578 0.99772519 1.99565903]

gradient= [-9.45584189e-04 -3.15850193e-06 9.48742691e-04] w = [0.00661578 0.99772519 1.99565903] w\_new= [0.00660632 0.99772516 1.99566852]

gradient= [-9.44177729e-04 -3.15426059e-06 9.47331990e-04] w = [0.00660632 0.99772516 1.99566852] w\_new= [0.00659688 0.99772513 1.99567799]

gradient= [-9.42773367e-04 -3.15002486e-06 9.45923392e-04] w = [0.00659688 0.99772513 1.99567799] w\_new= [0.00658745 0.99772509 1.99568745]

gradient= [-9.41371098e-04 -3.14579476e-06 9.44516893e-04] w = [0.00658745 0.99772509 1.99568745] w\_new= [0.00657804 0.99772506 1.9956969 ]

gradient= [-9.39970920e-04 -3.14157027e-06 9.43112491e-04] w = [0.00657804 0.99772506 1.9956969 ] w\_new= [0.00656864 0.99772503 1.99570633]

gradient= [-9.38572830e-04 -3.13735138e-06 9.41710182e-04] w = [0.00656864 0.99772503 1.99570633] w\_new= [0.00655925 0.997725 1.99571575]

gradient= [-9.37176825e-04 -3.13313808e-06 9.40309963e-04] w = [0.00655925 0.997725 1.99571575] w\_new= [0.00654988 0.99772497 1.99572515]

gradient= [-9.35782901e-04 -3.12893038e-06 9.38911831e-04] w = [0.00654988 0.99772497 1.99572515] w\_new= [0.00654052 0.99772494 1.99573454]

gradient= [-9.34391055e-04 -3.12472826e-06 9.37515783e-04] w = [0.00654052 0.99772494 1.99573454] w\_new= [0.00653118 0.99772491 1.99574391]

gradient= [-9.33001285e-04 -3.12053171e-06 9.36121816e-04] w = [0.00653118 0.99772491 1.99574391] w\_new= [0.00652185 0.99772488 1.99575328]

gradient= [-9.31613586e-04 -3.11634073e-06 9.34729927e-04] w = [0.00652185 0.99772488 1.99575328] w\_new= [0.00651253 0.99772484 1.99576262]

gradient= [-9.30227957e-04 -3.11215530e-06 9.33340112e-04] w = [0.00651253 0.99772484 1.99576262] w\_new= [0.00650323 0.99772481 1.99577196]

gradient= [-9.28844393e-04 -3.10797543e-06 9.31952369e-04] w = [0.00650323 0.99772481 1.99577196] w\_new= [0.00649394 0.99772478 1.99578128]

gradient= [-9.27462893e-04 -3.10380111e-06 9.30566694e-04] w = [0.00649394 0.99772478 1.99578128] w\_new= [0.00648467 0.99772475 1.99579058]

gradient= [-9.26083452e-04 -3.09963232e-06 9.29183084e-04] w = [0.00648467 0.99772475 1.99579058] w\_new= [0.00647541 0.99772472 1.99579987]

gradient= [-9.24706067e-04 -3.09546907e-06 9.27801536e-04] w = [0.00647541 0.99772472 1.99579987] w\_new= [0.00646616 0.99772469 1.99580915]

gradient= [-9.23330736e-04 -3.09131133e-06 9.26422048e-04] w = [0.00646616 0.99772469 1.99580915] w\_new= [0.00645693 0.99772466 1.99581842]

gradient= [-9.21957456e-04 -3.08715912e-06 9.25044615e-04] w = [0.00645693 0.99772466 1.99581842] w\_new= [0.00644771 0.99772463 1.99582767]

gradient= [-9.20586223e-04 -3.08301241e-06 9.23669235e-04] w = [0.00644771 0.99772463 1.99582767] w\_new= [0.0064385 0.9977246 1.9958369]

gradient= [-9.19217034e-04 -3.07887120e-06 9.22295906e-04] w = [0.0064385 0.9977246 1.9958369] w\_new= [0.00642931 0.99772457 1.99584613]

gradient= [-9.17849887e-04 -3.07473549e-06 9.20924623e-04] w = [0.00642931 0.99772457 1.99584613] w\_new= [0.00642013 0.99772453 1.99585534]

gradient= [-9.16484778e-04 -3.07060527e-06 9.19555383e-04] w = [0.00642013 0.99772453 1.99585534] w\_new= [0.00641097 0.9977245 1.99586453]

gradient= [-9.15121704e-04 -3.06648052e-06 9.18188184e-04] w = [0.00641097 0.9977245 1.99586453] w\_new= [0.00640181 0.99772447 1.99587371]

gradient= [-9.13760662e-04 -3.06236125e-06 9.16823023e-04] w = [0.00640181 0.99772447 1.99587371] w\_new= [0.00639268 0.99772444 1.99588288]

gradient= [-9.12401649e-04 -3.05824744e-06 9.15459897e-04] w = [0.00639268 0.99772444 1.99588288] w\_new= [0.00638355 0.99772441 1.99589204]

gradient= [-9.11044662e-04 -3.05413909e-06 9.14098802e-04] w = [0.00638355 0.99772441 1.99589204] w\_new= [0.00637444 0.99772438 1.99590118]

gradient= [-9.09689699e-04 -3.05003620e-06 9.12739735e-04] w = [0.00637444 0.99772438 1.99590118] w\_new= [0.00636535 0.99772435 1.9959103 ]

gradient= [-9.08336755e-04 -3.04593874e-06 9.11382694e-04] w = [0.00636535 0.99772435 1.9959103 ] w\_new= [0.00635626 0.99772432 1.99591942]

gradient= [-9.06985828e-04 -3.04184673e-06 9.10027675e-04] w = [0.00635626 0.99772432 1.99591942] w\_new= [0.00634719 0.99772429 1.99592852]

gradient= [-9.05636915e-04 -3.03776014e-06 9.08674675e-04] w = [0.00634719 0.99772429 1.99592852] w\_new= [0.00633814 0.99772426 1.9959376 ]

gradient= [-9.04290013e-04 -3.03367897e-06 9.07323692e-04] w = [0.00633814 0.99772426 1.9959376 ] w\_new= [0.00632909 0.99772423 1.99594668]

gradient= [-9.02945119e-04 -3.02960323e-06 9.05974722e-04] w = [0.00632909 0.99772423 1.99594668] w\_new= [0.00632006 0.9977242 1.99595574]

gradient= [-9.01602229e-04 -3.02553289e-06 9.04627762e-04] w = [0.00632006 0.9977242 1.99595574] w\_new= [0.00631105 0.99772417 1.99596478]

gradient= [-9.00261342e-04 -3.02146795e-06 9.03282810e-04] w = [0.00631105 0.99772417 1.99596478] w\_new= [0.00630204 0.99772414 1.99597382]

gradient= [-8.98922453e-04 -3.01740840e-06 9.01939862e-04] w = [0.00630204 0.99772414 1.99597382] w\_new= [0.00629306 0.99772411 1.99598284]

gradient= [-8.97585561e-04 -3.01335424e-06 9.00598915e-04] w = [0.00629306 0.99772411 1.99598284] w\_new= [0.00628408 0.99772408 1.99599184]

gradient= [-8.96250661e-04 -3.00930547e-06 8.99259966e-04] w = [0.00628408 0.99772408 1.99599184] w\_new= [0.00627512 0.99772405 1.99600083]

gradient= [-8.94917751e-04 -3.00526206e-06 8.97923013e-04] w = [0.00627512 0.99772405 1.99600083] w\_new= [0.00626617 0.99772402 1.99600981]

gradient= [-8.93586828e-04 -3.00122402e-06 8.96588052e-04] w = [0.00626617 0.99772402 1.99600981] w\_new= [0.00625723 0.99772399 1.99601878]

gradient= [-8.92257889e-04 -2.99719134e-06 8.95255081e-04] w = [0.00625723 0.99772399 1.99601878] w\_new= [0.00624831 0.99772396 1.99602773]

gradient= [-8.90930931e-04 -2.99316401e-06 8.93924095e-04] w = [0.00624831 0.99772396 1.99602773] w\_new= [0.0062394 0.99772393 1.99603667]

gradient= [-8.89605951e-04 -2.98914203e-06 8.92595093e-04] w = [0.0062394 0.99772393 1.99603667] w\_new= [0.0062305 0.9977239 1.9960456]

gradient= [-8.88282946e-04 -2.98512538e-06 8.91268072e-04] w = [0.0062305 0.9977239 1.9960456] w\_new= [0.00622162 0.99772387 1.99605451]

gradient= [-8.86961914e-04 -2.98111407e-06 8.89943028e-04] w = [0.00622162 0.99772387 1.99605451] w\_new= [0.00621275 0.99772384 1.99606341]

gradient= [-8.85642850e-04 -2.97710808e-06 8.88619958e-04] w = [0.00621275 0.99772384 1.99606341] w\_new= [0.00620389 0.99772381 1.9960723 ]

gradient= [-8.84325752e-04 -2.97310740e-06 8.87298860e-04] w = [0.00620389 0.99772381 1.9960723 ] w\_new= [0.00619505 0.99772378 1.99608117]

gradient= [-8.83010618e-04 -2.96911204e-06 8.85979730e-04] w = [0.00619505 0.99772378 1.99608117] w\_new= [0.00618622 0.99772375 1.99609003]

gradient= [-8.81697444e-04 -2.96512198e-06 8.84662566e-04] w = [0.00618622 0.99772375 1.99609003] w\_new= [0.0061774 0.99772372 1.99609888]

gradient= [-8.80386228e-04 -2.96113721e-06 8.83347365e-04] w = [0.0061774 0.99772372 1.99609888] w\_new= [0.0061686 0.99772369 1.99610771]

gradient= [-8.79076966e-04 -2.95715773e-06 8.82034124e-04] w = [0.0061686 0.99772369 1.99610771] w\_new= [0.00615981 0.99772366 1.99611653]

gradient= [-8.77769655e-04 -2.95318354e-06 8.80722839e-04] w = [0.00615981 0.99772366 1.99611653] w\_new= [0.00615103 0.99772363 1.99612534]

gradient= [-8.76464293e-04 -2.94921462e-06 8.79413508e-04] w = [0.00615103 0.99772363 1.99612534] w\_new= [0.00614227 0.9977236 1.99613413]

gradient= [-8.75160877e-04 -2.94525096e-06 8.78106128e-04] w = [0.00614227 0.9977236 1.99613413] w\_new= [0.00613352 0.99772357 1.99614291]

gradient= [-8.73859404e-04 -2.94129257e-06 8.76800696e-04] w = [0.00613352 0.99772357 1.99614291] w\_new= [0.00612478 0.99772354 1.99615168]

gradient= [-8.72559870e-04 -2.93733944e-06 8.75497209e-04] w = [0.00612478 0.99772354 1.99615168] w\_new= [0.00611605 0.99772351 1.99616043]

gradient= [-8.71262273e-04 -2.93339155e-06 8.74195665e-04] w = [0.00611605 0.99772351 1.99616043] w\_new= [0.00610734 0.99772348 1.99616918]

gradient= [-8.69966611e-04 -2.92944890e-06 8.72896060e-04] w = [0.00610734 0.99772348 1.99616918] w\_new= [0.00609864 0.99772345 1.99617791]

gradient= [-8.68672879e-04 -2.92551148e-06 8.71598391e-04] w = [0.00609864 0.99772345 1.99617791] w\_new= [0.00608995 0.99772343 1.99618662]

gradient= [-8.67381076e-04 -2.92157929e-06 8.70302655e-04] w = [0.00608995 0.99772343 1.99618662] w\_new= [0.00608128 0.9977234 1.99619532]

gradient= [-8.66091198e-04 -2.91765232e-06 8.69008851e-04] w = [0.00608128 0.9977234 1.99619532] w\_new= [0.00607262 0.99772337 1.99620401]

gradient= [-8.64803243e-04 -2.91373057e-06 8.67716974e-04] w = [0.00607262 0.99772337 1.99620401] w\_new= [0.00606397 0.99772334 1.99621269]

gradient= [-8.63517207e-04 -2.90981402e-06 8.66427021e-04] w = [0.00606397 0.99772334 1.99621269] w\_new= [0.00605533 0.99772331 1.99622136]

gradient= [-8.62233089e-04 -2.90590267e-06 8.65138991e-04] w = [0.00605533 0.99772331 1.99622136] w\_new= [0.00604671 0.99772328 1.99623001]

gradient= [-8.60950884e-04 -2.90199651e-06 8.63852880e-04] w = [0.00604671 0.99772328 1.99623001] w\_new= [0.0060381 0.99772325 1.99623865]

gradient= [-8.59670589e-04 -2.89809554e-06 8.62568685e-04] w = [0.0060381 0.99772325 1.99623865] w\_new= [0.00602951 0.99772322 1.99624727]

gradient= [-8.58392204e-04 -2.89419974e-06 8.61286403e-04] w = [0.00602951 0.99772322 1.99624727] w\_new= [0.00602092 0.99772319 1.99625588]

gradient= [-8.57115723e-04 -2.89030912e-06 8.60006032e-04] w = [0.00602092 0.99772319 1.99625588] w\_new= [0.00601235 0.99772316 1.99626448]

gradient= [-8.55841145e-04 -2.88642366e-06 8.58727569e-04] w = [0.00601235 0.99772316 1.99626448] w\_new= [0.00600379 0.99772314 1.99627307]

gradient= [-8.54568466e-04 -2.88254337e-06 8.57451010e-04] w = [0.00600379 0.99772314 1.99627307] w\_new= [0.00599525 0.99772311 1.99628165]

gradient= [-8.53297685e-04 -2.87866822e-06 8.56176353e-04] w = [0.00599525 0.99772311 1.99628165] w\_new= [0.00598671 0.99772308 1.99629021]

gradient= [-8.52028797e-04 -2.87479822e-06 8.54903595e-04] w = [0.00598671 0.99772308 1.99629021] w\_new= [0.00597819 0.99772305 1.99629876]

gradient= [-8.50761800e-04 -2.87093336e-06 8.53632733e-04] w = [0.00597819 0.99772305 1.99629876] w\_new= [0.00596969 0.99772302 1.99630729]

gradient= [-8.49496691e-04 -2.86707362e-06 8.52363765e-04] w = [0.00596969 0.99772302 1.99630729] w\_new= [0.00596119 0.99772299 1.99631582]

gradient= [-8.48233468e-04 -2.86321902e-06 8.51096687e-04] w = [0.00596119 0.99772299 1.99631582] w\_new= [0.00595271 0.99772296 1.99632433]

gradient= [-8.46972128e-04 -2.85936953e-06 8.49831497e-04] w = [0.00595271 0.99772296 1.99632433] w\_new= [0.00594424 0.99772293 1.99633283]

gradient= [-8.45712667e-04 -2.85552515e-06 8.48568192e-04] w = [0.00594424 0.99772293 1.99633283] w\_new= [0.00593578 0.99772291 1.99634131]

gradient= [-8.44455083e-04 -2.85168588e-06 8.47306769e-04] w = [0.00593578 0.99772291 1.99634131] w\_new= [0.00592734 0.99772288 1.99634979]

gradient= [-8.43199374e-04 -2.84785170e-06 8.46047225e-04] w = [0.00592734 0.99772288 1.99634979] w\_new= [0.00591891 0.99772285 1.99635825]

gradient= [-8.41945535e-04 -2.84402262e-06 8.44789558e-04] w = [0.00591891 0.99772285 1.99635825] w\_new= [0.00591049 0.99772282 1.99636669]

gradient= [-8.40693566e-04 -2.84019862e-06 8.43533764e-04] w = [0.00591049 0.99772282 1.99636669] w\_new= [0.00590208 0.99772279 1.99637513]

gradient= [-8.39443462e-04 -2.83637969e-06 8.42279842e-04] w = [0.00590208 0.99772279 1.99637513] w\_new= [0.00589368 0.99772276 1.99638355]

gradient= [-8.38195221e-04 -2.83256584e-06 8.41027787e-04] w = [0.00589368 0.99772276 1.99638355] w\_new= [0.0058853 0.99772274 1.99639196]

gradient= [-8.36948840e-04 -2.82875706e-06 8.39777597e-04] w = [0.0058853 0.99772274 1.99639196] w\_new= [0.00587693 0.99772271 1.99640036]

gradient= [-8.35704317e-04 -2.82495333e-06 8.38529270e-04] w = [0.00587693 0.99772271 1.99640036] w\_new= [0.00586858 0.99772268 1.99640875]

gradient= [-8.34461648e-04 -2.82115465e-06 8.37282802e-04] w = [0.00586858 0.99772268 1.99640875] w\_new= [0.00586023 0.99772265 1.99641712]

gradient= [-8.33220831e-04 -2.81736102e-06 8.36038192e-04] w = [0.00586023 0.99772265 1.99641712] w\_new= [0.0058519 0.99772262 1.99642548]

gradient= [-8.31981863e-04 -2.81357242e-06 8.34795435e-04] w = [0.0058519 0.99772262 1.99642548] w\_new= [0.00584358 0.99772259 1.99643383]

gradient= [-8.30744741e-04 -2.80978886e-06 8.33554530e-04] w = [0.00584358 0.99772259 1.99643383] w\_new= [0.00583527 0.99772257 1.99644216]

gradient= [-8.29509463e-04 -2.80601032e-06 8.32315474e-04] w = [0.00583527 0.99772257 1.99644216] w\_new= [0.00582698 0.99772254 1.99645048]

gradient= [-8.28276026e-04 -2.80223680e-06 8.31078263e-04] w = [0.00582698 0.99772254 1.99645048] w\_new= [0.00581869 0.99772251 1.9964588 ]

gradient= [-8.27044427e-04 -2.79846829e-06 8.29842895e-04] w = [0.00581869 0.99772251 1.9964588 ] w\_new= [0.00581042 0.99772248 1.99646709]

gradient= [-8.25814663e-04 -2.79470478e-06 8.28609367e-04] w = [0.00581042 0.99772248 1.99646709] w\_new= [0.00580217 0.99772245 1.99647538]

gradient= [-8.24586731e-04 -2.79094627e-06 8.27377677e-04] w = [0.00580217 0.99772245 1.99647538] w\_new= [0.00579392 0.99772243 1.99648365]

gradient= [-8.23360629e-04 -2.78719276e-06 8.26147822e-04] w = [0.00579392 0.99772243 1.99648365] w\_new= [0.00578569 0.9977224 1.99649192]

gradient= [-8.22136355e-04 -2.78344423e-06 8.24919799e-04] w = [0.00578569 0.9977224 1.99649192] w\_new= [0.00577746 0.99772237 1.99650016]

gradient= [-8.20913904e-04 -2.77970068e-06 8.23693605e-04] w = [0.00577746 0.99772237 1.99650016] w\_new= [0.00576926 0.99772234 1.9965084 ]

gradient= [-8.19693276e-04 -2.77596210e-06 8.22469238e-04] w = [0.00576926 0.99772234 1.9965084 ] w\_new= [0.00576106 0.99772231 1.99651663]

gradient= [-8.18474466e-04 -2.77222849e-06 8.21246694e-04] w = [0.00576106 0.99772231 1.99651663] w\_new= [0.00575287 0.99772229 1.99652484]

gradient= [-8.17257472e-04 -2.76849983e-06 8.20025972e-04] w = [0.00575287 0.99772229 1.99652484] w\_new= [0.0057447 0.99772226 1.99653304]

gradient= [-8.16042291e-04 -2.76477613e-06 8.18807068e-04] w = [0.0057447 0.99772226 1.99653304] w\_new= [0.00573654 0.99772223 1.99654123]

gradient= [-8.14828922e-04 -2.76105737e-06 8.17589979e-04] w = [0.00573654 0.99772223 1.99654123] w\_new= [0.00572839 0.9977222 1.9965494 ]

gradient= [-8.13617360e-04 -2.75734356e-06 8.16374704e-04] w = [0.00572839 0.9977222 1.9965494 ] w\_new= [0.00572026 0.99772218 1.99655757]

gradient= [-8.12407604e-04 -2.75363467e-06 8.15161238e-04] w = [0.00572026 0.99772218 1.99655757] w\_new= [0.00571213 0.99772215 1.99656572]

gradient= [-8.11199650e-04 -2.74993072e-06 8.13949581e-04] w = [0.00571213 0.99772215 1.99656572] w\_new= [0.00570402 0.99772212 1.99657386]

gradient= [-8.09993496e-04 -2.74623168e-06 8.12739728e-04] w = [0.00570402 0.99772212 1.99657386] w\_new= [0.00569592 0.99772209 1.99658199]

gradient= [-8.08789139e-04 -2.74253756e-06 8.11531677e-04] w = [0.00569592 0.99772209 1.99658199] w\_new= [0.00568783 0.99772207 1.9965901 ]

gradient= [-8.07586577e-04 -2.73884834e-06 8.10325425e-04] w = [0.00568783 0.99772207 1.9965901 ] w\_new= [0.00567976 0.99772204 1.9965982 ]

gradient= [-8.06385806e-04 -2.73516403e-06 8.09120971e-04] w = [0.00567976 0.99772204 1.9965982 ] w\_new= [0.00567169 0.99772201 1.9966063 ]

gradient= [-8.05186825e-04 -2.73148460e-06 8.07918310e-04] w = [0.00567169 0.99772201 1.9966063 ] w\_new= [0.00566364 0.99772198 1.99661437]

gradient= [-8.03989630e-04 -2.72781007e-06 8.06717440e-04] w = [0.00566364 0.99772198 1.99661437] w\_new= [0.0056556 0.99772196 1.99662244]

gradient= [-8.02794219e-04 -2.72414042e-06 8.05518360e-04] w = [0.0056556 0.99772196 1.99662244] w\_new= [0.00564757 0.99772193 1.9966305 ]

gradient= [-8.01600589e-04 -2.72047564e-06 8.04321065e-04] w = [0.00564757 0.99772193 1.9966305 ] w\_new= [0.00563956 0.9977219 1.99663854]

gradient= [-8.00408738e-04 -2.71681574e-06 8.03125554e-04] w = [0.00563956 0.9977219 1.99663854] w\_new= [0.00563155 0.99772188 1.99664657]

gradient= [-7.99218662e-04 -2.71316069e-06 8.01931823e-04] w = [0.00563155 0.99772188 1.99664657] w\_new= [0.00562356 0.99772185 1.99665459]

gradient= [-7.9803036e-04 -2.7095105e-06 8.0073987e-04] w = [0.00562356 0.99772185 1.99665459] w\_new= [0.00561558 0.99772182 1.9966626 ]

gradient= [-7.96843828e-04 -2.70586516e-06 7.99549693e-04] w = [0.00561558 0.99772182 1.9966626 ] w\_new= [0.00560761 0.99772179 1.99667059]

gradient= [-7.95659063e-04 -2.70222466e-06 7.98361288e-04] w = [0.00560761 0.99772179 1.99667059] w\_new= [0.00559966 0.99772177 1.99667858]

gradient= [-7.94476064e-04 -2.69858900e-06 7.97174653e-04] w = [0.00559966 0.99772177 1.99667858] w\_new= [0.00559171 0.99772174 1.99668655]

gradient= [-7.93294828e-04 -2.69495817e-06 7.95989786e-04] w = [0.00559171 0.99772174 1.99668655] w\_new= [0.00558378 0.99772171 1.99669451]

gradient= [-7.92115351e-04 -2.69133217e-06 7.94806684e-04] w = [0.00558378 0.99772171 1.99669451] w\_new= [0.00557586 0.99772169 1.99670246]

gradient= [-7.90937632e-04 -2.68771098e-06 7.93625343e-04] w = [0.00557586 0.99772169 1.99670246] w\_new= [0.00556795 0.99772166 1.99671039]

gradient= [-7.89761668e-04 -2.68409460e-06 7.92445762e-04] w = [0.00556795 0.99772166 1.99671039] w\_new= [0.00556005 0.99772163 1.99671832]

gradient= [-7.88587455e-04 -2.68048303e-06 7.91267938e-04] w = [0.00556005 0.99772163 1.99671832] w\_new= [0.00555216 0.99772161 1.99672623]

gradient= [-7.87414992e-04 -2.67687626e-06 7.90091868e-04] w = [0.00555216 0.99772161 1.99672623] w\_new= [0.00554429 0.99772158 1.99673413]

gradient= [-7.86244275e-04 -2.67327428e-06 7.88917550e-04] w = [0.00554429 0.99772158 1.99673413] w\_new= [0.00553643 0.99772155 1.99674202]

gradient= [-7.85075303e-04 -2.66967708e-06 7.87744980e-04] w = [0.00553643 0.99772155 1.99674202] w\_new= [0.00552858 0.99772153 1.9967499 ]

gradient= [-7.83908072e-04 -2.66608467e-06 7.86574157e-04] w = [0.00552858 0.99772153 1.9967499 ] w\_new= [0.00552074 0.9977215 1.99675776]

gradient= [-7.82742581e-04 -2.66249702e-06 7.85405078e-04] w = [0.00552074 0.9977215 1.99675776] w\_new= [0.00551291 0.99772147 1.99676562]

gradient= [-7.81578825e-04 -2.65891415e-06 7.84237740e-04] w = [0.00551291 0.99772147 1.99676562] w\_new= [0.00550509 0.99772145 1.99677346]

gradient= [-7.80416804e-04 -2.65533604e-06 7.83072140e-04] w = [0.00550509 0.99772145 1.99677346] w\_new= [0.00549729 0.99772142 1.99678129]

gradient= [-7.79256513e-04 -2.65176268e-06 7.81908276e-04] w = [0.00549729 0.99772142 1.99678129] w\_new= [0.0054895 0.99772139 1.99678911]

gradient= [-7.78097952e-04 -2.64819407e-06 7.80746146e-04] w = [0.0054895 0.99772139 1.99678911] w\_new= [0.00548172 0.99772137 1.99679692]

gradient= [-7.76941116e-04 -2.64463020e-06 7.79585746e-04] w = [0.00548172 0.99772137 1.99679692] w\_new= [0.00547395 0.99772134 1.99680471]

gradient= [-7.75786003e-04 -2.64107107e-06 7.78427074e-04] w = [0.00547395 0.99772134 1.99680471] w\_new= [0.00546619 0.99772131 1.9968125 ]

gradient= [-7.74632612e-04 -2.63751667e-06 7.77270128e-04] w = [0.00546619 0.99772131 1.9968125 ] w\_new= [0.00545844 0.99772129 1.99682027]

gradient= [-7.73480939e-04 -2.63396699e-06 7.76114905e-04] w = [0.00545844 0.99772129 1.99682027] w\_new= [0.00545071 0.99772126 1.99682803]

gradient= [-7.72330981e-04 -2.63042203e-06 7.74961403e-04] w = [0.00545071 0.99772126 1.99682803] w\_new= [0.00544298 0.99772123 1.99683578]

gradient= [-7.71182736e-04 -2.62688179e-06 7.73809618e-04] w = [0.00544298 0.99772123 1.99683578] w\_new= [0.00543527 0.99772121 1.99684352]

gradient= [-7.70036202e-04 -2.62334624e-06 7.72659549e-04] w = [0.00543527 0.99772121 1.99684352] w\_new= [0.00542757 0.99772118 1.99685125]

gradient= [-7.68891377e-04 -2.61981540e-06 7.71511192e-04] w = [0.00542757 0.99772118 1.99685125] w\_new= [0.00541988 0.99772116 1.99685896]

gradient= [-7.67748256e-04 -2.61628925e-06 7.70364545e-04] w = [0.00541988 0.99772116 1.99685896] w\_new= [0.00541221 0.99772113 1.99686666]

gradient= [-7.66606838e-04 -2.61276778e-06 7.69219606e-04] w = [0.00541221 0.99772113 1.99686666] w\_new= [0.00540454 0.9977211 1.99687436]

gradient= [-7.65467121e-04 -2.60925099e-06 7.68076372e-04] w = [0.00540454 0.9977211 1.99687436] w\_new= [0.00539689 0.99772108 1.99688204]

gradient= [-7.64329102e-04 -2.60573888e-06 7.66934841e-04] w = [0.00539689 0.99772108 1.99688204] w\_new= [0.00538924 0.99772105 1.99688971]

gradient= [-7.63192778e-04 -2.60223144e-06 7.65795009e-04] w = [0.00538924 0.99772105 1.99688971] w\_new= [0.00538161 0.99772103 1.99689736]

gradient= [-7.62058146e-04 -2.59872866e-06 7.64656875e-04] w = [0.00538161 0.99772103 1.99689736] w\_new= [0.00537399 0.997721 1.99690501]

gradient= [-7.60925205e-04 -2.59523053e-06 7.63520436e-04] w = [0.00537399 0.997721 1.99690501] w\_new= [0.00536638 0.99772097 1.99691265]

gradient= [-7.59793952e-04 -2.59173706e-06 7.62385689e-04] w = [0.00536638 0.99772097 1.99691265] w\_new= [0.00535878 0.99772095 1.99692027]

gradient= [-7.58664383e-04 -2.58824823e-06 7.61252631e-04] w = [0.00535878 0.99772095 1.99692027] w\_new= [0.0053512 0.99772092 1.99692788]

gradient= [-7.57536497e-04 -2.58476403e-06 7.60121261e-04] w = [0.0053512 0.99772092 1.99692788] w\_new= [0.00534362 0.9977209 1.99693548]

gradient= [-7.56410292e-04 -2.58128447e-06 7.58991576e-04] w = [0.00534362 0.9977209 1.99693548] w\_new= [0.00533606 0.99772087 1.99694307]

gradient= [-7.55285764e-04 -2.57780953e-06 7.57863573e-04] w = [0.00533606 0.99772087 1.99694307] w\_new= [0.0053285 0.99772084 1.99695065]

gradient= [-7.54162911e-04 -2.57433921e-06 7.56737250e-04] w = [0.0053285 0.99772084 1.99695065] w\_new= [0.00532096 0.99772082 1.99695822]

gradient= [-7.53041730e-04 -2.57087351e-06 7.55612604e-04] w = [0.00532096 0.99772082 1.99695822] w\_new= [0.00531343 0.99772079 1.99696578]

gradient= [-7.51922220e-04 -2.56741241e-06 7.54489633e-04] w = [0.00531343 0.99772079 1.99696578] w\_new= [0.00530591 0.99772077 1.99697332]

gradient= [-7.50804378e-04 -2.56395591e-06 7.53368333e-04] w = [0.00530591 0.99772077 1.99697332] w\_new= [0.0052984 0.99772074 1.99698085]

gradient= [-7.49688200e-04 -2.56050401e-06 7.52248704e-04] w = [0.0052984 0.99772074 1.99698085] w\_new= [0.00529091 0.99772072 1.99698838]

gradient= [-7.48573685e-04 -2.55705670e-06 7.51130742e-04] w = [0.00529091 0.99772072 1.99698838] w\_new= [0.00528342 0.99772069 1.99699589]

gradient= [-7.47460830e-04 -2.55361397e-06 7.50014444e-04] w = [0.00528342 0.99772069 1.99699589] w\_new= [0.00527595 0.99772066 1.99700339]

gradient= [-7.46349633e-04 -2.55017582e-06 7.48899809e-04] w = [0.00527595 0.99772066 1.99700339] w\_new= [0.00526848 0.99772064 1.99701088]

gradient= [-7.45240091e-04 -2.54674224e-06 7.47786833e-04] w = [0.00526848 0.99772064 1.99701088] w\_new= [0.00526103 0.99772061 1.99701836]

gradient= [-7.44132202e-04 -2.54331322e-06 7.46675515e-04] w = [0.00526103 0.99772061 1.99701836] w\_new= [0.00525359 0.99772059 1.99702582]

gradient= [-7.43025962e-04 -2.53988876e-06 7.45565851e-04] w = [0.00525359 0.99772059 1.99702582] w\_new= [0.00524616 0.99772056 1.99703328]

gradient= [-7.41921371e-04 -2.53646885e-06 7.44457840e-04] w = [0.00524616 0.99772056 1.99703328] w\_new= [0.00523874 0.99772054 1.99704072]

gradient= [-7.40818425e-04 -2.53305350e-06 7.43351478e-04] w = [0.00523874 0.99772054 1.99704072] w\_new= [0.00523133 0.99772051 1.99704816]

gradient= [-7.39717122e-04 -2.52964268e-06 7.42246764e-04] w = [0.00523133 0.99772051 1.99704816] w\_new= [0.00522394 0.99772049 1.99705558]

gradient= [-7.38617459e-04 -2.52623640e-06 7.41143695e-04] w = [0.00522394 0.99772049 1.99705558] w\_new= [0.00521655 0.99772046 1.99706299]

gradient= [-7.37519434e-04 -2.52283464e-06 7.40042268e-04] w = [0.00521655 0.99772046 1.99706299] w\_new= [0.00520917 0.99772044 1.99707039]

gradient= [-7.36423044e-04 -2.51943741e-06 7.38942482e-04] w = [0.00520917 0.99772044 1.99707039] w\_new= [0.00520181 0.99772041 1.99707778]

gradient= [-7.35328288e-04 -2.51604470e-06 7.37844332e-04] w = [0.00520181 0.99772041 1.99707778] w\_new= [0.00519446 0.99772039 1.99708516]

gradient= [-7.34235162e-04 -2.51265650e-06 7.36747818e-04] w = [0.00519446 0.99772039 1.99708516] w\_new= [0.00518711 0.99772036 1.99709253]

gradient= [-7.33143664e-04 -2.50927280e-06 7.35652937e-04] w = [0.00518711 0.99772036 1.99709253] w\_new= [0.00517978 0.99772034 1.99709988]

gradient= [-7.32053792e-04 -2.50589361e-06 7.34559685e-04] w = [0.00517978 0.99772034 1.99709988] w\_new= [0.00517246 0.99772031 1.99710723]

gradient= [-7.30965543e-04 -2.50251890e-06 7.33468062e-04] w = [0.00517246 0.99772031 1.99710723] w\_new= [0.00516515 0.99772029 1.99711456]

gradient= [-7.29878915e-04 -2.49914869e-06 7.32378064e-04] w = [0.00516515 0.99772029 1.99711456] w\_new= [0.00515785 0.99772026 1.99712189]

gradient= [-7.28793906e-04 -2.49578295e-06 7.31289689e-04] w = [0.00515785 0.99772026 1.99712189] w\_new= [0.00515057 0.99772024 1.9971292 ]

gradient= [-7.27710512e-04 -2.49242169e-06 7.30202934e-04] w = [0.00515057 0.99772024 1.9971292 ] w\_new= [0.00514329 0.99772021 1.9971365 ]

gradient= [-7.26628732e-04 -2.48906490e-06 7.29117797e-04] w = [0.00514329 0.99772021 1.9971365 ] w\_new= [0.00513602 0.99772019 1.99714379]

gradient= [-7.25548563e-04 -2.48571258e-06 7.28034276e-04] w = [0.00513602 0.99772019 1.99714379] w\_new= [0.00512877 0.99772016 1.99715107]

gradient= [-7.24470003e-04 -2.48236471e-06 7.26952368e-04] w = [0.00512877 0.99772016 1.99715107] w\_new= [0.00512152 0.99772014 1.99715834]

gradient= [-7.23393050e-04 -2.47902130e-06 7.25872071e-04] w = [0.00512152 0.99772014 1.99715834] w\_new= [0.00511429 0.99772011 1.9971656 ]

gradient= [-7.22317700e-04 -2.47568233e-06 7.24793382e-04] w = [0.00511429 0.99772011 1.9971656 ] w\_new= [0.00510706 0.99772009 1.99717285]

gradient= [-7.21243952e-04 -2.47234780e-06 7.23716300e-04] w = [0.00510706 0.99772009 1.99717285] w\_new= [0.00509985 0.99772006 1.99718009]

gradient= [-7.20171803e-04 -2.46901771e-06 7.22640821e-04] w = [0.00509985 0.99772006 1.99718009] w\_new= [0.00509265 0.99772004 1.99718731]

gradient= [-7.19101251e-04 -2.46569205e-06 7.21566943e-04] w = [0.00509265 0.99772004 1.99718731] w\_new= [0.00508546 0.99772001 1.99719453]

gradient= [-7.18032293e-04 -2.46237081e-06 7.20494664e-04] w = [0.00508546 0.99772001 1.99719453] w\_new= [0.00507828 0.99771999 1.99720173]

gradient= [-7.16964927e-04 -2.45905398e-06 7.19423981e-04] w = [0.00507828 0.99771999 1.99720173] w\_new= [0.00507111 0.99771996 1.99720893]

gradient= [-7.15899151e-04 -2.45574157e-06 7.18354893e-04] w = [0.00507111 0.99771996 1.99720893] w\_new= [0.00506395 0.99771994 1.99721611]

gradient= [-7.14834962e-04 -2.45243357e-06 7.17287396e-04] w = [0.00506395 0.99771994 1.99721611] w\_new= [0.0050568 0.99771991 1.99722328]

gradient= [-7.13772358e-04 -2.44912996e-06 7.16221488e-04] w = [0.0050568 0.99771991 1.99722328] w\_new= [0.00504966 0.99771989 1.99723045]

gradient= [-7.12711337e-04 -2.44583075e-06 7.15157168e-04] w = [0.00504966 0.99771989 1.99723045] w\_new= [0.00504254 0.99771987 1.9972376 ]

gradient= [-7.11651895e-04 -2.44253593e-06 7.14094431e-04] w = [0.00504254 0.99771987 1.9972376 ] w\_new= [0.00503542 0.99771984 1.99724474]

gradient= [-7.10594032e-04 -2.43924548e-06 7.13033277e-04] w = [0.00503542 0.99771984 1.99724474] w\_new= [0.00502832 0.99771982 1.99725187]

gradient= [-7.09537744e-04 -2.43595942e-06 7.11973703e-04] w = [0.00502832 0.99771982 1.99725187] w\_new= [0.00502122 0.99771979 1.99725899]

gradient= [-7.08483029e-04 -2.43267773e-06 7.10915707e-04] w = [0.00502122 0.99771979 1.99725899] w\_new= [0.00501413 0.99771977 1.9972661 ]

gradient= [-7.07429884e-04 -2.42940040e-06 7.09859285e-04] w = [0.00501413 0.99771977 1.9972661 ] w\_new= [0.00500706 0.99771974 1.9972732 ]

gradient= [-7.06378308e-04 -2.42612743e-06 7.08804436e-04] w = [0.00500706 0.99771974 1.9972732 ] w\_new= [0.005 0.99771972 1.99728028]

gradient= [-7.05328299e-04 -2.42285882e-06 7.07751157e-04] w = [0.005 0.99771972 1.99728028] w\_new= [0.00499294 0.9977197 1.99728736]

gradient= [-7.04279852e-04 -2.41959455e-06 7.06699447e-04] w = [0.00499294 0.9977197 1.99728736] w\_new= [0.0049859 0.99771967 1.99729443]

gradient= [-7.03232967e-04 -2.41633463e-06 7.05649302e-04] w = [0.0049859 0.99771967 1.99729443] w\_new= [0.00497887 0.99771965 1.99730148]

gradient= [-7.02187642e-04 -2.41307904e-06 7.04600721e-04] w = [0.00497887 0.99771965 1.99730148] w\_new= [0.00497185 0.99771962 1.99730853]

gradient= [-7.01143872e-04 -2.40982779e-06 7.03553700e-04] w = [0.00497185 0.99771962 1.99730853] w\_new= [0.00496483 0.9977196 1.99731557]

gradient= [-7.00101658e-04 -2.40658086e-06 7.02508238e-04] w = [0.00496483 0.9977196 1.99731557] w\_new= [0.00495783 0.99771957 1.99732259]

gradient= [-6.99060995e-04 -2.40333824e-06 7.01464333e-04] w = [0.00495783 0.99771957 1.99732259] w\_new= [0.00495084 0.99771955 1.99732961]

gradient= [-6.98021882e-04 -2.40009995e-06 7.00421982e-04] w = [0.00495084 0.99771955 1.99732961] w\_new= [0.00494386 0.99771953 1.99733661]

gradient= [-6.96984316e-04 -2.39686596e-06 6.99381182e-04] w = [0.00494386 0.99771953 1.99733661] w\_new= [0.00493689 0.9977195 1.9973436 ]

gradient= [-6.95948295e-04 -2.39363627e-06 6.98341932e-04] w = [0.00493689 0.9977195 1.9973436 ] w\_new= [0.00492993 0.99771948 1.99735059]

gradient= [-6.94913818e-04 -2.39041088e-06 6.97304229e-04] w = [0.00492993 0.99771948 1.99735059] w\_new= [0.00492298 0.99771945 1.99735756]

gradient= [-6.93880880e-04 -2.38718979e-06 6.96268070e-04] w = [0.00492298 0.99771945 1.99735756] w\_new= [0.00491605 0.99771943 1.99736452]

gradient= [-6.92849481e-04 -2.38397298e-06 6.95233454e-04] w = [0.00491605 0.99771943 1.99736452] w\_new= [0.00490912 0.99771941 1.99737148]

gradient= [-6.91819618e-04 -2.38076044e-06 6.94200378e-04] w = [0.00490912 0.99771941 1.99737148] w\_new= [0.0049022 0.99771938 1.99737842]

gradient= [-6.90791288e-04 -2.37755219e-06 6.93168840e-04] w = [0.0049022 0.99771938 1.99737842] w\_new= [0.00489529 0.99771936 1.99738535]

gradient= [-6.89764490e-04 -2.37434820e-06 6.92138838e-04] w = [0.00489529 0.99771936 1.99738535] w\_new= [0.00488839 0.99771934 1.99739227]

gradient= [-6.88739220e-04 -2.37114847e-06 6.91110369e-04] w = [0.00488839 0.99771934 1.99739227] w\_new= [0.00488151 0.99771931 1.99739918]

gradient= [-6.87715478e-04 -2.36795300e-06 6.90083431e-04] w = [0.00488151 0.99771931 1.99739918] w\_new= [0.00487463 0.99771929 1.99740608]

gradient= [-6.86693259e-04 -2.36476179e-06 6.89058021e-04] w = [0.00487463 0.99771929 1.99740608] w\_new= [0.00486776 0.99771926 1.99741297]

gradient= [-6.85672563e-04 -2.36157482e-06 6.88034138e-04] w = [0.00486776 0.99771926 1.99741297] w\_new= [0.00486091 0.99771924 1.99741985]

gradient= [-6.84653387e-04 -2.35839209e-06 6.87011779e-04] w = [0.00486091 0.99771924 1.99741985] w\_new= [0.00485406 0.99771922 1.99742672]

gradient= [-6.83635728e-04 -2.35521360e-06 6.85990942e-04] w = [0.00485406 0.99771922 1.99742672] w\_new= [0.00484722 0.99771919 1.99743358]

gradient= [-6.82619585e-04 -2.35203933e-06 6.84971624e-04] w = [0.00484722 0.99771919 1.99743358] w\_new= [0.0048404 0.99771917 1.99744043]

gradient= [-6.81604955e-04 -2.34886929e-06 6.83953824e-04] w = [0.0048404 0.99771917 1.99744043] w\_new= [0.00483358 0.99771915 1.99744727]

gradient= [-6.80591835e-04 -2.34570347e-06 6.82937539e-04] w = [0.00483358 0.99771915 1.99744727] w\_new= [0.00482677 0.99771912 1.9974541 ]

gradient= [-6.79580225e-04 -2.34254187e-06 6.81922766e-04] w = [0.00482677 0.99771912 1.9974541 ] w\_new= [0.00481998 0.9977191 1.99746092]

gradient= [-6.78570120e-04 -2.33938447e-06 6.80909504e-04] w = [0.00481998 0.9977191 1.99746092] w\_new= [0.00481319 0.99771908 1.99746773]

gradient= [-6.77561519e-04 -2.33623127e-06 6.79897751e-04] w = [0.00481319 0.99771908 1.99746773] w\_new= [0.00480642 0.99771905 1.99747453]

gradient= [-6.76554421e-04 -2.33308227e-06 6.78887503e-04] w = [0.00480642 0.99771905 1.99747453] w\_new= [0.00479965 0.99771903 1.99748132]

gradient= [-6.75548822e-04 -2.32993745e-06 6.77878759e-04] w = [0.00479965 0.99771903 1.99748132] w\_new= [0.0047929 0.99771901 1.9974881 ]

gradient= [-6.74544720e-04 -2.32679683e-06 6.76871517e-04] w = [0.0047929 0.99771901 1.9974881 ] w\_new= [0.00478615 0.99771898 1.99749487]

gradient= [-6.73542113e-04 -2.32366038e-06 6.75865773e-04] w = [0.00478615 0.99771898 1.99749487] w\_new= [0.00477942 0.99771896 1.99750162]

gradient= [-6.72540999e-04 -2.32052811e-06 6.74861527e-04] w = [0.00477942 0.99771896 1.99750162] w\_new= [0.00477269 0.99771894 1.99750837]

gradient= [-6.71541376e-04 -2.31740001e-06 6.73858776e-04] w = [0.00477269 0.99771894 1.99750837] w\_new= [0.00476597 0.99771891 1.99751511]

gradient= [-6.70543241e-04 -2.31427607e-06 6.72857517e-04] w = [0.00476597 0.99771891 1.99751511] w\_new= [0.00475927 0.99771889 1.99752184]

gradient= [-6.69546592e-04 -2.31115629e-06 6.71857749e-04] w = [0.00475927 0.99771889 1.99752184] w\_new= [0.00475257 0.99771887 1.99752856]

gradient= [-6.68551428e-04 -2.30804066e-06 6.70859468e-04] w = [0.00475257 0.99771887 1.99752856] w\_new= [0.00474589 0.99771884 1.99753527]

gradient= [-6.67557744e-04 -2.30492918e-06 6.69862674e-04] w = [0.00474589 0.99771884 1.99753527] w\_new= [0.00473921 0.99771882 1.99754197]

gradient= [-6.66565541e-04 -2.30182184e-06 6.68867363e-04] w = [0.00473921 0.99771882 1.99754197] w\_new= [0.00473255 0.9977188 1.99754865]

gradient= [-6.65574815e-04 -2.29871864e-06 6.67873533e-04] w = [0.00473255 0.9977188 1.99754865] w\_new= [0.00472589 0.99771878 1.99755533]

gradient= [-6.64585564e-04 -2.29561957e-06 6.66881183e-04] w = [0.00472589 0.99771878 1.99755533] w\_new= [0.00471925 0.99771875 1.997562 ]

gradient= [-6.63597785e-04 -2.29252462e-06 6.65890310e-04] w = [0.00471925 0.99771875 1.997562 ] w\_new= [0.00471261 0.99771873 1.99756866]

gradient= [-6.62611478e-04 -2.28943379e-06 6.64900912e-04] w = [0.00471261 0.99771873 1.99756866] w\_new= [0.00470598 0.99771871 1.99757531]

gradient= [-6.61626639e-04 -2.28634708e-06 6.63912986e-04] w = [0.00470598 0.99771871 1.99757531] w\_new= [0.00469937 0.99771868 1.99758195]

gradient= [-6.60643266e-04 -2.28326447e-06 6.62926531e-04] w = [0.00469937 0.99771868 1.99758195] w\_new= [0.00469276 0.99771866 1.99758858]

gradient= [-6.59661357e-04 -2.28018597e-06 6.61941543e-04] w = [0.00469276 0.99771866 1.99758858] w\_new= [0.00468616 0.99771864 1.9975952 ]

gradient= [-6.58680911e-04 -2.27711157e-06 6.60958022e-04] w = [0.00468616 0.99771864 1.9975952 ] w\_new= [0.00467958 0.99771862 1.99760181]

gradient= [-6.57701924e-04 -2.27404126e-06 6.59975965e-04] w = [0.00467958 0.99771862 1.99760181] w\_new= [0.004673 0.99771859 1.99760841]

gradient= [-6.56724394e-04 -2.27097504e-06 6.58995369e-04] w = [0.004673 0.99771859 1.99760841] w\_new= [0.00466643 0.99771857 1.997615 ]

gradient= [-6.55748320e-04 -2.26791290e-06 6.58016233e-04] w = [0.00466643 0.99771857 1.997615 ] w\_new= [0.00465988 0.99771855 1.99762158]

gradient= [-6.54773699e-04 -2.26485484e-06 6.57038554e-04] w = [0.00465988 0.99771855 1.99762158] w\_new= [0.00465333 0.99771852 1.99762815]

gradient= [-6.53800530e-04 -2.26180085e-06 6.56062331e-04] w = [0.00465333 0.99771852 1.99762815] w\_new= [0.00464679 0.9977185 1.99763471]

gradient= [-6.52828809e-04 -2.25875092e-06 6.55087560e-04] w = [0.00464679 0.9977185 1.99763471] w\_new= [0.00464026 0.99771848 1.99764126]

gradient= [-6.51858535e-04 -2.25570506e-06 6.54114240e-04] w = [0.00464026 0.99771848 1.99764126] w\_new= [0.00463374 0.99771846 1.9976478 ]

gradient= [-6.50889705e-04 -2.25266325e-06 6.53142368e-04] w = [0.00463374 0.99771846 1.9976478 ] w\_new= [0.00462723 0.99771843 1.99765433]

gradient= [-6.49922318e-04 -2.24962549e-06 6.52171943e-04] w = [0.00462723 0.99771843 1.99765433] w\_new= [0.00462073 0.99771841 1.99766085]

gradient= [-6.48956371e-04 -2.24659177e-06 6.51202962e-04] w = [0.00462073 0.99771841 1.99766085] w\_new= [0.00461425 0.99771839 1.99766737]

gradient= [-6.47991862e-04 -2.24356210e-06 6.50235424e-04] w = [0.00461425 0.99771839 1.99766737] w\_new= [0.00460777 0.99771837 1.99767387]

gradient= [-6.47028789e-04 -2.24053645e-06 6.49269325e-04] w = [0.00460777 0.99771837 1.99767387] w\_new= [0.00460129 0.99771834 1.99768036]

gradient= [-6.46067149e-04 -2.23751484e-06 6.48304664e-04] w = [0.00460129 0.99771834 1.99768036] w\_new= [0.00459483 0.99771832 1.99768684]

gradient= [-6.45106942e-04 -2.23449725e-06 6.47341439e-04] w = [0.00459483 0.99771832 1.99768684] w\_new= [0.00458838 0.9977183 1.99769332]

gradient= [-6.44148164e-04 -2.23148368e-06 6.46379647e-04] w = [0.00458838 0.9977183 1.99769332] w\_new= [0.00458194 0.99771828 1.99769978]

gradient= [-6.43190813e-04 -2.22847412e-06 6.45419287e-04] w = [0.00458194 0.99771828 1.99769978] w\_new= [0.00457551 0.99771825 1.99770624]

gradient= [-6.42234887e-04 -2.22546857e-06 6.44460356e-04] w = [0.00457551 0.99771825 1.99770624] w\_new= [0.00456909 0.99771823 1.99771268]

gradient= [-6.41280385e-04 -2.22246702e-06 6.43502852e-04] w = [0.00456909 0.99771823 1.99771268] w\_new= [0.00456267 0.99771821 1.99771911]

gradient= [-6.40327304e-04 -2.21946947e-06 6.42546773e-04] w = [0.00456267 0.99771821 1.99771911] w\_new= [0.00455627 0.99771819 1.99772554]

gradient= [-6.39375641e-04 -2.21647591e-06 6.41592117e-04] w = [0.00455627 0.99771819 1.99772554] w\_new= [0.00454988 0.99771817 1.99773196]

gradient= [-6.38425395e-04 -2.21348634e-06 6.40638882e-04] w = [0.00454988 0.99771817 1.99773196] w\_new= [0.00454349 0.99771814 1.99773836]

gradient= [-6.37476564e-04 -2.21050075e-06 6.39687065e-04] w = [0.00454349 0.99771814 1.99773836] w\_new= [0.00453712 0.99771812 1.99774476]

gradient= [-6.36529145e-04 -2.20751913e-06 6.38736664e-04] w = [0.00453712 0.99771812 1.99774476] w\_new= [0.00453075 0.9977181 1.99775115]

gradient= [-6.35583137e-04 -2.20454149e-06 6.37787679e-04] w = [0.00453075 0.9977181 1.99775115] w\_new= [0.0045244 0.99771808 1.99775752]

gradient= [-6.34638537e-04 -2.20156781e-06 6.36840105e-04] w = [0.0045244 0.99771808 1.99775752] w\_new= [0.00451805 0.99771806 1.99776389]

gradient= [-6.33695343e-04 -2.19859809e-06 6.35893941e-04] w = [0.00451805 0.99771806 1.99776389] w\_new= [0.00451171 0.99771803 1.99777025]

gradient= [-6.32753554e-04 -2.19563233e-06 6.34949186e-04] w = [0.00451171 0.99771803 1.99777025] w\_new= [0.00450539 0.99771801 1.9977766 ]

gradient= [-6.31813166e-04 -2.19267051e-06 6.34005837e-04] w = [0.00450539 0.99771801 1.9977766 ] w\_new= [0.00449907 0.99771799 1.99778294]

gradient= [-6.30874178e-04 -2.18971265e-06 6.33063891e-04] w = [0.00449907 0.99771799 1.99778294] w\_new= [0.00449276 0.99771797 1.99778927]

gradient= [-6.29936588e-04 -2.18675872e-06 6.32123347e-04] w = [0.00449276 0.99771797 1.99778927] w\_new= [0.00448646 0.99771795 1.99779559]

gradient= [-6.29000394e-04 -2.18380872e-06 6.31184203e-04] w = [0.00448646 0.99771795 1.99779559] w\_new= [0.00448017 0.99771792 1.99780191]

gradient= [-6.28065593e-04 -2.18086266e-06 6.30246456e-04] w = [0.00448017 0.99771792 1.99780191] w\_new= [0.00447389 0.9977179 1.99780821]

gradient= [-6.27132184e-04 -2.17792052e-06 6.29310105e-04] w = [0.00447389 0.9977179 1.99780821] w\_new= [0.00446762 0.99771788 1.9978145 ]

gradient= [-6.26200165e-04 -2.17498229e-06 6.28375147e-04] w = [0.00446762 0.99771788 1.9978145 ] w\_new= [0.00446136 0.99771786 1.99782078]

gradient= [-6.25269533e-04 -2.17204798e-06 6.27441581e-04] w = [0.00446136 0.99771786 1.99782078] w\_new= [0.0044551 0.99771784 1.99782706]

gradient= [-6.24340286e-04 -2.16911758e-06 6.26509403e-04] w = [0.0044551 0.99771784 1.99782706] w\_new= [0.00444886 0.99771782 1.99783332]

gradient= [-6.23412422e-04 -2.16619109e-06 6.25578613e-04] w = [0.00444886 0.99771782 1.99783332] w\_new= [0.00444263 0.99771779 1.99783958]

gradient= [-6.22485940e-04 -2.16326849e-06 6.24649208e-04] w = [0.00444263 0.99771779 1.99783958] w\_new= [0.0044364 0.99771777 1.99784583]

gradient= [-6.21560837e-04 -2.16034979e-06 6.23721186e-04] w = [0.0044364 0.99771777 1.99784583] w\_new= [0.00443019 0.99771775 1.99785206]

gradient= [-6.20637111e-04 -2.15743497e-06 6.22794546e-04] w = [0.00443019 0.99771775 1.99785206] w\_new= [0.00442398 0.99771773 1.99785829]

gradient= [-6.19714759e-04 -2.15452404e-06 6.21869283e-04] w = [0.00442398 0.99771773 1.99785829] w\_new= [0.00441778 0.99771771 1.99786451]

gradient= [-6.18793781e-04 -2.15161698e-06 6.20945398e-04] w = [0.00441778 0.99771771 1.99786451] w\_new= [0.00441159 0.99771769 1.99787072]

gradient= [-6.17874174e-04 -2.14871380e-06 6.20022888e-04] w = [0.00441159 0.99771769 1.99787072] w\_new= [0.00440542 0.99771766 1.99787692]

gradient= [-6.16955936e-04 -2.14581448e-06 6.19101750e-04] w = [0.00440542 0.99771766 1.99787692] w\_new= [0.00439925 0.99771764 1.99788311]

gradient= [-6.16039064e-04 -2.14291903e-06 6.18181983e-04] w = [0.00439925 0.99771764 1.99788311] w\_new= [0.00439309 0.99771762 1.99788929]

gradient= [-6.15123557e-04 -2.14002743e-06 6.17263585e-04] w = [0.00439309 0.99771762 1.99788929] w\_new= [0.00438693 0.9977176 1.99789547]

gradient= [-6.14209413e-04 -2.13713969e-06 6.16346553e-04] w = [0.00438693 0.9977176 1.99789547] w\_new= [0.00438079 0.99771758 1.99790163]

gradient= [-6.13296630e-04 -2.13425580e-06 6.15430886e-04] w = [0.00438079 0.99771758 1.99790163] w\_new= [0.00437466 0.99771756 1.99790778]

gradient= [-6.12385205e-04 -2.13137574e-06 6.14516581e-04] w = [0.00437466 0.99771756 1.99790778] w\_new= [0.00436854 0.99771754 1.99791393]

gradient= [-6.11475137e-04 -2.12849953e-06 6.13603637e-04] w = [0.00436854 0.99771754 1.99791393] w\_new= [0.00436242 0.99771751 1.99792006]

gradient= [-6.10566424e-04 -2.12562714e-06 6.12692051e-04] w = [0.00436242 0.99771751 1.99792006] w\_new= [0.00435631 0.99771749 1.99792619]

gradient= [-6.09659063e-04 -2.12275859e-06 6.11781822e-04] w = [0.00435631 0.99771749 1.99792619] w\_new= [0.00435022 0.99771747 1.99793231]

gradient= [-6.08753053e-04 -2.11989385e-06 6.10872947e-04] w = [0.00435022 0.99771747 1.99793231] w\_new= [0.00434413 0.99771745 1.99793842]

gradient= [-6.07848391e-04 -2.11703294e-06 6.09965424e-04] w = [0.00434413 0.99771745 1.99793842] w\_new= [0.00433805 0.99771743 1.99794452]

gradient= [-6.06945076e-04 -2.11417583e-06 6.09059252e-04] w = [0.00433805 0.99771743 1.99794452] w\_new= [0.00433198 0.99771741 1.99795061]

gradient= [-6.06043106e-04 -2.11132253e-06 6.08154428e-04] w = [0.00433198 0.99771741 1.99795061] w\_new= [0.00432592 0.99771739 1.99795669]

gradient= [-6.05142478e-04 -2.10847304e-06 6.07250951e-04] w = [0.00432592 0.99771739 1.99795669] w\_new= [0.00431987 0.99771737 1.99796276]

gradient= [-6.04243190e-04 -2.10562734e-06 6.06348818e-04] w = [0.00431987 0.99771737 1.99796276] w\_new= [0.00431383 0.99771735 1.99796883]

gradient= [-6.03345241e-04 -2.10278543e-06 6.05448027e-04] w = [0.00431383 0.99771735 1.99796883] w\_new= [0.0043078 0.99771732 1.99797488]

gradient= [-6.02448629e-04 -2.09994731e-06 6.04548576e-04] w = [0.0043078 0.99771732 1.99797488] w\_new= [0.00430177 0.9977173 1.99798093]

gradient= [-6.01553351e-04 -2.09711297e-06 6.03650464e-04] w = [0.00430177 0.9977173 1.99798093] w\_new= [0.00429576 0.99771728 1.99798696]

gradient= [-6.00659406e-04 -2.09428241e-06 6.02753688e-04] w = [0.00429576 0.99771728 1.99798696] w\_new= [0.00428975 0.99771726 1.99799299]

gradient= [-5.99766791e-04 -2.09145563e-06 6.01858247e-04] w = [0.00428975 0.99771726 1.99799299] w\_new= [0.00428375 0.99771724 1.99799901]

gradient= [-5.98875505e-04 -2.08863261e-06 6.00964137e-04] w = [0.00428375 0.99771724 1.99799901] w\_new= [0.00427776 0.99771722 1.99800502]

gradient= [-5.97985545e-04 -2.08581335e-06 6.00071358e-04] w = [0.00427776 0.99771722 1.99800502] w\_new= [0.00427178 0.9977172 1.99801102]

gradient= [-5.97096910e-04 -2.08299785e-06 5.99179908e-04] w = [0.00427178 0.9977172 1.99801102] w\_new= [0.00426581 0.99771718 1.99801701]

gradient= [-5.96209598e-04 -2.08018610e-06 5.98289784e-04] w = [0.00426581 0.99771718 1.99801701] w\_new= [0.00425985 0.99771716 1.99802299]

gradient= [-5.95323606e-04 -2.07737809e-06 5.97400984e-04] w = [0.00425985 0.99771716 1.99802299] w\_new= [0.0042539 0.99771714 1.99802897]

gradient= [-5.94438933e-04 -2.07457384e-06 5.96513506e-04] w = [0.0042539 0.99771714 1.99802897] w\_new= [0.00424795 0.99771712 1.99803493]

gradient= [-5.93555576e-04 -2.07177331e-06 5.95627350e-04] w = [0.00424795 0.99771712 1.99803493] w\_new= [0.00424202 0.9977171 1.99804089]

gradient= [-5.92673535e-04 -2.06897652e-06 5.94742511e-04] w = [0.00424202 0.9977171 1.99804089] w\_new= [0.00423609 0.99771707 1.99804684]

gradient= [-5.91792806e-04 -2.06618346e-06 5.93858989e-04] w = [0.00423609 0.99771707 1.99804684] w\_new= [0.00423017 0.99771705 1.99805277]

gradient= [-5.90913388e-04 -2.06339413e-06 5.92976782e-04] w = [0.00423017 0.99771705 1.99805277] w\_new= [0.00422426 0.99771703 1.9980587 ]

gradient= [-5.90035278e-04 -2.06060850e-06 5.92095887e-04] w = [0.00422426 0.99771703 1.9980587 ] w\_new= [0.00421836 0.99771701 1.99806463]

gradient= [-5.89158476e-04 -2.05782660e-06 5.91216303e-04] w = [0.00421836 0.99771701 1.99806463] w\_new= [0.00421247 0.99771699 1.99807054]

gradient= [-5.88282979e-04 -2.05504840e-06 5.90338027e-04] w = [0.00421247 0.99771699 1.99807054] w\_new= [0.00420659 0.99771697 1.99807644]

gradient= [-5.87408785e-04 -2.05227390e-06 5.89461058e-04] w = [0.00420659 0.99771697 1.99807644] w\_new= [0.00420071 0.99771695 1.99808234]

gradient= [-5.86535891e-04 -2.04950310e-06 5.88585394e-04] w = [0.00420071 0.99771695 1.99808234] w\_new= [0.00419485 0.99771693 1.99808822]

gradient= [-5.85664297e-04 -2.04673600e-06 5.87711033e-04] w = [0.00419485 0.99771693 1.99808822] w\_new= [0.00418899 0.99771691 1.9980941 ]

gradient= [-5.84794000e-04 -2.04397258e-06 5.86837973e-04] w = [0.00418899 0.99771691 1.9980941 ] w\_new= [0.00418314 0.99771689 1.99809997]

gradient= [-5.83924998e-04 -2.04121285e-06 5.85966211e-04] w = [0.00418314 0.99771689 1.99809997] w\_new= [0.0041773 0.99771687 1.99810583]

gradient= [-5.83057290e-04 -2.03845680e-06 5.85095747e-04] w = [0.0041773 0.99771687 1.99810583] w\_new= [0.00417147 0.99771685 1.99811168]

gradient= [-5.82190873e-04 -2.03570442e-06 5.84226577e-04] w = [0.00417147 0.99771685 1.99811168] w\_new= [0.00416565 0.99771683 1.99811752]

gradient= [-5.81325745e-04 -2.03295571e-06 5.83358701e-04] w = [0.00416565 0.99771683 1.99811752] w\_new= [0.00415984 0.99771681 1.99812335]

gradient= [-5.80461905e-04 -2.03021067e-06 5.82492116e-04] w = [0.00415984 0.99771681 1.99812335] w\_new= [0.00415403 0.99771679 1.99812918]

gradient= [-5.79599351e-04 -2.02746928e-06 5.81626820e-04] w = [0.00415403 0.99771679 1.99812918] w\_new= [0.00414824 0.99771677 1.99813499]

gradient= [-5.78738080e-04 -2.02473155e-06 5.80762812e-04] w = [0.00414824 0.99771677 1.99813499] w\_new= [0.00414245 0.99771675 1.9981408 ]

gradient= [-5.77878091e-04 -2.02199747e-06 5.79900089e-04] w = [0.00414245 0.99771675 1.9981408 ] w\_new= [0.00413667 0.99771673 1.9981466 ]

gradient= [-5.77019382e-04 -2.01926704e-06 5.79038649e-04] w = [0.00413667 0.99771673 1.9981466 ] w\_new= [0.0041309 0.99771671 1.99815239]

gradient= [-5.76161951e-04 -2.01654024e-06 5.78178491e-04] w = [0.0041309 0.99771671 1.99815239] w\_new= [0.00412514 0.99771669 1.99815817]

gradient= [-5.75305796e-04 -2.01381708e-06 5.77319613e-04] w = [0.00412514 0.99771669 1.99815817] w\_new= [0.00411939 0.99771667 1.99816395]

gradient= [-5.74450915e-04 -2.01109755e-06 5.76462012e-04] w = [0.00411939 0.99771667 1.99816395] w\_new= [0.00411364 0.99771665 1.99816971]

gradient= [-5.73597306e-04 -2.00838165e-06 5.75605688e-04] w = [0.00411364 0.99771665 1.99816971] w\_new= [0.00410791 0.99771663 1.99817547]

gradient= [-5.72744968e-04 -2.00566937e-06 5.74750637e-04] w = [0.00410791 0.99771663 1.99817547] w\_new= [0.00410218 0.99771661 1.99818121]

gradient= [-5.71893898e-04 -2.00296071e-06 5.73896858e-04] w = [0.00410218 0.99771661 1.99818121] w\_new= [0.00409646 0.99771659 1.99818695]

gradient= [-5.71044094e-04 -2.00025565e-06 5.73044350e-04] w = [0.00409646 0.99771659 1.99818695] w\_new= [0.00409075 0.99771657 1.99819268]

gradient= [-5.70195556e-04 -1.99755421e-06 5.72193110e-04] w = [0.00409075 0.99771657 1.99819268] w\_new= [0.00408505 0.99771655 1.99819841]

gradient= [-5.69348280e-04 -1.99485637e-06 5.71343136e-04] w = [0.00408505 0.99771655 1.99819841] w\_new= [0.00407935 0.99771653 1.99820412]

gradient= [-5.68502264e-04 -1.99216212e-06 5.70494427e-04] w = [0.00407935 0.99771653 1.99820412] w\_new= [0.00407367 0.99771651 1.99820982]

gradient= [-5.67657508e-04 -1.98947147e-06 5.69646980e-04] w = [0.00407367 0.99771651 1.99820982] w\_new= [0.00406799 0.99771649 1.99821552]

gradient= [-5.66814009e-04 -1.98678440e-06 5.68800794e-04] w = [0.00406799 0.99771649 1.99821552] w\_new= [0.00406232 0.99771647 1.99822121]

gradient= [-5.65971765e-04 -1.98410092e-06 5.67955866e-04] w = [0.00406232 0.99771647 1.99822121] w\_new= [0.00405666 0.99771645 1.99822689]

gradient= [-5.65130775e-04 -1.98142102e-06 5.67112196e-04] w = [0.00405666 0.99771645 1.99822689] w\_new= [0.00405101 0.99771643 1.99823256]

gradient= [-5.64291036e-04 -1.97874469e-06 5.66269781e-04] w = [0.00405101 0.99771643 1.99823256] w\_new= [0.00404537 0.99771641 1.99823822]

gradient= [-5.63452547e-04 -1.97607193e-06 5.65428619e-04] w = [0.00404537 0.99771641 1.99823822] w\_new= [0.00403974 0.99771639 1.99824388]

gradient= [-5.62615305e-04 -1.97340273e-06 5.64588708e-04] w = [0.00403974 0.99771639 1.99824388] w\_new= [0.00403411 0.99771637 1.99824952]

gradient= [-5.61779310e-04 -1.97073710e-06 5.63750047e-04] w = [0.00403411 0.99771637 1.99824952] w\_new= [0.00402849 0.99771635 1.99825516]

gradient= [-5.60944558e-04 -1.96807502e-06 5.62912633e-04] w = [0.00402849 0.99771635 1.99825516] w\_new= [0.00402288 0.99771633 1.99826079]

gradient= [-5.60111049e-04 -1.96541649e-06 5.62076465e-04] w = [0.00402288 0.99771633 1.99826079] w\_new= [0.00401728 0.99771631 1.99826641]

gradient= [-5.59278780e-04 -1.96276150e-06 5.61241541e-04] w = [0.00401728 0.99771631 1.99826641] w\_new= [0.00401169 0.99771629 1.99827202]

gradient= [-5.58447749e-04 -1.96011006e-06 5.60407859e-04] w = [0.00401169 0.99771629 1.99827202] w\_new= [0.0040061 0.99771627 1.99827763]

gradient= [-5.57617955e-04 -1.95746215e-06 5.59575418e-04] w = [0.0040061 0.99771627 1.99827763] w\_new= [0.00400053 0.99771625 1.99828322]

gradient= [-5.56789396e-04 -1.95481778e-06 5.58744214e-04] w = [0.00400053 0.99771625 1.99828322] w\_new= [0.00399496 0.99771623 1.99828881]

gradient= [-5.55962070e-04 -1.95217693e-06 5.57914247e-04] w = [0.00399496 0.99771623 1.99828881] w\_new= [0.0039894 0.99771621 1.99829439]

gradient= [-5.55135975e-04 -1.94953960e-06 5.57085515e-04] w = [0.0039894 0.99771621 1.99829439] w\_new= [0.00398385 0.99771619 1.99829996]

gradient= [-5.54311109e-04 -1.94690580e-06 5.56258015e-04] w = [0.00398385 0.99771619 1.99829996] w\_new= [0.00397831 0.99771617 1.99830552]

gradient= [-5.53487471e-04 -1.94427550e-06 5.55431747e-04] w = [0.00397831 0.99771617 1.99830552] w\_new= [0.00397277 0.99771615 1.99831108]

gradient= [-5.52665058e-04 -1.94164872e-06 5.54606707e-04] w = [0.00397277 0.99771615 1.99831108] w\_new= [0.00396724 0.99771613 1.99831662]

gradient= [-5.51843869e-04 -1.93902543e-06 5.53782895e-04] w = [0.00396724 0.99771613 1.99831662] w\_new= [0.00396173 0.99771611 1.99832216]

gradient= [-5.51023902e-04 -1.93640565e-06 5.52960308e-04] w = [0.00396173 0.99771611 1.99832216] w\_new= [0.00395622 0.99771609 1.99832769]

gradient= [-5.50205155e-04 -1.93378936e-06 5.52138945e-04] w = [0.00395622 0.99771609 1.99832769] w\_new= [0.00395071 0.99771607 1.99833321]

gradient= [-5.49387627e-04 -1.93117657e-06 5.51318803e-04] w = [0.00395071 0.99771607 1.99833321] w\_new= [0.00394522 0.99771606 1.99833872]

gradient= [-5.48571315e-04 -1.92856725e-06 5.50499882e-04] w = [0.00394522 0.99771606 1.99833872] w\_new= [0.00393973 0.99771604 1.99834423]

gradient= [-5.47756217e-04 -1.92596142e-06 5.49682179e-04] w = [0.00393973 0.99771604 1.99834423] w\_new= [0.00393426 0.99771602 1.99834973]

gradient= [-5.46942333e-04 -1.92335907e-06 5.48865692e-04] w = [0.00393426 0.99771602 1.99834973] w\_new= [0.00392879 0.997716 1.99835522]

gradient= [-5.46129659e-04 -1.92076019e-06 5.48050419e-04] w = [0.00392879 0.997716 1.99835522] w\_new= [0.00392333 0.99771598 1.9983607 ]

gradient= [-5.45318195e-04 -1.91816477e-06 5.47236360e-04] w = [0.00392333 0.99771598 1.9983607 ] w\_new= [0.00391787 0.99771596 1.99836617]

gradient= [-5.44507938e-04 -1.91557282e-06 5.46423511e-04] w = [0.00391787 0.99771596 1.99836617] w\_new= [0.00391243 0.99771594 1.99837163]

gradient= [-5.43698887e-04 -1.91298432e-06 5.45611871e-04] w = [0.00391243 0.99771594 1.99837163] w\_new= [0.00390699 0.99771592 1.99837709]

gradient= [-5.42891040e-04 -1.91039928e-06 5.44801439e-04] w = [0.00390699 0.99771592 1.99837709] w\_new= [0.00390156 0.9977159 1.99838254]

gradient= [-5.42084394e-04 -1.90781769e-06 5.43992212e-04] w = [0.00390156 0.9977159 1.99838254] w\_new= [0.00389614 0.99771588 1.99838798]

gradient= [-5.41278949e-04 -1.90523954e-06 5.43184189e-04] w = [0.00389614 0.99771588 1.99838798] w\_new= [0.00389073 0.99771586 1.99839341]

gradient= [-5.40474702e-04 -1.90266484e-06 5.42377367e-04] w = [0.00389073 0.99771586 1.99839341] w\_new= [0.00388532 0.99771584 1.99839883]

gradient= [-5.39671653e-04 -1.90009356e-06 5.41571746e-04] w = [0.00388532 0.99771584 1.99839883] w\_new= [0.00387993 0.99771583 1.99840425]

gradient= [-5.38869797e-04 -1.89752572e-06 5.40767323e-04] w = [0.00387993 0.99771583 1.99840425] w\_new= [0.00387454 0.99771581 1.99840966]

gradient= [-5.38069135e-04 -1.89496131e-06 5.39964097e-04] w = [0.00387454 0.99771581 1.99840966] w\_new= [0.00386916 0.99771579 1.99841506]

gradient= [-5.37269665e-04 -1.89240031e-06 5.39162065e-04] w = [0.00386916 0.99771579 1.99841506] w\_new= [0.00386378 0.99771577 1.99842045]

gradient= [-5.36471384e-04 -1.88984274e-06 5.38361226e-04] w = [0.00386378 0.99771577 1.99842045] w\_new= [0.00385842 0.99771575 1.99842583]

gradient= [-5.35674290e-04 -1.88728857e-06 5.37561579e-04] w = [0.00385842 0.99771575 1.99842583] w\_new= [0.00385306 0.99771573 1.99843121]

gradient= [-5.34878383e-04 -1.88473782e-06 5.36763121e-04] w = [0.00385306 0.99771573 1.99843121] w\_new= [0.00384771 0.99771571 1.99843657]

gradient= [-5.34083660e-04 -1.88219047e-06 5.35965850e-04] w = [0.00384771 0.99771571 1.99843657] w\_new= [0.00384237 0.99771569 1.99844193]

gradient= [-5.33290119e-04 -1.87964652e-06 5.35169766e-04] w = [0.00384237 0.99771569 1.99844193] w\_new= [0.00383704 0.99771567 1.99844728]

gradient= [-5.32497759e-04 -1.87710596e-06 5.34374865e-04] w = [0.00383704 0.99771567 1.99844728] w\_new= [0.00383172 0.99771566 1.99845263]

gradient= [-5.31706578e-04 -1.87456880e-06 5.33581147e-04] w = [0.00383172 0.99771566 1.99845263] w\_new= [0.0038264 0.99771564 1.99845796]

gradient= [-5.30916574e-04 -1.87203502e-06 5.32788609e-04] w = [0.0038264 0.99771564 1.99845796] w\_new= [0.00382109 0.99771562 1.99846329]

gradient= [-5.30127746e-04 -1.86950462e-06 5.31997250e-04] w = [0.00382109 0.99771562 1.99846329] w\_new= [0.00381579 0.9977156 1.99846861]

gradient= [-5.29340091e-04 -1.86697760e-06 5.31207069e-04] w = [0.00381579 0.9977156 1.99846861] w\_new= [0.00381049 0.99771558 1.99847392]

gradient= [-5.28553608e-04 -1.86445395e-06 5.30418062e-04] w = [0.00381049 0.99771558 1.99847392] w\_new= [0.00380521 0.99771556 1.99847923]

gradient= [-5.27768295e-04 -1.86193367e-06 5.29630229e-04] w = [0.00380521 0.99771556 1.99847923] w\_new= [0.00379993 0.99771554 1.99848452]

gradient= [-5.26984151e-04 -1.85941675e-06 5.28843568e-04] w = [0.00379993 0.99771554 1.99848452] w\_new= [0.00379466 0.99771553 1.99848981]

gradient= [-5.26201173e-04 -1.85690319e-06 5.28058077e-04] w = [0.00379466 0.99771553 1.99848981] w\_new= [0.0037894 0.99771551 1.99849509]

gradient= [-5.25419361e-04 -1.85439299e-06 5.27273754e-04] w = [0.0037894 0.99771551 1.99849509] w\_new= [0.00378415 0.99771549 1.99850037]

gradient= [-5.24638711e-04 -1.85188614e-06 5.26490597e-04] w = [0.00378415 0.99771549 1.99850037] w\_new= [0.0037789 0.99771547 1.99850563]

gradient= [-5.23859223e-04 -1.84938263e-06 5.25708606e-04] w = [0.0037789 0.99771547 1.99850563] w\_new= [0.00377366 0.99771545 1.99851089]

gradient= [-5.23080895e-04 -1.84688247e-06 5.24927777e-04] w = [0.00377366 0.99771545 1.99851089] w\_new= [0.00376843 0.99771543 1.99851614]

gradient= [-5.22303725e-04 -1.84438564e-06 5.24148110e-04] w = [0.00376843 0.99771543 1.99851614] w\_new= [0.00376321 0.99771541 1.99852138]

gradient= [-5.21527711e-04 -1.84189214e-06 5.23369603e-04] w = [0.00376321 0.99771541 1.99852138] w\_new= [0.00375799 0.9977154 1.99852661]

gradient= [-5.20752851e-04 -1.83940198e-06 5.22592253e-04] w = [0.00375799 0.9977154 1.99852661] w\_new= [0.00375278 0.99771538 1.99853184]

gradient= [-5.19979144e-04 -1.83691514e-06 5.21816060e-04] w = [0.00375278 0.99771538 1.99853184] w\_new= [0.00374758 0.99771536 1.99853706]

gradient= [-5.19206589e-04 -1.83443161e-06 5.21041020e-04] w = [0.00374758 0.99771536 1.99853706] w\_new= [0.00374239 0.99771534 1.99854227]

gradient= [-5.18435183e-04 -1.83195141e-06 5.20267134e-04] w = [0.00374239 0.99771534 1.99854227] w\_new= [0.00373721 0.99771532 1.99854747]

gradient= [-5.17664924e-04 -1.82947451e-06 5.19494399e-04] w = [0.00373721 0.99771532 1.99854747] w\_new= [0.00373203 0.9977153 1.99855267]

gradient= [-5.16895812e-04 -1.82700092e-06 5.18722812e-04] w = [0.00373203 0.9977153 1.99855267] w\_new= [0.00372686 0.99771529 1.99855785]

gradient= [-5.16127843e-04 -1.82453063e-06 5.17952374e-04] w = [0.00372686 0.99771529 1.99855785] w\_new= [0.0037217 0.99771527 1.99856303]

gradient= [-5.15361017e-04 -1.82206365e-06 5.17183081e-04] w = [0.0037217 0.99771527 1.99856303] w\_new= [0.00371655 0.99771525 1.9985682 ]

gradient= [-5.14595333e-04 -1.81959995e-06 5.16414933e-04] w = [0.00371655 0.99771525 1.9985682 ] w\_new= [0.0037114 0.99771523 1.99857337]

gradient= [-5.13830787e-04 -1.81713954e-06 5.15647926e-04] w = [0.0037114 0.99771523 1.99857337] w\_new= [0.00370626 0.99771521 1.99857852]

gradient= [-5.13067378e-04 -1.81468242e-06 5.14882061e-04] w = [0.00370626 0.99771521 1.99857852] w\_new= [0.00370113 0.99771519 1.99858367]

gradient= [-5.12305106e-04 -1.81222858e-06 5.14117334e-04] w = [0.00370113 0.99771519 1.99858367] w\_new= [0.00369601 0.99771518 1.99858881]

gradient= [-5.11543967e-04 -1.80977801e-06 5.13353745e-04] w = [0.00369601 0.99771518 1.99858881] w\_new= [0.00369089 0.99771516 1.99859395]

gradient= [-5.10783961e-04 -1.80733072e-06 5.12591292e-04] w = [0.00369089 0.99771516 1.99859395] w\_new= [0.00368579 0.99771514 1.99859907]

gradient= [-5.10025085e-04 -1.80488670e-06 5.11829972e-04] w = [0.00368579 0.99771514 1.99859907] w\_new= [0.00368069 0.99771512 1.99860419]

gradient= [-5.09267339e-04 -1.80244593e-06 5.11069785e-04] w = [0.00368069 0.99771512 1.99860419] w\_new= [0.00367559 0.9977151 1.9986093 ]

gradient= [-5.08510720e-04 -1.80000843e-06 5.10310728e-04] w = [0.00367559 0.9977151 1.9986093 ] w\_new= [0.00367051 0.99771509 1.99861441]

gradient= [-5.07755226e-04 -1.79757418e-06 5.09552800e-04] w = [0.00367051 0.99771509 1.99861441] w\_new= [0.00366543 0.99771507 1.9986195 ]

gradient= [-5.07000856e-04 -1.79514318e-06 5.08795999e-04] w = [0.00366543 0.99771507 1.9986195 ] w\_new= [0.00366036 0.99771505 1.99862459]

gradient= [-5.06247609e-04 -1.79271543e-06 5.08040324e-04] w = [0.00366036 0.99771505 1.99862459] w\_new= [0.0036553 0.99771503 1.99862967]

gradient= [-5.05495482e-04 -1.79029092e-06 5.07285773e-04] w = [0.0036553 0.99771503 1.99862967] w\_new= [0.00365024 0.99771501 1.99863474]

gradient= [-5.04744474e-04 -1.78786965e-06 5.06532344e-04] w = [0.00365024 0.99771501 1.99863474] w\_new= [0.0036452 0.997715 1.99863981]

gradient= [-5.03994583e-04 -1.78545161e-06 5.05780035e-04] w = [0.0036452 0.997715 1.99863981] w\_new= [0.00364016 0.99771498 1.99864487]

gradient= [-5.03245808e-04 -1.78303680e-06 5.05028845e-04] w = [0.00364016 0.99771498 1.99864487] w\_new= [0.00363512 0.99771496 1.99864992]

gradient= [-5.02498147e-04 -1.78062521e-06 5.04278772e-04] w = [0.00363512 0.99771496 1.99864992] w\_new= [0.0036301 0.99771494 1.99865496]

gradient= [-5.01751598e-04 -1.77821685e-06 5.03529815e-04] w = [0.0036301 0.99771494 1.99865496] w\_new= [0.00362508 0.99771493 1.99865999]

gradient= [-5.01006159e-04 -1.77581170e-06 5.02781971e-04] w = [0.00362508 0.99771493 1.99865999] w\_new= [0.00362007 0.99771491 1.99866502]

gradient= [-5.00261830e-04 -1.77340976e-06 5.02035240e-04] w = [0.00362007 0.99771491 1.99866502] w\_new= [0.00361507 0.99771489 1.99867004]

gradient= [-4.99518608e-04 -1.77101104e-06 5.01289619e-04] w = [0.00361507 0.99771489 1.99867004] w\_new= [0.00361007 0.99771487 1.99867506]

gradient= [-4.98776491e-04 -1.76861551e-06 5.00545107e-04] w = [0.00361007 0.99771487 1.99867506] w\_new= [0.00360508 0.99771485 1.99868006]

gradient= [-4.98035479e-04 -1.76622319e-06 4.99801702e-04] w = [0.00360508 0.99771485 1.99868006] w\_new= [0.0036001 0.99771484 1.99868506]

gradient= [-4.97295568e-04 -1.76383406e-06 4.99059403e-04] w = [0.0036001 0.99771484 1.99868506] w\_new= [0.00359513 0.99771482 1.99869005]

gradient= [-4.96556759e-04 -1.76144812e-06 4.98318207e-04] w = [0.00359513 0.99771482 1.99869005] w\_new= [0.00359017 0.9977148 1.99869503]

gradient= [-4.95819048e-04 -1.75906536e-06 4.97578114e-04] w = [0.00359017 0.9977148 1.99869503] w\_new= [0.00358521 0.99771478 1.99870001]

gradient= [-4.95082435e-04 -1.75668579e-06 4.96839121e-04] w = [0.00358521 0.99771478 1.99870001] w\_new= [0.00358026 0.99771477 1.99870498]

gradient= [-4.94346918e-04 -1.75430940e-06 4.96101227e-04] w = [0.00358026 0.99771477 1.99870498] w\_new= [0.00357531 0.99771475 1.99870994]

gradient= [-4.93612495e-04 -1.75193618e-06 4.95364431e-04] w = [0.00357531 0.99771475 1.99870994] w\_new= [0.00357038 0.99771473 1.99871489]

gradient= [-4.92879164e-04 -1.74956613e-06 4.94628730e-04] w = [0.00357038 0.99771473 1.99871489] w\_new= [0.00356545 0.99771471 1.99871984]

gradient= [-4.92146924e-04 -1.74719925e-06 4.93894124e-04] w = [0.00356545 0.99771471 1.99871984] w\_new= [0.00356053 0.9977147 1.99872478]

gradient= [-4.91415774e-04 -1.74483553e-06 4.93160610e-04] w = [0.00356053 0.9977147 1.99872478] w\_new= [0.00355561 0.99771468 1.99872971]

gradient= [-4.90685711e-04 -1.74247497e-06 4.92428186e-04] w = [0.00355561 0.99771468 1.99872971] w\_new= [0.00355071 0.99771466 1.99873463]

gradient= [-4.89956734e-04 -1.74011756e-06 4.91696852e-04] w = [0.00355071 0.99771466 1.99873463] w\_new= [0.00354581 0.99771464 1.99873955]

gradient= [-4.89228842e-04 -1.73776330e-06 4.90966605e-04] w = [0.00354581 0.99771464 1.99873955] w\_new= [0.00354091 0.99771463 1.99874446]

gradient= [-4.88502032e-04 -1.73541218e-06 4.90237444e-04] w = [0.00354091 0.99771463 1.99874446] w\_new= [0.00353603 0.99771461 1.99874936]

gradient= [-4.87776303e-04 -1.73306421e-06 4.89509368e-04] w = [0.00353603 0.99771461 1.99874936] w\_new= [0.00353115 0.99771459 1.99875426]

gradient= [-4.87051654e-04 -1.73071937e-06 4.88782374e-04] w = [0.00353115 0.99771459 1.99875426] w\_new= [0.00352628 0.99771457 1.99875914]

gradient= [-4.86328083e-04 -1.72837767e-06 4.88056461e-04] w = [0.00352628 0.99771457 1.99875914] w\_new= [0.00352142 0.99771456 1.99876402]

gradient= [-4.85605588e-04 -1.72603909e-06 4.87331627e-04] w = [0.00352142 0.99771456 1.99876402] w\_new= [0.00351656 0.99771454 1.9987689 ]

gradient= [-4.84884168e-04 -1.72370364e-06 4.86607872e-04] w = [0.00351656 0.99771454 1.9987689 ] w\_new= [0.00351171 0.99771452 1.99877376]

gradient= [-4.84163821e-04 -1.72137130e-06 4.85885193e-04] w = [0.00351171 0.99771452 1.99877376] w\_new= [0.00350687 0.99771451 1.99877862]

gradient= [-4.83444546e-04 -1.71904209e-06 4.85163588e-04] w = [0.00350687 0.99771451 1.99877862] w\_new= [0.00350204 0.99771449 1.99878347]

gradient= [-4.82726340e-04 -1.71671598e-06 4.84443056e-04] w = [0.00350204 0.99771449 1.99878347] w\_new= [0.00349721 0.99771447 1.99878832]

gradient= [-4.82009203e-04 -1.71439299e-06 4.83723596e-04] w = [0.00349721 0.99771447 1.99878832] w\_new= [0.00349239 0.99771445 1.99879316]

gradient= [-4.81293133e-04 -1.71207310e-06 4.83005206e-04] w = [0.00349239 0.99771445 1.99879316] w\_new= [0.00348758 0.99771444 1.99879799]

gradient= [-4.80578127e-04 -1.70975630e-06 4.82287884e-04] w = [0.00348758 0.99771444 1.99879799] w\_new= [0.00348277 0.99771442 1.99880281]

gradient= [-4.79864186e-04 -1.70744261e-06 4.81571628e-04] w = [0.00348277 0.99771442 1.99880281] w\_new= [0.00347797 0.9977144 1.99880763]

gradient= [-4.79151306e-04 -1.70513200e-06 4.80856438e-04] w = [0.00347797 0.9977144 1.99880763] w\_new= [0.00347318 0.99771439 1.99881243]

gradient= [-4.78439486e-04 -1.70282448e-06 4.80142311e-04] w = [0.00347318 0.99771439 1.99881243] w\_new= [0.0034684 0.99771437 1.99881724]

gradient= [-4.77728726e-04 -1.70052005e-06 4.79429246e-04] w = [0.0034684 0.99771437 1.99881724] w\_new= [0.00346362 0.99771435 1.99882203]

gradient= [-4.77019022e-04 -1.69821869e-06 4.78717241e-04] w = [0.00346362 0.99771435 1.99882203] w\_new= [0.00345885 0.99771434 1.99882682]

gradient= [-4.76310374e-04 -1.69592041e-06 4.78006295e-04] w = [0.00345885 0.99771434 1.99882682] w\_new= [0.00345409 0.99771432 1.9988316 ]

gradient= [-4.75602781e-04 -1.69362520e-06 4.77296406e-04] w = [0.00345409 0.99771432 1.9988316 ] w\_new= [0.00344933 0.9977143 1.99883637]

gradient= [-4.74896240e-04 -1.69133306e-06 4.76587573e-04] w = [0.00344933 0.9977143 1.99883637] w\_new= [0.00344458 0.99771428 1.99884114]

gradient= [-4.74190749e-04 -1.68904398e-06 4.75879793e-04] w = [0.00344458 0.99771428 1.99884114] w\_new= [0.00343984 0.99771427 1.99884589]

gradient= [-4.73486308e-04 -1.68675796e-06 4.75173066e-04] w = [0.00343984 0.99771427 1.99884589] w\_new= [0.0034351 0.99771425 1.99885065]

gradient= [-4.72782915e-04 -1.68447500e-06 4.74467390e-04] w = [0.0034351 0.99771425 1.99885065] w\_new= [0.00343038 0.99771423 1.99885539]

gradient= [-4.72080568e-04 -1.68219508e-06 4.73762763e-04] w = [0.00343038 0.99771423 1.99885539] w\_new= [0.00342565 0.99771422 1.99886013]

gradient= [-4.71379266e-04 -1.67991822e-06 4.73059184e-04] w = [0.00342565 0.99771422 1.99886013] w\_new= [0.00342094 0.9977142 1.99886486]

gradient= [-4.70679007e-04 -1.67764439e-06 4.72356651e-04] w = [0.00342094 0.9977142 1.99886486] w\_new= [0.00341623 0.99771418 1.99886958]

gradient= [-4.69979789e-04 -1.67537361e-06 4.71655163e-04] w = [0.00341623 0.99771418 1.99886958] w\_new= [0.00341153 0.99771417 1.9988743 ]

gradient= [-4.69281612e-04 -1.67310586e-06 4.70954718e-04] w = [0.00341153 0.99771417 1.9988743 ] w\_new= [0.00340684 0.99771415 1.99887901]

gradient= [-4.68584473e-04 -1.67084114e-06 4.70255314e-04] w = [0.00340684 0.99771415 1.99887901] w\_new= [0.00340216 0.99771413 1.99888371]

gradient= [-4.67888371e-04 -1.66857945e-06 4.69556950e-04] w = [0.00340216 0.99771413 1.99888371] w\_new= [0.00339748 0.99771412 1.99888841]

gradient= [-4.67193304e-04 -1.66632078e-06 4.68859625e-04] w = [0.00339748 0.99771412 1.99888841] w\_new= [0.0033928 0.9977141 1.9988931]

gradient= [-4.66499271e-04 -1.66406513e-06 4.68163336e-04] w = [0.0033928 0.9977141 1.9988931] w\_new= [0.00338814 0.99771408 1.99889778]

gradient= [-4.65806270e-04 -1.66181249e-06 4.67468083e-04] w = [0.00338814 0.99771408 1.99889778] w\_new= [0.00338348 0.99771407 1.99890245]

gradient= [-4.65114300e-04 -1.65956287e-06 4.66773863e-04] w = [0.00338348 0.99771407 1.99890245] w\_new= [0.00337883 0.99771405 1.99890712]

gradient= [-4.64423359e-04 -1.65731625e-06 4.66080676e-04] w = [0.00337883 0.99771405 1.99890712] w\_new= [0.00337419 0.99771403 1.99891178]

gradient= [-4.63733446e-04 -1.65507264e-06 4.65388519e-04] w = [0.00337419 0.99771403 1.99891178] w\_new= [0.00336955 0.99771402 1.99891643]

gradient= [-4.63044559e-04 -1.65283202e-06 4.64697391e-04] w = [0.00336955 0.99771402 1.99891643] w\_new= [0.00336492 0.997714 1.99892108]

gradient= [-4.62356697e-04 -1.65059440e-06 4.64007291e-04] w = [0.00336492 0.997714 1.99892108] w\_new= [0.0033603 0.99771398 1.99892572]

gradient= [-4.61669858e-04 -1.64835978e-06 4.63318217e-04] w = [0.0033603 0.99771398 1.99892572] w\_new= [0.00335568 0.99771397 1.99893035]

gradient= [-4.60984040e-04 -1.64612814e-06 4.62630168e-04] w = [0.00335568 0.99771397 1.99893035] w\_new= [0.00335107 0.99771395 1.99893498]

gradient= [-4.60299242e-04 -1.64389948e-06 4.61943142e-04] w = [0.00335107 0.99771395 1.99893498] w\_new= [0.00334647 0.99771393 1.9989396 ]

gradient= [-4.59615463e-04 -1.64167380e-06 4.61257137e-04] w = [0.00334647 0.99771393 1.9989396 ] w\_new= [0.00334187 0.99771392 1.99894421]

gradient= [-4.58932701e-04 -1.63945110e-06 4.60572152e-04] w = [0.00334187 0.99771392 1.99894421] w\_new= [0.00333728 0.9977139 1.99894882]

gradient= [-4.58250954e-04 -1.63723137e-06 4.59888186e-04] w = [0.00333728 0.9977139 1.99894882] w\_new= [0.0033327 0.99771389 1.99895342]

gradient= [-4.57570221e-04 -1.63501460e-06 4.59205236e-04] w = [0.0033327 0.99771389 1.99895342] w\_new= [0.00332812 0.99771387 1.99895801]

gradient= [-4.56890501e-04 -1.63280080e-06 4.58523302e-04] w = [0.00332812 0.99771387 1.99895801] w\_new= [0.00332355 0.99771385 1.99896259]

gradient= [-4.56211792e-04 -1.63058996e-06 4.57842382e-04] w = [0.00332355 0.99771385 1.99896259] w\_new= [0.00331899 0.99771384 1.99896717]

gradient= [-4.55534092e-04 -1.62838208e-06 4.57162474e-04] w = [0.00331899 0.99771384 1.99896717] w\_new= [0.00331444 0.99771382 1.99897174]

gradient= [-4.54857400e-04 -1.62617715e-06 4.56483577e-04] w = [0.00331444 0.99771382 1.99897174] w\_new= [0.00330989 0.9977138 1.99897631]

gradient= [-4.54181714e-04 -1.62397516e-06 4.55805689e-04] w = [0.00330989 0.9977138 1.99897631] w\_new= [0.00330535 0.99771379 1.99898087]

gradient= [-4.53507033e-04 -1.62177612e-06 4.55128810e-04] w = [0.00330535 0.99771379 1.99898087] w\_new= [0.00330081 0.99771377 1.99898542]

gradient= [-4.52833356e-04 -1.61958002e-06 4.54452936e-04] w = [0.00330081 0.99771377 1.99898542] w\_new= [0.00329628 0.99771375 1.99898996]

gradient= [-4.52160681e-04 -1.61738686e-06 4.53778068e-04] w = [0.00329628 0.99771375 1.99898996] w\_new= [0.00329176 0.99771374 1.9989945 ]

gradient= [-4.51489006e-04 -1.61519663e-06 4.53104203e-04] w = [0.00329176 0.99771374 1.9989945 ] w\_new= [0.00328725 0.99771372 1.99899903]

gradient= [-4.50818330e-04 -1.61300933e-06 4.52431339e-04] w = [0.00328725 0.99771372 1.99899903] w\_new= [0.00328274 0.99771371 1.99900356]

gradient= [-4.50148652e-04 -1.61082495e-06 4.51759477e-04] w = [0.00328274 0.99771371 1.99900356] w\_new= [0.00327824 0.99771369 1.99900807]

gradient= [-4.49479969e-04 -1.60864349e-06 4.51088613e-04] w = [0.00327824 0.99771369 1.99900807] w\_new= [0.00327374 0.99771367 1.99901258]

gradient= [-4.48812281e-04 -1.60646496e-06 4.50418746e-04] w = [0.00327374 0.99771367 1.99901258] w\_new= [0.00326925 0.99771366 1.99901709]

gradient= [-4.48145586e-04 -1.60428933e-06 4.49749875e-04] w = [0.00326925 0.99771366 1.99901709] w\_new= [0.00326477 0.99771364 1.99902159]

gradient= [-4.47479883e-04 -1.60211661e-06 4.49081999e-04] w = [0.00326477 0.99771364 1.99902159] w\_new= [0.0032603 0.99771363 1.99902608]

gradient= [-4.46815169e-04 -1.59994680e-06 4.48415116e-04] w = [0.0032603 0.99771363 1.99902608] w\_new= [0.00325583 0.99771361 1.99903056]

gradient= [-4.46151444e-04 -1.59777989e-06 4.47749224e-04] w = [0.00325583 0.99771361 1.99903056] w\_new= [0.00325137 0.99771359 1.99903504]

gradient= [-4.45488706e-04 -1.59561588e-06 4.47084322e-04] w = [0.00325137 0.99771359 1.99903504] w\_new= [0.00324691 0.99771358 1.99903951]

gradient= [-4.44826954e-04 -1.59345477e-06 4.46420409e-04] w = [0.00324691 0.99771358 1.99903951] w\_new= [0.00324246 0.99771356 1.99904397]

gradient= [-4.44166186e-04 -1.59129654e-06 4.45757483e-04] w = [0.00324246 0.99771356 1.99904397] w\_new= [0.00323802 0.99771355 1.99904843]

gradient= [-4.43506401e-04 -1.58914120e-06 4.45095542e-04] w = [0.00323802 0.99771355 1.99904843] w\_new= [0.00323359 0.99771353 1.99905288]

gradient= [-4.42847597e-04 -1.58698874e-06 4.44434586e-04] w = [0.00323359 0.99771353 1.99905288] w\_new= [0.00322916 0.99771351 1.99905733]

gradient= [-4.42189772e-04 -1.58483917e-06 4.43774612e-04] w = [0.00322916 0.99771351 1.99905733] w\_new= [0.00322474 0.9977135 1.99906176]

gradient= [-4.41532926e-04 -1.58269246e-06 4.43115619e-04] w = [0.00322474 0.9977135 1.99906176] w\_new= [0.00322032 0.99771348 1.9990662 ]

gradient= [-4.40877057e-04 -1.58054863e-06 4.42457606e-04] w = [0.00322032 0.99771348 1.9990662 ] w\_new= [0.00321591 0.99771347 1.99907062]

gradient= [-4.40222163e-04 -1.57840767e-06 4.41800571e-04] w = [0.00321591 0.99771347 1.99907062] w\_new= [0.00321151 0.99771345 1.99907504]

gradient= [-4.39568243e-04 -1.57626957e-06 4.41144513e-04] w = [0.00321151 0.99771345 1.99907504] w\_new= [0.00320711 0.99771344 1.99907945]

gradient= [-4.38915296e-04 -1.57413433e-06 4.40489430e-04] w = [0.00320711 0.99771344 1.99907945] w\_new= [0.00320273 0.99771342 1.99908385]

gradient= [-4.38263320e-04 -1.57200194e-06 4.39835322e-04] w = [0.00320273 0.99771342 1.99908385] w\_new= [0.00319834 0.9977134 1.99908825]

gradient= [-4.37612313e-04 -1.56987241e-06 4.39182185e-04] w = [0.00319834 0.9977134 1.99908825] w\_new= [0.00319397 0.99771339 1.99909264]

gradient= [-4.36962274e-04 -1.56774573e-06 4.38530020e-04] w = [0.00319397 0.99771339 1.99909264] w\_new= [0.0031896 0.99771337 1.99909703]

gradient= [-4.36313202e-04 -1.56562189e-06 4.37878824e-04] w = [0.0031896 0.99771337 1.99909703] w\_new= [0.00318523 0.99771336 1.99910141]

gradient= [-4.35665095e-04 -1.56350089e-06 4.37228596e-04] w = [0.00318523 0.99771336 1.99910141] w\_new= [0.00318088 0.99771334 1.99910578]

gradient= [-4.35017952e-04 -1.56138273e-06 4.36579335e-04] w = [0.00318088 0.99771334 1.99910578] w\_new= [0.00317653 0.99771333 1.99911015]

gradient= [-4.34371772e-04 -1.55926740e-06 4.35931039e-04] w = [0.00317653 0.99771333 1.99911015] w\_new= [0.00317218 0.99771331 1.99911451]

gradient= [-4.33726552e-04 -1.55715491e-06 4.35283707e-04] w = [0.00317218 0.99771331 1.99911451] w\_new= [0.00316785 0.99771329 1.99911886]

gradient= [-4.33082292e-04 -1.55504524e-06 4.34637337e-04] w = [0.00316785 0.99771329 1.99911886] w\_new= [0.00316352 0.99771328 1.99912321]

gradient= [-4.32438990e-04 -1.55293839e-06 4.33991929e-04] w = [0.00316352 0.99771328 1.99912321] w\_new= [0.00315919 0.99771326 1.99912755]

gradient= [-4.31796645e-04 -1.55083436e-06 4.33347479e-04] w = [0.00315919 0.99771326 1.99912755] w\_new= [0.00315487 0.99771325 1.99913188]

gradient= [-4.31155255e-04 -1.54873315e-06 4.32703988e-04] w = [0.00315487 0.99771325 1.99913188] w\_new= [0.00315056 0.99771323 1.99913621]

gradient= [-4.30514818e-04 -1.54663474e-06 4.32061453e-04] w = [0.00315056 0.99771323 1.99913621] w\_new= [0.00314626 0.99771322 1.99914053]

gradient= [-4.29875334e-04 -1.54453915e-06 4.31419874e-04] w = [0.00314626 0.99771322 1.99914053] w\_new= [0.00314196 0.9977132 1.99914484]

gradient= [-4.29236801e-04 -1.54244636e-06 4.30779248e-04] w = [0.00314196 0.9977132 1.99914484] w\_new= [0.00313767 0.99771319 1.99914915]

gradient= [-4.28599218e-04 -1.54035636e-06 4.30139574e-04] w = [0.00313767 0.99771319 1.99914915] w\_new= [0.00313338 0.99771317 1.99915345]

gradient= [-4.27962583e-04 -1.53826917e-06 4.29500852e-04] w = [0.00313338 0.99771317 1.99915345] w\_new= [0.0031291 0.99771316 1.99915775]

gradient= [-4.27326894e-04 -1.53618477e-06 4.28863079e-04] w = [0.0031291 0.99771316 1.99915775] w\_new= [0.00312483 0.99771314 1.99916203]

gradient= [-4.26692151e-04 -1.53410315e-06 4.28226254e-04] w = [0.00312483 0.99771314 1.99916203] w\_new= [0.00312056 0.99771312 1.99916632]

gradient= [-4.26058351e-04 -1.53202433e-06 4.27590376e-04] w = [0.00312056 0.99771312 1.99916632] w\_new= [0.0031163 0.99771311 1.99917059]

gradient= [-4.25425495e-04 -1.52994828e-06 4.26955443e-04] w = [0.0031163 0.99771311 1.99917059] w\_new= [0.00311204 0.99771309 1.99917486]

gradient= [-4.24793579e-04 -1.52787501e-06 4.26321454e-04] w = [0.00311204 0.99771309 1.99917486] w\_new= [0.0031078 0.99771308 1.99917912]

gradient= [-4.24162603e-04 -1.52580452e-06 4.25688407e-04] w = [0.0031078 0.99771308 1.99917912] w\_new= [0.00310355 0.99771306 1.99918338]

gradient= [-4.23532565e-04 -1.52373680e-06 4.25056302e-04] w = [0.00310355 0.99771306 1.99918338] w\_new= [0.00309932 0.99771305 1.99918763]

gradient= [-4.22903464e-04 -1.52167184e-06 4.24425136e-04] w = [0.00309932 0.99771305 1.99918763] w\_new= [0.00309509 0.99771303 1.99919188]

gradient= [-4.22275298e-04 -1.51960965e-06 4.23794908e-04] w = [0.00309509 0.99771303 1.99919188] w\_new= [0.00309087 0.99771302 1.99919611]

gradient= [-4.21648067e-04 -1.51755022e-06 4.23165617e-04] w = [0.00309087 0.99771302 1.99919611] w\_new= [0.00308665 0.997713 1.99920035]

gradient= [-4.21021768e-04 -1.51549354e-06 4.22537262e-04] w = [0.00308665 0.997713 1.99920035] w\_new= [0.00308244 0.99771299 1.99920457]

gradient= [-4.20396401e-04 -1.51343961e-06 4.21909840e-04] w = [0.00308244 0.99771299 1.99920457] w\_new= [0.00307824 0.99771297 1.99920879]

gradient= [-4.19771963e-04 -1.51138844e-06 4.21283352e-04] w = [0.00307824 0.99771297 1.99920879] w\_new= [0.00307404 0.99771296 1.999213 ]

gradient= [-4.19148454e-04 -1.50934001e-06 4.20657794e-04] w = [0.00307404 0.99771296 1.999213 ] w\_new= [0.00306985 0.99771294 1.99921721]

gradient= [-4.18525873e-04 -1.50729432e-06 4.20033167e-04] w = [0.00306985 0.99771294 1.99921721] w\_new= [0.00306566 0.99771293 1.99922141]

gradient= [-4.17904217e-04 -1.50525137e-06 4.19409468e-04] w = [0.00306566 0.99771293 1.99922141] w\_new= [0.00306148 0.99771291 1.9992256 ]

gradient= [-4.17283485e-04 -1.50321116e-06 4.18786696e-04] w = [0.00306148 0.99771291 1.9992256 ] w\_new= [0.00305731 0.9977129 1.99922979]

gradient= [-4.16663677e-04 -1.50117367e-06 4.18164850e-04] w = [0.00305731 0.9977129 1.99922979] w\_new= [0.00305314 0.99771288 1.99923397]

gradient= [-4.16044790e-04 -1.49913891e-06 4.17543928e-04] w = [0.00305314 0.99771288 1.99923397] w\_new= [0.00304898 0.99771287 1.99923815]

gradient= [-4.15426823e-04 -1.49710688e-06 4.16923930e-04] w = [0.00304898 0.99771287 1.99923815] w\_new= [0.00304483 0.99771285 1.99924232]

gradient= [-4.14809775e-04 -1.49507756e-06 4.16304853e-04] w = [0.00304483 0.99771285 1.99924232] w\_new= [0.00304068 0.99771284 1.99924648]

gradient= [-4.14193645e-04 -1.49305096e-06 4.15686696e-04] w = [0.00304068 0.99771284 1.99924648] w\_new= [0.00303654 0.99771282 1.99925064]

gradient= [-4.13578431e-04 -1.49102708e-06 4.15069458e-04] w = [0.00303654 0.99771282 1.99925064] w\_new= [0.0030324 0.99771281 1.99925479]

gradient= [-4.12964131e-04 -1.48900590e-06 4.14453137e-04] w = [0.0030324 0.99771281 1.99925479] w\_new= [0.00302827 0.99771279 1.99925893]

gradient= [-4.12350746e-04 -1.48698743e-06 4.13837733e-04] w = [0.00302827 0.99771279 1.99925893] w\_new= [0.00302415 0.99771278 1.99926307]

gradient= [-4.11738272e-04 -1.48497166e-06 4.13223243e-04] w = [0.00302415 0.99771278 1.99926307] w\_new= [0.00302003 0.99771276 1.9992672 ]

gradient= [-4.11126709e-04 -1.48295859e-06 4.12609667e-04] w = [0.00302003 0.99771276 1.9992672 ] w\_new= [0.00301592 0.99771275 1.99927133]

gradient= [-4.10516055e-04 -1.48094822e-06 4.11997003e-04] w = [0.00301592 0.99771275 1.99927133] w\_new= [0.00301182 0.99771273 1.99927545]

gradient= [-4.09906309e-04 -1.47894053e-06 4.11385250e-04] w = [0.00301182 0.99771273 1.99927545] w\_new= [0.00300772 0.99771272 1.99927956]

gradient= [-4.09297470e-04 -1.47693554e-06 4.10774406e-04] w = [0.00300772 0.99771272 1.99927956] w\_new= [0.00300362 0.9977127 1.99928367]

gradient= [-4.08689536e-04 -1.47493323e-06 4.10164469e-04] w = [0.00300362 0.9977127 1.99928367] w\_new= [0.00299954 0.99771269 1.99928777]

gradient= [-4.08082506e-04 -1.47293360e-06 4.09555440e-04] w = [0.00299954 0.99771269 1.99928777] w\_new= [0.00299546 0.99771267 1.99929187]

gradient= [-4.07476379e-04 -1.47093664e-06 4.08947316e-04] w = [0.00299546 0.99771267 1.99929187] w\_new= [0.00299138 0.99771266 1.99929596]

gradient= [-4.06871153e-04 -1.46894236e-06 4.08340095e-04] w = [0.00299138 0.99771266 1.99929596] w\_new= [0.00298731 0.99771264 1.99930004]

gradient= [-4.06266827e-04 -1.46695075e-06 4.07733778e-04] w = [0.00298731 0.99771264 1.99930004] w\_new= [0.00298325 0.99771263 1.99930412]

gradient= [-4.05663399e-04 -1.46496181e-06 4.07128361e-04] w = [0.00298325 0.99771263 1.99930412] w\_new= [0.00297919 0.99771262 1.99930819]

gradient= [-4.05060869e-04 -1.46297553e-06 4.06523844e-04] w = [0.00297919 0.99771262 1.99930819] w\_new= [0.00297514 0.9977126 1.99931226]

gradient= [-4.04459235e-04 -1.46099191e-06 4.05920226e-04] w = [0.00297514 0.9977126 1.99931226] w\_new= [0.0029711 0.99771259 1.99931631]

gradient= [-4.03858495e-04 -1.45901094e-06 4.05317506e-04] w = [0.0029711 0.99771259 1.99931631] w\_new= [0.00296706 0.99771257 1.99932037]

gradient= [-4.03258648e-04 -1.45703263e-06 4.04715681e-04] w = [0.00296706 0.99771257 1.99932037] w\_new= [0.00296303 0.99771256 1.99932442]

gradient= [-4.02659693e-04 -1.45505697e-06 4.04114750e-04] w = [0.00296303 0.99771256 1.99932442] w\_new= [0.002959 0.99771254 1.99932846]

gradient= [-4.02061629e-04 -1.45308395e-06 4.03514713e-04] w = [0.002959 0.99771254 1.99932846] w\_new= [0.00295498 0.99771253 1.99933249]

gradient= [-4.01464454e-04 -1.45111357e-06 4.02915568e-04] w = [0.00295498 0.99771253 1.99933249] w\_new= [0.00295097 0.99771251 1.99933652]

gradient= [-4.00868167e-04 -1.44914583e-06 4.02317313e-04] w = [0.00295097 0.99771251 1.99933652] w\_new= [0.00294696 0.9977125 1.99934054]

gradient= [-4.00272767e-04 -1.44718073e-06 4.01719947e-04] w = [0.00294696 0.9977125 1.99934054] w\_new= [0.00294295 0.99771248 1.99934456]

gradient= [-3.99678251e-04 -1.44521826e-06 4.01123470e-04] w = [0.00294295 0.99771248 1.99934456] w\_new= [0.00293896 0.99771247 1.99934857]

gradient= [-3.99084620e-04 -1.44325842e-06 4.00527879e-04] w = [0.00293896 0.99771247 1.99934857] w\_new= [0.00293497 0.99771246 1.99935258]

gradient= [-3.98491872e-04 -1.44130120e-06 3.99933173e-04] w = [0.00293497 0.99771246 1.99935258] w\_new= [0.00293098 0.99771244 1.99935658]

gradient= [-3.97900004e-04 -1.43934660e-06 3.99339351e-04] w = [0.00293098 0.99771244 1.99935658] w\_new= [0.002927 0.99771243 1.99936057]

gradient= [-3.97309017e-04 -1.43739462e-06 3.98746412e-04] w = [0.002927 0.99771243 1.99936057] w\_new= [0.00292303 0.99771241 1.99936456]

gradient= [-3.96718908e-04 -1.43544526e-06 3.98154354e-04] w = [0.00292303 0.99771241 1.99936456] w\_new= [0.00291906 0.9977124 1.99936854]

gradient= [-3.96129677e-04 -1.43349850e-06 3.97563176e-04] w = [0.00291906 0.9977124 1.99936854] w\_new= [0.0029151 0.99771238 1.99937251]

gradient= [-3.95541322e-04 -1.43155436e-06 3.96972877e-04] w = [0.0029151 0.99771238 1.99937251] w\_new= [0.00291115 0.99771237 1.99937648]

gradient= [-3.94953842e-04 -1.42961281e-06 3.96383455e-04] w = [0.00291115 0.99771237 1.99937648] w\_new= [0.0029072 0.99771236 1.99938045]

gradient= [-3.94367235e-04 -1.42767387e-06 3.95794909e-04] w = [0.0029072 0.99771236 1.99938045] w\_new= [0.00290325 0.99771234 1.99938441]

gradient= [-3.93781500e-04 -1.42573753e-06 3.95207238e-04] w = [0.00290325 0.99771234 1.99938441] w\_new= [0.00289931 0.99771233 1.99938836]

gradient= [-3.93196636e-04 -1.42380377e-06 3.94620440e-04] w = [0.00289931 0.99771233 1.99938836] w\_new= [0.00289538 0.99771231 1.9993923 ]

gradient= [-3.92612642e-04 -1.42187261e-06 3.94034515e-04] w = [0.00289538 0.99771231 1.9993923 ] w\_new= [0.00289146 0.9977123 1.99939625]

gradient= [-3.92029516e-04 -1.41994404e-06 3.93449460e-04] w = [0.00289146 0.9977123 1.99939625] w\_new= [0.00288754 0.99771228 1.99940018]

gradient= [-3.91447257e-04 -1.41801805e-06 3.92865275e-04] w = [0.00288754 0.99771228 1.99940018] w\_new= [0.00288362 0.99771227 1.99940411]

gradient= [-3.90865864e-04 -1.41609463e-06 3.92281958e-04] w = [0.00288362 0.99771227 1.99940411] w\_new= [0.00287971 0.99771226 1.99940803]

gradient= [-3.90285335e-04 -1.41417380e-06 3.91699509e-04] w = [0.00287971 0.99771226 1.99940803] w\_new= [0.00287581 0.99771224 1.99941195]

gradient= [-3.89705669e-04 -1.41225554e-06 3.91117925e-04] w = [0.00287581 0.99771224 1.99941195] w\_new= [0.00287191 0.99771223 1.99941586]

gradient= [-3.89126865e-04 -1.41033984e-06 3.90537205e-04] w = [0.00287191 0.99771223 1.99941586] w\_new= [0.00286802 0.99771221 1.99941976]

gradient= [-3.88548922e-04 -1.40842672e-06 3.89957348e-04] w = [0.00286802 0.99771221 1.99941976] w\_new= [0.00286414 0.9977122 1.99942366]

gradient= [-3.87971837e-04 -1.40651615e-06 3.89378354e-04] w = [0.00286414 0.9977122 1.99942366] w\_new= [0.00286026 0.99771219 1.99942756]

gradient= [-3.87395611e-04 -1.40460815e-06 3.88800219e-04] w = [0.00286026 0.99771219 1.99942756] w\_new= [0.00285638 0.99771217 1.99943145]

gradient= [-3.86820242e-04 -1.40270270e-06 3.88222944e-04] w = [0.00285638 0.99771217 1.99943145] w\_new= [0.00285251 0.99771216 1.99943533]

gradient= [-3.86245728e-04 -1.40079981e-06 3.87646527e-04] w = [0.00285251 0.99771216 1.99943533] w\_new= [0.00284865 0.99771214 1.9994392 ]

gradient= [-3.85672068e-04 -1.39889946e-06 3.87070967e-04] w = [0.00284865 0.99771214 1.9994392 ] w\_new= [0.0028448 0.99771213 1.99944308]

gradient= [-3.85099261e-04 -1.39700166e-06 3.86496262e-04] w = [0.0028448 0.99771213 1.99944308] w\_new= [0.00284094 0.99771212 1.99944694]

gradient= [-3.84527305e-04 -1.39510640e-06 3.85922412e-04] w = [0.00284094 0.99771212 1.99944694] w\_new= [0.0028371 0.9977121 1.9994508]

gradient= [-3.83956200e-04 -1.39321369e-06 3.85349414e-04] w = [0.0028371 0.9977121 1.9994508] w\_new= [0.00283326 0.99771209 1.99945465]

gradient= [-3.83385944e-04 -1.39132350e-06 3.84777268e-04] w = [0.00283326 0.99771209 1.99945465] w\_new= [0.00282943 0.99771207 1.9994585 ]

gradient= [-3.82816536e-04 -1.38943586e-06 3.84205972e-04] w = [0.00282943 0.99771207 1.9994585 ] w\_new= [0.0028256 0.99771206 1.99946234]

gradient= [-3.82247974e-04 -1.38755074e-06 3.83635525e-04] w = [0.0028256 0.99771206 1.99946234] w\_new= [0.00282178 0.99771205 1.99946618]

gradient= [-3.81680258e-04 -1.38566814e-06 3.83065926e-04] w = [0.00282178 0.99771205 1.99946618] w\_new= [0.00281796 0.99771203 1.99947001]

gradient= [-3.81113385e-04 -1.38378807e-06 3.82497173e-04] w = [0.00281796 0.99771203 1.99947001] w\_new= [0.00281415 0.99771202 1.99947383]

gradient= [-3.80547356e-04 -1.38191052e-06 3.81929266e-04] w = [0.00281415 0.99771202 1.99947383] w\_new= [0.00281034 0.997712 1.99947765]

gradient= [-3.79982168e-04 -1.38003548e-06 3.81362203e-04] w = [0.00281034 0.997712 1.99947765] w\_new= [0.00280654 0.99771199 1.99948147]

gradient= [-3.79417820e-04 -1.37816296e-06 3.80795983e-04] w = [0.00280654 0.99771199 1.99948147] w\_new= [0.00280275 0.99771198 1.99948528]

gradient= [-3.78854311e-04 -1.37629294e-06 3.80230604e-04] w = [0.00280275 0.99771198 1.99948528] w\_new= [0.00279896 0.99771196 1.99948908]

gradient= [-3.78291640e-04 -1.37442543e-06 3.79666065e-04] w = [0.00279896 0.99771196 1.99948908] w\_new= [0.00279518 0.99771195 1.99949287]

gradient= [-3.77729805e-04 -1.37256043e-06 3.79102366e-04] w = [0.00279518 0.99771195 1.99949287] w\_new= [0.0027914 0.99771194 1.99949667]

gradient= [-3.77168806e-04 -1.37069792e-06 3.78539504e-04] w = [0.0027914 0.99771194 1.99949667] w\_new= [0.00278763 0.99771192 1.99950045]

gradient= [-3.76608641e-04 -1.36883791e-06 3.77977479e-04] w = [0.00278763 0.99771192 1.99950045] w\_new= [0.00278386 0.99771191 1.99950423]

gradient= [-3.76049308e-04 -1.36698039e-06 3.77416289e-04] w = [0.00278386 0.99771191 1.99950423] w\_new= [0.0027801 0.99771189 1.99950801]

gradient= [-3.75490807e-04 -1.36512536e-06 3.76855933e-04] w = [0.0027801 0.99771189 1.99950801] w\_new= [0.00277635 0.99771188 1.99951177]

gradient= [-3.74933137e-04 -1.36327282e-06 3.76296410e-04] w = [0.00277635 0.99771188 1.99951177] w\_new= [0.0027726 0.99771187 1.99951554]

gradient= [-3.74376295e-04 -1.36142276e-06 3.75737718e-04] w = [0.0027726 0.99771187 1.99951554] w\_new= [0.00276885 0.99771185 1.99951929]

gradient= [-3.73820281e-04 -1.35957518e-06 3.75179856e-04] w = [0.00276885 0.99771185 1.99951929] w\_new= [0.00276511 0.99771184 1.99952305]

gradient= [-3.73265094e-04 -1.35773008e-06 3.74622824e-04] w = [0.00276511 0.99771184 1.99952305] w\_new= [0.00276138 0.99771183 1.99952679]

gradient= [-3.72710732e-04 -1.35588745e-06 3.74066620e-04] w = [0.00276138 0.99771183 1.99952679] w\_new= [0.00275765 0.99771181 1.99953053]

gradient= [-3.72157195e-04 -1.35404729e-06 3.73511242e-04] w = [0.00275765 0.99771181 1.99953053] w\_new= [0.00275393 0.9977118 1.99953427]

gradient= [-3.71604480e-04 -1.35220959e-06 3.72956689e-04] w = [0.00275393 0.9977118 1.99953427] w\_new= [0.00275022 0.99771179 1.999538 ]

gradient= [-3.71052587e-04 -1.35037436e-06 3.72402961e-04] w = [0.00275022 0.99771179 1.999538 ] w\_new= [0.00274651 0.99771177 1.99954172]

gradient= [-3.70501514e-04 -1.34854159e-06 3.71850056e-04] w = [0.00274651 0.99771177 1.99954172] w\_new= [0.0027428 0.99771176 1.99954544]

gradient= [-3.69951261e-04 -1.34671127e-06 3.71297972e-04] w = [0.0027428 0.99771176 1.99954544] w\_new= [0.0027391 0.99771174 1.99954915]

gradient= [-3.69401825e-04 -1.34488341e-06 3.70746709e-04] w = [0.0027391 0.99771174 1.99954915] w\_new= [0.00273541 0.99771173 1.99955286]

gradient= [-3.68853207e-04 -1.34305800e-06 3.70196265e-04] w = [0.00273541 0.99771173 1.99955286] w\_new= [0.00273172 0.99771172 1.99955656]

gradient= [-3.68305403e-04 -1.34123504e-06 3.69646639e-04] w = [0.00273172 0.99771172 1.99955656] w\_new= [0.00272804 0.9977117 1.99956026]

gradient= [-3.67758415e-04 -1.33941452e-06 3.69097829e-04] w = [0.00272804 0.9977117 1.99956026] w\_new= [0.00272436 0.99771169 1.99956395]

gradient= [-3.67212239e-04 -1.33759644e-06 3.68549836e-04] w = [0.00272436 0.99771169 1.99956395] w\_new= [0.00272069 0.99771168 1.99956764]

gradient= [-3.66666876e-04 -1.33578079e-06 3.68002656e-04] w = [0.00272069 0.99771168 1.99956764] w\_new= [0.00271702 0.99771166 1.99957132]

gradient= [-3.66122323e-04 -1.33396759e-06 3.67456290e-04] w = [0.00271702 0.99771166 1.99957132] w\_new= [0.00271336 0.99771165 1.99957499]

gradient= [-3.65578579e-04 -1.33215681e-06 3.66910736e-04] w = [0.00271336 0.99771165 1.99957499] w\_new= [0.0027097 0.99771164 1.99957866]

gradient= [-3.65035644e-04 -1.33034846e-06 3.66365993e-04] w = [0.0027097 0.99771164 1.99957866] w\_new= [0.00270605 0.99771162 1.99958232]

gradient= [-3.64493517e-04 -1.32854253e-06 3.65822059e-04] w = [0.00270605 0.99771162 1.99958232] w\_new= [0.00270241 0.99771161 1.99958598]

gradient= [-3.63952195e-04 -1.32673903e-06 3.65278934e-04] w = [0.00270241 0.99771161 1.99958598] w\_new= [0.00269877 0.9977116 1.99958963]

gradient= [-3.63411677e-04 -1.32493794e-06 3.64736615e-04] w = [0.00269877 0.9977116 1.99958963] w\_new= [0.00269513 0.99771158 1.99959328]

gradient= [-3.62871963e-04 -1.32313927e-06 3.64195103e-04] w = [0.00269513 0.99771158 1.99959328] w\_new= [0.00269151 0.99771157 1.99959692]

gradient= [-3.62333052e-04 -1.32134301e-06 3.63654395e-04] w = [0.00269151 0.99771157 1.99959692] w\_new= [0.00268788 0.99771156 1.99960056]

gradient= [-3.61794942e-04 -1.31954916e-06 3.63114491e-04] w = [0.00268788 0.99771156 1.99960056] w\_new= [0.00268426 0.99771155 1.99960419]

gradient= [-3.61257631e-04 -1.31775771e-06 3.62575389e-04] w = [0.00268426 0.99771155 1.99960419] w\_new= [0.00268065 0.99771153 1.99960782]

gradient= [-3.60721119e-04 -1.31596867e-06 3.62037088e-04] w = [0.00268065 0.99771153 1.99960782] w\_new= [0.00267704 0.99771152 1.99961144]

gradient= [-3.60185405e-04 -1.31418202e-06 3.61499587e-04] w = [0.00267704 0.99771152 1.99961144] w\_new= [0.00267344 0.99771151 1.99961505]

gradient= [-3.59650488e-04 -1.31239777e-06 3.60962885e-04] w = [0.00267344 0.99771151 1.99961505] w\_new= [0.00266985 0.99771149 1.99961866]

gradient= [-3.59116365e-04 -1.31061592e-06 3.60426981e-04] w = [0.00266985 0.99771149 1.99961866] w\_new= [0.00266625 0.99771148 1.99962227]

gradient= [-3.58583036e-04 -1.30883645e-06 3.59891873e-04] w = [0.00266625 0.99771148 1.99962227] w\_new= [0.00266267 0.99771147 1.99962586]

gradient= [-3.58050500e-04 -1.30705937e-06 3.59357560e-04] w = [0.00266267 0.99771147 1.99962586] w\_new= [0.00265909 0.99771145 1.99962946]

gradient= [-3.57518756e-04 -1.30528467e-06 3.58824041e-04] w = [0.00265909 0.99771145 1.99962946] w\_new= [0.00265551 0.99771144 1.99963305]

gradient= [-3.56987802e-04 -1.30351235e-06 3.58291315e-04] w = [0.00265551 0.99771144 1.99963305] w\_new= [0.00265194 0.99771143 1.99963663]

gradient= [-3.56457638e-04 -1.30174241e-06 3.57759380e-04] w = [0.00265194 0.99771143 1.99963663] w\_new= [0.00264838 0.99771141 1.99964021]

gradient= [-3.55928262e-04 -1.29997484e-06 3.57228236e-04] w = [0.00264838 0.99771141 1.99964021] w\_new= [0.00264482 0.9977114 1.99964378]

gradient= [-3.55399672e-04 -1.29820964e-06 3.56697882e-04] w = [0.00264482 0.9977114 1.99964378] w\_new= [0.00264127 0.99771139 1.99964735]

gradient= [-3.54871868e-04 -1.29644681e-06 3.56168315e-04] w = [0.00264127 0.99771139 1.99964735] w\_new= [0.00263772 0.99771138 1.99965091]

gradient= [-3.54344849e-04 -1.29468634e-06 3.55639536e-04] w = [0.00263772 0.99771138 1.99965091] w\_new= [0.00263417 0.99771136 1.99965446]

gradient= [-3.53818613e-04 -1.29292824e-06 3.55111542e-04] w = [0.00263417 0.99771136 1.99965446] w\_new= [0.00263064 0.99771135 1.99965802]

gradient= [-3.53293160e-04 -1.29117249e-06 3.54584332e-04] w = [0.00263064 0.99771135 1.99965802] w\_new= [0.0026271 0.99771134 1.99966156]

gradient= [-3.52768487e-04 -1.28941910e-06 3.54057907e-04] w = [0.0026271 0.99771134 1.99966156] w\_new= [0.00262357 0.99771132 1.9996651 ]

gradient= [-3.52244595e-04 -1.28766806e-06 3.53532263e-04] w = [0.00262357 0.99771132 1.9996651 ] w\_new= [0.00262005 0.99771131 1.99966864]

gradient= [-3.51721481e-04 -1.28591937e-06 3.53007401e-04] w = [0.00262005 0.99771131 1.99966864] w\_new= [0.00261654 0.9977113 1.99967217]

gradient= [-3.51199145e-04 -1.28417302e-06 3.52483318e-04] w = [0.00261654 0.9977113 1.99967217] w\_new= [0.00261302 0.99771128 1.99967569]

gradient= [-3.50677585e-04 -1.28242902e-06 3.51960014e-04] w = [0.00261302 0.99771128 1.99967569] w\_new= [0.00260952 0.99771127 1.99967921]

gradient= [-3.50156801e-04 -1.28068735e-06 3.51437488e-04] w = [0.00260952 0.99771127 1.99967921] w\_new= [0.00260601 0.99771126 1.99968273]

gradient= [-3.49636790e-04 -1.27894802e-06 3.50915738e-04] w = [0.00260601 0.99771126 1.99968273] w\_new= [0.00260252 0.99771125 1.99968624]

gradient= [-3.49117553e-04 -1.27721103e-06 3.50394764e-04] w = [0.00260252 0.99771125 1.99968624] w\_new= [0.00259903 0.99771123 1.99968974]

gradient= [-3.48599088e-04 -1.27547636e-06 3.49874564e-04] w = [0.00259903 0.99771123 1.99968974] w\_new= [0.00259554 0.99771122 1.99969324]

gradient= [-3.48081393e-04 -1.27374403e-06 3.49355137e-04] w = [0.00259554 0.99771122 1.99969324] w\_new= [0.00259206 0.99771121 1.99969673]

gradient= [-3.47564467e-04 -1.27201401e-06 3.48836481e-04] w = [0.00259206 0.99771121 1.99969673] w\_new= [0.00258858 0.9977112 1.99970022]

gradient= [-3.47048310e-04 -1.27028632e-06 3.48318597e-04] w = [0.00258858 0.9977112 1.99970022] w\_new= [0.00258511 0.99771118 1.9997037 ]

gradient= [-3.46532921e-04 -1.26856094e-06 3.47801481e-04] w = [0.00258511 0.99771118 1.9997037 ] w\_new= [0.00258165 0.99771117 1.99970718]

gradient= [-3.46018297e-04 -1.26683788e-06 3.47285135e-04] w = [0.00258165 0.99771117 1.99970718] w\_new= [0.00257819 0.99771116 1.99971065]

gradient= [-3.45504438e-04 -1.26511713e-06 3.46769555e-04] w = [0.00257819 0.99771116 1.99971065] w\_new= [0.00257473 0.99771114 1.99971412]

gradient= [-3.44991343e-04 -1.26339869e-06 3.46254742e-04] w = [0.00257473 0.99771114 1.99971412] w\_new= [0.00257128 0.99771113 1.99971758]

gradient= [-3.44479011e-04 -1.26168255e-06 3.45740694e-04] w = [0.00257128 0.99771113 1.99971758] w\_new= [0.00256784 0.99771112 1.99972104]

gradient= [-3.43967440e-04 -1.25996872e-06 3.45227409e-04] w = [0.00256784 0.99771112 1.99972104] w\_new= [0.0025644 0.99771111 1.99972449]

gradient= [-3.43456630e-04 -1.25825719e-06 3.44714887e-04] w = [0.0025644 0.99771111 1.99972449] w\_new= [0.00256096 0.99771109 1.99972794]

gradient= [-3.42946579e-04 -1.25654795e-06 3.44203127e-04] w = [0.00256096 0.99771109 1.99972794] w\_new= [0.00255754 0.99771108 1.99973138]

gradient= [-3.42437286e-04 -1.25484101e-06 3.43692127e-04] w = [0.00255754 0.99771108 1.99973138] w\_new= [0.00255411 0.99771107 1.99973482]

gradient= [-3.41928750e-04 -1.25313635e-06 3.43181887e-04] w = [0.00255411 0.99771107 1.99973482] w\_new= [0.00255069 0.99771106 1.99973825]

gradient= [-3.41420970e-04 -1.25143399e-06 3.42672404e-04] w = [0.00255069 0.99771106 1.99973825] w\_new= [0.00254728 0.99771104 1.99974168]

gradient= [-3.40913945e-04 -1.24973390e-06 3.42163679e-04] w = [0.00254728 0.99771104 1.99974168] w\_new= [0.00254387 0.99771103 1.9997451 ]

gradient= [-3.40407673e-04 -1.24803610e-06 3.41655709e-04] w = [0.00254387 0.99771103 1.9997451 ] w\_new= [0.00254046 0.99771102 1.99974852]

gradient= [-3.39902154e-04 -1.24634058e-06 3.41148495e-04] w = [0.00254046 0.99771102 1.99974852] w\_new= [0.00253707 0.99771101 1.99975193]

gradient= [-3.39397387e-04 -1.24464733e-06 3.40642034e-04] w = [0.00253707 0.99771101 1.99975193] w\_new= [0.00253367 0.99771099 1.99975533]

gradient= [-3.38893369e-04 -1.24295636e-06 3.40136325e-04] w = [0.00253367 0.99771099 1.99975533] w\_new= [0.00253028 0.99771098 1.99975874]

gradient= [-3.38390101e-04 -1.24126765e-06 3.39631368e-04] w = [0.00253028 0.99771098 1.99975874] w\_new= [0.0025269 0.99771097 1.99976213]

gradient= [-3.37887581e-04 -1.23958121e-06 3.39127162e-04] w = [0.0025269 0.99771097 1.99976213] w\_new= [0.00252352 0.99771096 1.99976552]

gradient= [-3.37385807e-04 -1.23789703e-06 3.38623704e-04] w = [0.00252352 0.99771096 1.99976552] w\_new= [0.00252015 0.99771094 1.99976891]

gradient= [-3.36884780e-04 -1.23621511e-06 3.38120995e-04] w = [0.00252015 0.99771094 1.99976891] w\_new= [0.00251678 0.99771093 1.99977229]

gradient= [-3.36384497e-04 -1.23453545e-06 3.37619032e-04] w = [0.00251678 0.99771093 1.99977229] w\_new= [0.00251341 0.99771092 1.99977567]

gradient= [-3.35884958e-04 -1.23285805e-06 3.37117816e-04] w = [0.00251341 0.99771092 1.99977567] w\_new= [0.00251005 0.99771091 1.99977904]

gradient= [-3.35386161e-04 -1.23118289e-06 3.36617344e-04] w = [0.00251005 0.99771091 1.99977904] w\_new= [0.0025067 0.9977109 1.9997824]

gradient= [-3.34888106e-04 -1.22950999e-06 3.36117616e-04] w = [0.0025067 0.9977109 1.9997824] w\_new= [0.00250335 0.99771088 1.99978577]

gradient= [-3.34390791e-04 -1.22783933e-06 3.35618630e-04] w = [0.00250335 0.99771088 1.99978577] w\_new= [0.00250001 0.99771087 1.99978912]

gradient= [-3.33894215e-04 -1.22617091e-06 3.35120386e-04] w = [0.00250001 0.99771087 1.99978912] w\_new= [0.00249667 0.99771086 1.99979247]

gradient= [-3.33398377e-04 -1.22450473e-06 3.34622882e-04] w = [0.00249667 0.99771086 1.99979247] w\_new= [0.00249333 0.99771085 1.99979582]

gradient= [-3.32903276e-04 -1.22284079e-06 3.34126117e-04] w = [0.00249333 0.99771085 1.99979582] w\_new= [0.00249001 0.99771083 1.99979916]

gradient= [-3.32408911e-04 -1.22117908e-06 3.33630090e-04] w = [0.00249001 0.99771083 1.99979916] w\_new= [0.00248668 0.99771082 1.9998025 ]

gradient= [-3.31915281e-04 -1.21951960e-06 3.33134801e-04] w = [0.00248668 0.99771082 1.9998025 ] w\_new= [0.00248336 0.99771081 1.99980583]

gradient= [-3.31422385e-04 -1.21786234e-06 3.32640247e-04] w = [0.00248336 0.99771081 1.99980583] w\_new= [0.00248005 0.9977108 1.99980915]

gradient= [-3.30930221e-04 -1.21620732e-06 3.32146428e-04] w = [0.00248005 0.9977108 1.99980915] w\_new= [0.00247674 0.99771079 1.99981248]

gradient= [-3.30438788e-04 -1.21455451e-06 3.31653343e-04] w = [0.00247674 0.99771079 1.99981248] w\_new= [0.00247343 0.99771077 1.99981579]

gradient= [-3.29948086e-04 -1.21290392e-06 3.31160990e-04] w = [0.00247343 0.99771077 1.99981579] w\_new= [0.00247013 0.99771076 1.9998191 ]

gradient= [-3.29458114e-04 -1.21125555e-06 3.30669369e-04] w = [0.00247013 0.99771076 1.9998191 ] w\_new= [0.00246684 0.99771075 1.99982241]

gradient= [-3.28968869e-04 -1.20960939e-06 3.30178479e-04] w = [0.00246684 0.99771075 1.99982241] w\_new= [0.00246355 0.99771074 1.99982571]

gradient= [-3.28480352e-04 -1.20796544e-06 3.29688318e-04] w = [0.00246355 0.99771074 1.99982571] w\_new= [0.00246027 0.99771072 1.99982901]

gradient= [-3.27992561e-04 -1.20632370e-06 3.29198885e-04] w = [0.00246027 0.99771072 1.99982901] w\_new= [0.00245699 0.99771071 1.9998323 ]

gradient= [-3.27505495e-04 -1.20468416e-06 3.28710179e-04] w = [0.00245699 0.99771071 1.9998323 ] w\_new= [0.00245371 0.9977107 1.99983559]

gradient= [-3.27019153e-04 -1.20304683e-06 3.28222199e-04] w = [0.00245371 0.9977107 1.99983559] w\_new= [0.00245044 0.99771069 1.99983887]

gradient= [-3.26533533e-04 -1.20141169e-06 3.27734945e-04] w = [0.00245044 0.99771069 1.99983887] w\_new= [0.00244718 0.99771068 1.99984215]

gradient= [-3.26048636e-04 -1.19977875e-06 3.27248414e-04] w = [0.00244718 0.99771068 1.99984215] w\_new= [0.00244391 0.99771066 1.99984542]

gradient= [-3.25564459e-04 -1.19814799e-06 3.26762607e-04] w = [0.00244391 0.99771066 1.99984542] w\_new= [0.00244066 0.99771065 1.99984869]

gradient= [-3.25081001e-04 -1.19651943e-06 3.26277521e-04] w = [0.00244066 0.99771065 1.99984869] w\_new= [0.00243741 0.99771064 1.99985195]

gradient= [-3.24598262e-04 -1.19489306e-06 3.25793156e-04] w = [0.00243741 0.99771064 1.99985195] w\_new= [0.00243416 0.99771063 1.99985521]

gradient= [-3.24116241e-04 -1.19326886e-06 3.25309510e-04] w = [0.00243416 0.99771063 1.99985521] w\_new= [0.00243092 0.99771062 1.99985846]

gradient= [-3.23634936e-04 -1.19164685e-06 3.24826583e-04] w = [0.00243092 0.99771062 1.99985846] w\_new= [0.00242768 0.9977106 1.99986171]

gradient= [-3.23154347e-04 -1.19002702e-06 3.24344374e-04] w = [0.00242768 0.9977106 1.99986171] w\_new= [0.00242445 0.99771059 1.99986495]

gradient= [-3.22674471e-04 -1.18840936e-06 3.23862881e-04] w = [0.00242445 0.99771059 1.99986495] w\_new= [0.00242123 0.99771058 1.99986819]

gradient= [-3.22195309e-04 -1.18679388e-06 3.23382103e-04] w = [0.00242123 0.99771058 1.99986819] w\_new= [0.002418 0.99771057 1.99987143]

gradient= [-3.21716859e-04 -1.18518056e-06 3.22902040e-04] w = [0.002418 0.99771057 1.99987143] w\_new= [0.00241479 0.99771056 1.99987466]

gradient= [-3.21239120e-04 -1.18356941e-06 3.22422690e-04] w = [0.00241479 0.99771056 1.99987466] w\_new= [0.00241158 0.99771055 1.99987788]

gradient= [-3.20762092e-04 -1.18196042e-06 3.21944052e-04] w = [0.00241158 0.99771055 1.99987788] w\_new= [0.00240837 0.99771053 1.9998811 ]

gradient= [-3.20285772e-04 -1.18035360e-06 3.21466125e-04] w = [0.00240837 0.99771053 1.9998811 ] w\_new= [0.00240516 0.99771052 1.99988431]

gradient= [-3.19810160e-04 -1.17874893e-06 3.20988909e-04] w = [0.00240516 0.99771052 1.99988431] w\_new= [0.00240197 0.99771051 1.99988752]

gradient= [-3.19335255e-04 -1.17714641e-06 3.20512401e-04] w = [0.00240197 0.99771051 1.99988752] w\_new= [0.00239877 0.9977105 1.99989073]

gradient= [-3.18861056e-04 -1.17554605e-06 3.20036602e-04] w = [0.00239877 0.9977105 1.99989073] w\_new= [0.00239558 0.99771049 1.99989393]

gradient= [-3.18387561e-04 -1.17394784e-06 3.19561509e-04] w = [0.00239558 0.99771049 1.99989393] w\_new= [0.0023924 0.99771047 1.99989712]

gradient= [-3.17914770e-04 -1.17235177e-06 3.19087122e-04] w = [0.0023924 0.99771047 1.99989712] w\_new= [0.00238922 0.99771046 1.99990032]

gradient= [-3.17442682e-04 -1.17075785e-06 3.18613440e-04] w = [0.00238922 0.99771046 1.99990032] w\_new= [0.00238605 0.99771045 1.9999035 ]

gradient= [-3.16971296e-04 -1.16916607e-06 3.18140462e-04] w = [0.00238605 0.99771045 1.9999035 ] w\_new= [0.00238288 0.99771044 1.99990668]

gradient= [-3.16500610e-04 -1.16757642e-06 3.17668186e-04] w = [0.00238288 0.99771044 1.99990668] w\_new= [0.00237971 0.99771043 1.99990986]

gradient= [-3.16030623e-04 -1.16598891e-06 3.17196612e-04] w = [0.00237971 0.99771043 1.99990986] w\_new= [0.00237655 0.99771042 1.99991303]

gradient= [-3.15561335e-04 -1.16440354e-06 3.16725739e-04] w = [0.00237655 0.99771042 1.99991303] w\_new= [0.0023734 0.9977104 1.9999162]

gradient= [-3.15092745e-04 -1.16282029e-06 3.16255565e-04] w = [0.0023734 0.9977104 1.9999162] w\_new= [0.00237025 0.99771039 1.99991936]

gradient= [-3.14624851e-04 -1.16123917e-06 3.15786090e-04] w = [0.00237025 0.99771039 1.99991936] w\_new= [0.0023671 0.99771038 1.99992252]

gradient= [-3.14157652e-04 -1.15966017e-06 3.15317312e-04] w = [0.0023671 0.99771038 1.99992252] w\_new= [0.00236396 0.99771037 1.99992567]

gradient= [-3.13691148e-04 -1.15808329e-06 3.14849231e-04] w = [0.00236396 0.99771037 1.99992567] w\_new= [0.00236082 0.99771036 1.99992882]

gradient= [-3.13225337e-04 -1.15650854e-06 3.14381845e-04] w = [0.00236082 0.99771036 1.99992882] w\_new= [0.00235769 0.99771035 1.99993196]

gradient= [-3.12760218e-04 -1.15493589e-06 3.13915154e-04] w = [0.00235769 0.99771035 1.99993196] w\_new= [0.00235456 0.99771034 1.9999351 ]

gradient= [-3.12295790e-04 -1.15336536e-06 3.13449156e-04] w = [0.00235456 0.99771034 1.9999351 ] w\_new= [0.00235144 0.99771032 1.99993824]

gradient= [-3.11832053e-04 -1.15179694e-06 3.12983850e-04] w = [0.00235144 0.99771032 1.99993824] w\_new= [0.00234832 0.99771031 1.99994137]

gradient= [-3.11369005e-04 -1.15023063e-06 3.12519236e-04] w = [0.00234832 0.99771031 1.99994137] w\_new= [0.00234521 0.9977103 1.99994449]

gradient= [-3.10906645e-04 -1.14866642e-06 3.12055311e-04] w = [0.00234521 0.9977103 1.99994449] w\_new= [0.0023421 0.99771029 1.99994761]

gradient= [-3.10444972e-04 -1.14710431e-06 3.11592077e-04] w = [0.0023421 0.99771029 1.99994761] w\_new= [0.00233899 0.99771028 1.99995073]

gradient= [-3.09983985e-04 -1.14554430e-06 3.11129530e-04] w = [0.00233899 0.99771028 1.99995073] w\_new= [0.00233589 0.99771027 1.99995384]

gradient= [-3.09523684e-04 -1.14398638e-06 3.10667670e-04] w = [0.00233589 0.99771027 1.99995384] w\_new= [0.0023328 0.99771025 1.99995695]

gradient= [-3.09064066e-04 -1.14243056e-06 3.10206497e-04] w = [0.0023328 0.99771025 1.99995695] w\_new= [0.00232971 0.99771024 1.99996005]

gradient= [-3.08605132e-04 -1.14087683e-06 3.09746009e-04] w = [0.00232971 0.99771024 1.99996005] w\_new= [0.00232662 0.99771023 1.99996315]

gradient= [-3.08146879e-04 -1.13932518e-06 3.09286205e-04] w = [0.00232662 0.99771023 1.99996315] w\_new= [0.00232354 0.99771022 1.99996624]

gradient= [-3.07689308e-04 -1.13777562e-06 3.08827084e-04] w = [0.00232354 0.99771022 1.99996624] w\_new= [0.00232046 0.99771021 1.99996933]

gradient= [-3.07232416e-04 -1.13622815e-06 3.08368645e-04] w = [0.00232046 0.99771021 1.99996933] w\_new= [0.00231739 0.9977102 1.99997241]

gradient= [-3.06776204e-04 -1.13468275e-06 3.07910887e-04] w = [0.00231739 0.9977102 1.99997241] w\_new= [0.00231432 0.99771019 1.99997549]

gradient= [-3.06320670e-04 -1.13313943e-06 3.07453809e-04] w = [0.00231432 0.99771019 1.99997549] w\_new= [0.00231126 0.99771018 1.99997857]

gradient= [-3.05865812e-04 -1.13159818e-06 3.06997410e-04] w = [0.00231126 0.99771018 1.99997857] w\_new= [0.0023082 0.99771016 1.99998164]

gradient= [-3.05411631e-04 -1.13005900e-06 3.06541690e-04] w = [0.0023082 0.99771016 1.99998164] w\_new= [0.00230515 0.99771015 1.9999847 ]

gradient= [-3.04958124e-04 -1.12852189e-06 3.06086646e-04] w = [0.00230515 0.99771015 1.9999847 ] w\_new= [0.0023021 0.99771014 1.99998776]

gradient= [-3.04505291e-04 -1.12698685e-06 3.05632278e-04] w = [0.0023021 0.99771014 1.99998776] w\_new= [0.00229905 0.99771013 1.99999082]

gradient= [-3.04053132e-04 -1.12545387e-06 3.05178586e-04] w = [0.00229905 0.99771013 1.99999082] w\_new= [0.00229601 0.99771012 1.99999387]

gradient= [-3.03601644e-04 -1.12392294e-06 3.04725567e-04] w = [0.00229601 0.99771012 1.99999387] w\_new= [0.00229298 0.99771011 1.99999692]

gradient= [-3.03150827e-04 -1.12239408e-06 3.04273221e-04] w = [0.00229298 0.99771011 1.99999692] w\_new= [0.00228994 0.9977101 1.99999996]

gradient= [-3.02700681e-04 -1.12086727e-06 3.03821548e-04] w = [0.00228994 0.9977101 1.99999996] w\_new= [0.00228692 0.99771009 2.000003 ]

gradient= [-3.02251203e-04 -1.11934251e-06 3.03370545e-04] w = [0.00228692 0.99771009 2.000003 ] w\_new= [0.00228389 0.99771007 2.00000603]

gradient= [-3.01802393e-04 -1.11781980e-06 3.02920213e-04] w = [0.00228389 0.99771007 2.00000603] w\_new= [0.00228088 0.99771006 2.00000906]

gradient= [-3.01354250e-04 -1.11629914e-06 3.02470549e-04] w = [0.00228088 0.99771006 2.00000906] w\_new= [0.00227786 0.99771005 2.00001209]

gradient= [-3.00906773e-04 -1.11478052e-06 3.02021554e-04] w = [0.00227786 0.99771005 2.00001209] w\_new= [0.00227485 0.99771004 2.00001511]

gradient= [-3.00459961e-04 -1.11326394e-06 3.01573225e-04] w = [0.00227485 0.99771004 2.00001511] w\_new= [0.00227185 0.99771003 2.00001812]

gradient= [-3.00013813e-04 -1.11174940e-06 3.01125563e-04] w = [0.00227185 0.99771003 2.00001812] w\_new= [0.00226885 0.99771002 2.00002113]

gradient= [-2.99568328e-04 -1.11023690e-06 3.00678565e-04] w = [0.00226885 0.99771002 2.00002113] w\_new= [0.00226585 0.99771001 2.00002414]

gradient= [-2.99123505e-04 -1.10872643e-06 3.00232232e-04] w = [0.00226585 0.99771001 2.00002414] w\_new= [0.00226286 0.99771 2.00002714]

gradient= [-2.98679343e-04 -1.10721798e-06 2.99786561e-04] w = [0.00226286 0.99771 2.00002714] w\_new= [0.00225987 0.99770998 2.00003014]

gradient= [-2.98235842e-04 -1.10571157e-06 2.99341553e-04] w = [0.00225987 0.99770998 2.00003014] w\_new= [0.00225689 0.99770997 2.00003313]

gradient= [-2.97792999e-04 -1.10420718e-06 2.98897206e-04] w = [0.00225689 0.99770997 2.00003313] w\_new= [0.00225391 0.99770996 2.00003612]

gradient= [-2.97350814e-04 -1.10270481e-06 2.98453519e-04] w = [0.00225391 0.99770996 2.00003612] w\_new= [0.00225094 0.99770995 2.00003911]

gradient= [-2.96909287e-04 -1.10120446e-06 2.98010491e-04] w = [0.00225094 0.99770995 2.00003911] w\_new= [0.00224797 0.99770994 2.00004209]

gradient= [-2.96468415e-04 -1.09970613e-06 2.97568121e-04] w = [0.00224797 0.99770994 2.00004209] w\_new= [0.00224501 0.99770993 2.00004506]

gradient= [-2.96028199e-04 -1.09820981e-06 2.97126409e-04] w = [0.00224501 0.99770993 2.00004506] w\_new= [0.00224205 0.99770992 2.00004803]

gradient= [-2.95588637e-04 -1.09671551e-06 2.96685352e-04] w = [0.00224205 0.99770992 2.00004803] w\_new= [0.00223909 0.99770991 2.000051 ]

gradient= [-2.95149728e-04 -1.09522321e-06 2.96244951e-04] w = [0.00223909 0.99770991 2.000051 ] w\_new= [0.00223614 0.9977099 2.00005396]

gradient= [-2.94711471e-04 -1.09373292e-06 2.95805204e-04] w = [0.00223614 0.9977099 2.00005396] w\_new= [0.00223319 0.99770989 2.00005692]

gradient= [-2.94273866e-04 -1.09224463e-06 2.95366110e-04] w = [0.00223319 0.99770989 2.00005692] w\_new= [0.00223025 0.99770987 2.00005988]

gradient= [-2.93836910e-04 -1.09075834e-06 2.94927669e-04] w = [0.00223025 0.99770987 2.00005988] w\_new= [0.00222731 0.99770986 2.00006282]

gradient= [-2.93400605e-04 -1.08927405e-06 2.94489879e-04] w = [0.00222731 0.99770986 2.00006282] w\_new= [0.00222438 0.99770985 2.00006577]

gradient= [-2.92964947e-04 -1.08779176e-06 2.94052739e-04] w = [0.00222438 0.99770985 2.00006577] w\_new= [0.00222145 0.99770984 2.00006871]

gradient= [-2.92529937e-04 -1.08631146e-06 2.93616248e-04] w = [0.00222145 0.99770984 2.00006871] w\_new= [0.00221852 0.99770983 2.00007165]

gradient= [-2.92095573e-04 -1.08483315e-06 2.93180407e-04] w = [0.00221852 0.99770983 2.00007165] w\_new= [0.0022156 0.99770982 2.00007458]

gradient= [-2.91661855e-04 -1.08335682e-06 2.92745212e-04] w = [0.0022156 0.99770982 2.00007458] w\_new= [0.00221268 0.99770981 2.00007751]

gradient= [-2.91228781e-04 -1.08188248e-06 2.92310664e-04] w = [0.00221268 0.99770981 2.00007751] w\_new= [0.00220977 0.9977098 2.00008043]

gradient= [-2.90796351e-04 -1.08041012e-06 2.91876761e-04] w = [0.00220977 0.9977098 2.00008043] w\_new= [0.00220686 0.99770979 2.00008335]

gradient= [-2.90364564e-04 -1.07893975e-06 2.91443504e-04] w = [0.00220686 0.99770979 2.00008335] w\_new= [0.00220396 0.99770978 2.00008626]

gradient= [-2.89933418e-04 -1.07747135e-06 2.91010889e-04] w = [0.00220396 0.99770978 2.00008626] w\_new= [0.00220106 0.99770977 2.00008917]

gradient= [-2.89502913e-04 -1.07600492e-06 2.90578918e-04] w = [0.00220106 0.99770977 2.00008917] w\_new= [0.00219817 0.99770976 2.00009208]

gradient= [-2.89073047e-04 -1.07454047e-06 2.90147588e-04] w = [0.00219817 0.99770976 2.00009208] w\_new= [0.00219528 0.99770975 2.00009498]

gradient= [-2.88643820e-04 -1.07307798e-06 2.89716898e-04] w = [0.00219528 0.99770975 2.00009498] w\_new= [0.00219239 0.99770973 2.00009788]

gradient= [-2.88215231e-04 -1.07161746e-06 2.89286849e-04] w = [0.00219239 0.99770973 2.00009788] w\_new= [0.00218951 0.99770972 2.00010077]

gradient= [-2.87787279e-04 -1.07015891e-06 2.88857438e-04] w = [0.00218951 0.99770972 2.00010077] w\_new= [0.00218663 0.99770971 2.00010366]

gradient= [-2.87359963e-04 -1.06870231e-06 2.88428666e-04] w = [0.00218663 0.99770971 2.00010366] w\_new= [0.00218376 0.9977097 2.00010654]

gradient= [-2.86933282e-04 -1.06724768e-06 2.88000530e-04] w = [0.00218376 0.9977097 2.00010654] w\_new= [0.00218089 0.99770969 2.00010942]

gradient= [-2.86507235e-04 -1.06579500e-06 2.87573030e-04] w = [0.00218089 0.99770969 2.00010942] w\_new= [0.00217802 0.99770968 2.0001123 ]

gradient= [-2.86081821e-04 -1.06434427e-06 2.87146165e-04] w = [0.00217802 0.99770968 2.0001123 ] w\_new= [0.00217516 0.99770967 2.00011517]

gradient= [-2.85657039e-04 -1.06289550e-06 2.86719934e-04] w = [0.00217516 0.99770967 2.00011517] w\_new= [0.0021723 0.99770966 2.00011804]

gradient= [-2.85232888e-04 -1.06144867e-06 2.86294337e-04] w = [0.0021723 0.99770966 2.00011804] w\_new= [0.00216945 0.99770965 2.0001209 ]

gradient= [-2.84809368e-04 -1.06000379e-06 2.85869372e-04] w = [0.00216945 0.99770965 2.0001209 ] w\_new= [0.0021666 0.99770964 2.00012376]

gradient= [-2.84386477e-04 -1.05856085e-06 2.85445038e-04] w = [0.0021666 0.99770964 2.00012376] w\_new= [0.00216376 0.99770963 2.00012661]

gradient= [-2.83964214e-04 -1.05711986e-06 2.85021334e-04] w = [0.00216376 0.99770963 2.00012661] w\_new= [0.00216092 0.99770962 2.00012946]

gradient= [-2.83542579e-04 -1.05568080e-06 2.84598260e-04] w = [0.00216092 0.99770962 2.00012946] w\_new= [0.00215808 0.99770961 2.00013231]

gradient= [-2.83121570e-04 -1.05424367e-06 2.84175814e-04] w = [0.00215808 0.99770961 2.00013231] w\_new= [0.00215525 0.9977096 2.00013515]

gradient= [-2.82701187e-04 -1.05280848e-06 2.83753995e-04] w = [0.00215525 0.9977096 2.00013515] w\_new= [0.00215243 0.99770959 2.00013799]

gradient= [-2.82281428e-04 -1.05137522e-06 2.83332804e-04] w = [0.00215243 0.99770959 2.00013799] w\_new= [0.0021496 0.99770958 2.00014082]

gradient= [-2.81862294e-04 -1.04994389e-06 2.82912238e-04] w = [0.0021496 0.99770958 2.00014082] w\_new= [0.00214679 0.99770956 2.00014365]

gradient= [-2.81443782e-04 -1.04851448e-06 2.82492296e-04] w = [0.00214679 0.99770956 2.00014365] w\_new= [0.00214397 0.99770955 2.00014648]

gradient= [-2.81025892e-04 -1.04708699e-06 2.82072979e-04] w = [0.00214397 0.99770955 2.00014648] w\_new= [0.00214116 0.99770954 2.0001493 ]

gradient= [-2.80608623e-04 -1.04566143e-06 2.81654284e-04] w = [0.00214116 0.99770954 2.0001493 ] w\_new= [0.00213835 0.99770953 2.00015211]

gradient= [-2.80191973e-04 -1.04423778e-06 2.81236211e-04] w = [0.00213835 0.99770953 2.00015211] w\_new= [0.00213555 0.99770952 2.00015492]

gradient= [-2.79775943e-04 -1.04281605e-06 2.80818760e-04] w = [0.00213555 0.99770952 2.00015492] w\_new= [0.00213275 0.99770951 2.00015773]

gradient= [-2.79360532e-04 -1.04139623e-06 2.80401928e-04] w = [0.00213275 0.99770951 2.00015773] w\_new= [0.00212996 0.9977095 2.00016054]

gradient= [-2.78945737e-04 -1.03997832e-06 2.79985715e-04] w = [0.00212996 0.9977095 2.00016054] w\_new= [0.00212717 0.99770949 2.00016334]

gradient= [-2.78531559e-04 -1.03856232e-06 2.79570121e-04] w = [0.00212717 0.99770949 2.00016334] w\_new= [0.00212439 0.99770948 2.00016613]

gradient= [-2.78117996e-04 -1.03714822e-06 2.79155144e-04] w = [0.00212439 0.99770948 2.00016613] w\_new= [0.00212161 0.99770947 2.00016892]

gradient= [-2.77705048e-04 -1.03573602e-06 2.78740784e-04] w = [0.00212161 0.99770947 2.00016892] w\_new= [0.00211883 0.99770946 2.00017171]

gradient= [-2.77292713e-04 -1.03432572e-06 2.78327039e-04] w = [0.00211883 0.99770946 2.00017171] w\_new= [0.00211606 0.99770945 2.00017449]

gradient= [-2.76880991e-04 -1.03291733e-06 2.77913909e-04] w = [0.00211606 0.99770945 2.00017449] w\_new= [0.00211329 0.99770944 2.00017727]

gradient= [-2.76469881e-04 -1.03151082e-06 2.77501392e-04] w = [0.00211329 0.99770944 2.00017727] w\_new= [0.00211052 0.99770943 2.00018005]

gradient= [-2.76059382e-04 -1.03010621e-06 2.77089488e-04] w = [0.00211052 0.99770943 2.00018005] w\_new= [0.00210776 0.99770942 2.00018282]

gradient= [-2.75649492e-04 -1.02870349e-06 2.76678196e-04] w = [0.00210776 0.99770942 2.00018282] w\_new= [0.002105 0.99770941 2.00018559]

gradient= [-2.75240212e-04 -1.02730265e-06 2.76267514e-04] w = [0.002105 0.99770941 2.00018559] w\_new= [0.00210225 0.9977094 2.00018835]

gradient= [-2.74831540e-04 -1.02590370e-06 2.75857443e-04] w = [0.00210225 0.9977094 2.00018835] w\_new= [0.0020995 0.99770939 2.00019111]

gradient= [-2.74423475e-04 -1.02450663e-06 2.75447981e-04] w = [0.0020995 0.99770939 2.00019111] w\_new= [0.00209676 0.99770938 2.00019386]

gradient= [-2.74016016e-04 -1.02311144e-06 2.75039127e-04] w = [0.00209676 0.99770938 2.00019386] w\_new= [0.00209402 0.99770937 2.00019661]

gradient= [-2.73609163e-04 -1.02171813e-06 2.74630881e-04] w = [0.00209402 0.99770937 2.00019661] w\_new= [0.00209128 0.99770936 2.00019936]

gradient= [-2.73202914e-04 -1.02032670e-06 2.74223241e-04] w = [0.00209128 0.99770936 2.00019936] w\_new= [0.00208855 0.99770935 2.0002021 ]

gradient= [-2.72797269e-04 -1.01893713e-06 2.73816206e-04] w = [0.00208855 0.99770935 2.0002021 ] w\_new= [0.00208582 0.99770934 2.00020484]

gradient= [-2.72392226e-04 -1.01754944e-06 2.73409776e-04] w = [0.00208582 0.99770934 2.00020484] w\_new= [0.0020831 0.99770933 2.00020757]

gradient= [-2.71987786e-04 -1.01616361e-06 2.73003950e-04] w = [0.0020831 0.99770933 2.00020757] w\_new= [0.00208038 0.99770932 2.0002103 ]

gradient= [-2.71583946e-04 -1.01477965e-06 2.72598726e-04] w = [0.00208038 0.99770932 2.0002103 ] w\_new= [0.00207766 0.99770931 2.00021303]

gradient= [-2.71180707e-04 -1.01339755e-06 2.72194104e-04] w = [0.00207766 0.99770931 2.00021303] w\_new= [0.00207495 0.9977093 2.00021575]

gradient= [-2.70778066e-04 -1.01201731e-06 2.71790084e-04] w = [0.00207495 0.9977093 2.00021575] w\_new= [0.00207224 0.99770929 2.00021847]

gradient= [-2.70376024e-04 -1.01063892e-06 2.71386663e-04] w = [0.00207224 0.99770929 2.00021847] w\_new= [0.00206954 0.99770928 2.00022118]

gradient= [-2.69974579e-04 -1.00926239e-06 2.70983842e-04] w = [0.00206954 0.99770928 2.00022118] w\_new= [0.00206684 0.99770927 2.00022389]

gradient= [-2.69573731e-04 -1.00788772e-06 2.70581619e-04] w = [0.00206684 0.99770927 2.00022389] w\_new= [0.00206414 0.99770926 2.0002266 ]

gradient= [-2.69173478e-04 -1.00651489e-06 2.70179993e-04] w = [0.00206414 0.99770926 2.0002266 ] w\_new= [0.00206145 0.99770925 2.0002293 ]

gradient= [-2.68773820e-04 -1.00514391e-06 2.69778964e-04] w = [0.00206145 0.99770925 2.0002293 ] w\_new= [0.00205877 0.99770924 2.000232 ]

gradient= [-2.68374756e-04 -1.00377478e-06 2.69378531e-04] w = [0.00205877 0.99770924 2.000232 ] w\_new= [0.00205608 0.99770923 2.00023469]

gradient= [-2.67976285e-04 -1.00240749e-06 2.68978692e-04] w = [0.00205608 0.99770923 2.00023469] w\_new= [0.0020534 0.99770922 2.00023738]

gradient= [-2.67578406e-04 -1.00104204e-06 2.68579448e-04] w = [0.0020534 0.99770922 2.00023738] w\_new= [0.00205073 0.99770921 2.00024007]

gradient= [-2.67181118e-04 -9.99678425e-07 2.68180796e-04] w = [0.00205073 0.99770921 2.00024007] w\_new= [0.00204805 0.9977092 2.00024275]

gradient= [-2.66784420e-04 -9.98316648e-07 2.67782737e-04] w = [0.00204805 0.9977092 2.00024275] w\_new= [0.00204539 0.99770919 2.00024543]

gradient= [-2.66388312e-04 -9.96956703e-07 2.67385268e-04] w = [0.00204539 0.99770919 2.00024543] w\_new= [0.00204272 0.99770918 2.0002481 ]

gradient= [-2.65992792e-04 -9.95598589e-07 2.66988391e-04] w = [0.00204272 0.99770918 2.0002481 ] w\_new= [0.00204006 0.99770917 2.00025077]

gradient= [-2.65597860e-04 -9.94242303e-07 2.66592102e-04] w = [0.00204006 0.99770917 2.00025077] w\_new= [0.00203741 0.99770916 2.00025344]

gradient= [-2.65203514e-04 -9.92887842e-07 2.66196402e-04] w = [0.00203741 0.99770916 2.00025344] w\_new= [0.00203475 0.99770915 2.0002561 ]

gradient= [-2.64809755e-04 -9.91535204e-07 2.65801290e-04] w = [0.00203475 0.99770915 2.0002561 ] w\_new= [0.00203211 0.99770914 2.00025876]

gradient= [-2.64416581e-04 -9.90184387e-07 2.65406765e-04] w = [0.00203211 0.99770914 2.00025876] w\_new= [0.00202946 0.99770913 2.00026141]

gradient= [-2.64023991e-04 -9.88835389e-07 2.65012826e-04] w = [0.00202946 0.99770913 2.00026141] w\_new= [0.00202682 0.99770912 2.00026406]

gradient= [-2.63631984e-04 -9.87488206e-07 2.64619472e-04] w = [0.00202682 0.99770912 2.00026406] w\_new= [0.00202419 0.99770911 2.00026671]

gradient= [-2.63240559e-04 -9.86142837e-07 2.64226702e-04] w = [0.00202419 0.99770911 2.00026671] w\_new= [0.00202155 0.9977091 2.00026935]

gradient= [-2.62849716e-04 -9.84799279e-07 2.63834516e-04] w = [0.00202155 0.9977091 2.00026935] w\_new= [0.00201892 0.99770909 2.00027199]

gradient= [-2.62459454e-04 -9.83457529e-07 2.63442912e-04] w = [0.00201892 0.99770909 2.00027199] w\_new= [0.0020163 0.99770908 2.00027462]

gradient= [-2.62069772e-04 -9.82117586e-07 2.63051889e-04] w = [0.0020163 0.99770908 2.00027462] w\_new= [0.00201368 0.99770907 2.00027725]

gradient= [-2.61680668e-04 -9.80779446e-07 2.62661448e-04] w = [0.00201368 0.99770907 2.00027725] w\_new= [0.00201106 0.99770906 2.00027988]

gradient= [-2.61292143e-04 -9.79443109e-07 2.62271586e-04] w = [0.00201106 0.99770906 2.00027988] w\_new= [0.00200845 0.99770905 2.0002825 ]

gradient= [-2.60904195e-04 -9.78108570e-07 2.61882304e-04] w = [0.00200845 0.99770905 2.0002825 ] w\_new= [0.00200584 0.99770904 2.00028512]

gradient= [-2.60516824e-04 -9.76775828e-07 2.61493599e-04] w = [0.00200584 0.99770904 2.00028512] w\_new= [0.00200324 0.99770903 2.00028774]

gradient= [-2.60130027e-04 -9.75444880e-07 2.61105472e-04] w = [0.00200324 0.99770903 2.00028774] w\_new= [0.00200063 0.99770902 2.00029035]

gradient= [-2.59743806e-04 -9.74115724e-07 2.60717922e-04] w = [0.00200063 0.99770902 2.00029035] w\_new= [1.99803686e-03 9.97709009e-01 2.00029295e+00]

gradient= [-2.59358159e-04 -9.72788357e-07 2.60330947e-04] w = [1.99803686e-03 9.97709009e-01 2.00029295e+00] w\_new= [1.99544328e-03 9.97708999e-01 2.00029556e+00]

gradient= [-2.58973084e-04 -9.71462778e-07 2.59944547e-04] w = [1.99544328e-03 9.97708999e-01 2.00029556e+00] w\_new= [1.99285355e-03 9.97708989e-01 2.00029816e+00]

gradient= [-2.58588581e-04 -9.70138984e-07 2.59558720e-04] w = [1.99285355e-03 9.97708989e-01 2.00029816e+00] w\_new= [1.99026767e-03 9.97708979e-01 2.00030075e+00]

gradient= [-2.58204650e-04 -9.68816972e-07 2.59173467e-04] w = [1.99026767e-03 9.97708979e-01 2.00030075e+00] w\_new= [1.98768562e-03 9.97708970e-01 2.00030334e+00]

gradient= [-2.57821290e-04 -9.67496740e-07 2.58788786e-04] w = [1.98768562e-03 9.97708970e-01 2.00030334e+00] w\_new= [1.98510741e-03 9.97708960e-01 2.00030593e+00]

gradient= [-2.57438498e-04 -9.66178286e-07 2.58404677e-04] w = [1.98510741e-03 9.97708960e-01 2.00030593e+00] w\_new= [1.98253302e-03 9.97708950e-01 2.00030852e+00]

gradient= [-2.57056276e-04 -9.64861607e-07 2.58021137e-04] w = [1.98253302e-03 9.97708950e-01 2.00030852e+00] w\_new= [1.97996246e-03 9.97708941e-01 2.00031110e+00]

gradient= [-2.56674621e-04 -9.63546701e-07 2.57638168e-04] w = [1.97996246e-03 9.97708941e-01 2.00031110e+00] w\_new= [1.97739571e-03 9.97708931e-01 2.00031367e+00]

gradient= [-2.56293534e-04 -9.62233566e-07 2.57255767e-04] w = [1.97739571e-03 9.97708931e-01 2.00031367e+00] w\_new= [1.97483278e-03 9.97708922e-01 2.00031625e+00]

gradient= [-2.55913012e-04 -9.60922199e-07 2.56873935e-04] w = [1.97483278e-03 9.97708922e-01 2.00031625e+00] w\_new= [1.97227365e-03 9.97708912e-01 2.00031881e+00]

gradient= [-2.55533056e-04 -9.59612597e-07 2.56492669e-04] w = [1.97227365e-03 9.97708912e-01 2.00031881e+00] w\_new= [1.96971832e-03 9.97708902e-01 2.00032138e+00]

gradient= [-2.55153665e-04 -9.58304760e-07 2.56111970e-04] w = [1.96971832e-03 9.97708902e-01 2.00032138e+00] w\_new= [1.96716678e-03 9.97708893e-01 2.00032394e+00]

gradient= [-2.54774837e-04 -9.56998683e-07 2.55731836e-04] w = [1.96716678e-03 9.97708893e-01 2.00032394e+00] w\_new= [1.96461903e-03 9.97708883e-01 2.00032650e+00]

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gradient= [-1.18904043e-04 -4.74054171e-07 1.19378097e-04] w = [1.05186354e-03 9.97705362e-01 2.00124277e+00] w\_new= [1.05067450e-03 9.97705357e-01 2.00124397e+00]

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gradient= [-1.10493662e-05 -5.13684382e-08 1.11007347e-05] w = [3.25052783e-04 9.97702306e-01 2.00197264e+00] w\_new= [3.24942290e-04 9.97702306e-01 2.00197275e+00]

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gradient= [-1.08703630e-05 -5.05825644e-08 1.09209455e-05] w = [3.23846330e-04 9.97702301e-01 2.00197385e+00] w\_new= [3.23737626e-04 9.97702300e-01 2.00197396e+00]

gradient= [-1.08542344e-05 -5.05117162e-08 1.09047462e-05] w = [3.23737626e-04 9.97702300e-01 2.00197396e+00] w\_new= [3.23629084e-04 9.97702300e-01 2.00197407e+00]

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gradient= [-1.06942597e-05 -4.98086310e-08 1.07440683e-05] w = [3.22659421e-04 9.97702295e-01 2.00197505e+00] w\_new= [3.22552479e-04 9.97702295e-01 2.00197515e+00]

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gradient= [-1.06625488e-05 -4.96691846e-08 1.07122180e-05] w = [3.22445695e-04 9.97702294e-01 2.00197526e+00] w\_new= [3.22339069e-04 9.97702294e-01 2.00197537e+00]

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gradient= [-1.06309320e-05 -4.95301259e-08 1.06804621e-05] w = [3.22232602e-04 9.97702293e-01 2.00197547e+00] w\_new= [3.22126293e-04 9.97702293e-01 2.00197558e+00]

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gradient= [-1.05994089e-05 -4.93914538e-08 1.06488003e-05] w = [3.22020141e-04 9.97702292e-01 2.00197569e+00] w\_new= [3.21914147e-04 9.97702292e-01 2.00197579e+00]

gradient= [-1.05836824e-05 -4.93222624e-08 1.06330047e-05] w = [3.21914147e-04 9.97702292e-01 2.00197579e+00] w\_new= [3.21808310e-04 9.97702291e-01 2.00197590e+00]

gradient= [-1.05679792e-05 -4.92531673e-08 1.06172324e-05] w = [3.21808310e-04 9.97702291e-01 2.00197590e+00] w\_new= [3.21702630e-04 9.97702291e-01 2.00197601e+00]

gradient= [-1.05522994e-05 -4.91841683e-08 1.06014836e-05] w = [3.21702630e-04 9.97702291e-01 2.00197601e+00] w\_new= [3.21597107e-04 9.97702290e-01 2.00197611e+00]

gradient= [-1.05366428e-05 -4.91152652e-08 1.05857581e-05] w = [3.21597107e-04 9.97702290e-01 2.00197611e+00] w\_new= [3.21491741e-04 9.97702290e-01 2.00197622e+00]

gradient= [-1.05210095e-05 -4.90464582e-08 1.05700559e-05] w = [3.21491741e-04 9.97702290e-01 2.00197622e+00] w\_new= [3.21386531e-04 9.97702289e-01 2.00197632e+00]

gradient= [-1.05053993e-05 -4.89777467e-08 1.05543771e-05] w = [3.21386531e-04 9.97702289e-01 2.00197632e+00] w\_new= [3.21281477e-04 9.97702289e-01 2.00197643e+00]

gradient= [-1.04898123e-05 -4.89091309e-08 1.05387215e-05] w = [3.21281477e-04 9.97702289e-01 2.00197643e+00] w\_new= [3.21176579e-04 9.97702288e-01 2.00197654e+00]

gradient= [-1.04742485e-05 -4.88406105e-08 1.05230891e-05] w = [3.21176579e-04 9.97702288e-01 2.00197654e+00] w\_new= [3.21071836e-04 9.97702288e-01 2.00197664e+00]

gradient= [-1.04587077e-05 -4.87721856e-08 1.05074799e-05] w = [3.21071836e-04 9.97702288e-01 2.00197664e+00] w\_new= [3.20967249e-04 9.97702287e-01 2.00197675e+00]

gradient= [-1.04431900e-05 -4.87038557e-08 1.04918939e-05] w = [3.20967249e-04 9.97702287e-01 2.00197675e+00] w\_new= [3.20862817e-04 9.97702287e-01 2.00197685e+00]

gradient= [-1.04276953e-05 -4.86356209e-08 1.04763309e-05] w = [3.20862817e-04 9.97702287e-01 2.00197685e+00] w\_new= [3.20758540e-04 9.97702286e-01 2.00197696e+00]

gradient= [-1.04122236e-05 -4.85674811e-08 1.04607911e-05] w = [3.20758540e-04 9.97702286e-01 2.00197696e+00] w\_new= [3.20654418e-04 9.97702286e-01 2.00197706e+00]

gradient= [-1.03967749e-05 -4.84994360e-08 1.04452743e-05] w = [3.20654418e-04 9.97702286e-01 2.00197706e+00] w\_new= [3.20550450e-04 9.97702285e-01 2.00197716e+00]

gradient= [-1.03813491e-05 -4.84314857e-08 1.04297805e-05] w = [3.20550450e-04 9.97702285e-01 2.00197716e+00] w\_new= [3.20446637e-04 9.97702285e-01 2.00197727e+00]

gradient= [-1.03659461e-05 -4.83636299e-08 1.04143098e-05] w = [3.20446637e-04 9.97702285e-01 2.00197727e+00] w\_new= [3.20342977e-04 9.97702284e-01 2.00197737e+00]

gradient= [-1.03505661e-05 -4.82958685e-08 1.03988619e-05] w = [3.20342977e-04 9.97702284e-01 2.00197737e+00] w\_new= [3.20239472e-04 9.97702284e-01 2.00197748e+00]

gradient= [-1.03352088e-05 -4.82282014e-08 1.03834370e-05] w = [3.20239472e-04 9.97702284e-01 2.00197748e+00] w\_new= [3.20136120e-04 9.97702283e-01 2.00197758e+00]

gradient= [-1.03198743e-05 -4.81606285e-08 1.03680350e-05] w = [3.20136120e-04 9.97702283e-01 2.00197758e+00] w\_new= [3.20032921e-04 9.97702283e-01 2.00197768e+00]

gradient= [-1.03045626e-05 -4.80931496e-08 1.03526558e-05] w = [3.20032921e-04 9.97702283e-01 2.00197768e+00] w\_new= [3.19929875e-04 9.97702282e-01 2.00197779e+00]

gradient= [-1.02892736e-05 -4.80257646e-08 1.03372994e-05] w = [3.19929875e-04 9.97702282e-01 2.00197779e+00] w\_new= [3.19826983e-04 9.97702282e-01 2.00197789e+00]

gradient= [-1.02740073e-05 -4.79584734e-08 1.03219658e-05] w = [3.19826983e-04 9.97702282e-01 2.00197789e+00] w\_new= [3.19724242e-04 9.97702282e-01 2.00197799e+00]

gradient= [-1.02587637e-05 -4.78912757e-08 1.03066549e-05] w = [3.19724242e-04 9.97702282e-01 2.00197799e+00] w\_new= [3.19621655e-04 9.97702281e-01 2.00197810e+00]

gradient= [-1.02435426e-05 -4.78241716e-08 1.02913668e-05] w = [3.19621655e-04 9.97702281e-01 2.00197810e+00] w\_new= [3.19519219e-04 9.97702281e-01 2.00197820e+00]

gradient= [-1.02283442e-05 -4.77571608e-08 1.02761013e-05] w = [3.19519219e-04 9.97702281e-01 2.00197820e+00] w\_new= [3.19416936e-04 9.97702280e-01 2.00197830e+00]

gradient= [-1.02131683e-05 -4.76902433e-08 1.02608585e-05] w = [3.19416936e-04 9.97702280e-01 2.00197830e+00] w\_new= [3.19314804e-04 9.97702280e-01 2.00197841e+00]

gradient= [-1.01980149e-05 -4.76234189e-08 1.02456383e-05] w = [3.19314804e-04 9.97702280e-01 2.00197841e+00] w\_new= [3.19212824e-04 9.97702279e-01 2.00197851e+00]

gradient= [-1.01828840e-05 -4.75566876e-08 1.02304407e-05] w = [3.19212824e-04 9.97702279e-01 2.00197851e+00] w\_new= [3.19110995e-04 9.97702279e-01 2.00197861e+00]

gradient= [-1.01677755e-05 -4.74900491e-08 1.02152656e-05] w = [3.19110995e-04 9.97702279e-01 2.00197861e+00] w\_new= [3.19009318e-04 9.97702278e-01 2.00197871e+00]

gradient= [-1.01526895e-05 -4.74235032e-08 1.02001130e-05] w = [3.19009318e-04 9.97702278e-01 2.00197871e+00] w\_new= [3.18907791e-04 9.97702278e-01 2.00197881e+00]

gradient= [-1.01376258e-05 -4.73570501e-08 1.01849829e-05] w = [3.18907791e-04 9.97702278e-01 2.00197881e+00] w\_new= [3.18806414e-04 9.97702277e-01 2.00197892e+00]

gradient= [-1.01225845e-05 -4.72906894e-08 1.01698752e-05] w = [3.18806414e-04 9.97702277e-01 2.00197892e+00] w\_new= [3.18705189e-04 9.97702277e-01 2.00197902e+00]

gradient= [-1.01075655e-05 -4.72244210e-08 1.01547900e-05] w = [3.18705189e-04 9.97702277e-01 2.00197902e+00] w\_new= [3.18604113e-04 9.97702276e-01 2.00197912e+00]

gradient= [-1.00925688e-05 -4.71582449e-08 1.01397271e-05] w = [3.18604113e-04 9.97702276e-01 2.00197912e+00] w\_new= [3.18503187e-04 9.97702276e-01 2.00197922e+00]

gradient= [-1.00775944e-05 -4.70921608e-08 1.01246866e-05] w = [3.18503187e-04 9.97702276e-01 2.00197922e+00] w\_new= [3.18402411e-04 9.97702275e-01 2.00197932e+00]

gradient= [-1.00626422e-05 -4.70261688e-08 1.01096683e-05] w = [3.18402411e-04 9.97702275e-01 2.00197932e+00] w\_new= [3.18301785e-04 9.97702275e-01 2.00197942e+00]

gradient= [-1.00477121e-05 -4.69602686e-08 1.00946724e-05] w = [3.18301785e-04 9.97702275e-01 2.00197942e+00] w\_new= [3.18201308e-04 9.97702274e-01 2.00197952e+00]

gradient= [-1.00328042e-05 -4.68944601e-08 1.00796987e-05] w = [3.18201308e-04 9.97702274e-01 2.00197952e+00] w\_new= [3.18100980e-04 9.97702274e-01 2.00197963e+00]

gradient= [-1.00179185e-05 -4.68287432e-08 1.00647472e-05] w = [3.18100980e-04 9.97702274e-01 2.00197963e+00] w\_new= [3.18000801e-04 9.97702273e-01 2.00197973e+00]

gradient= [-1.00030548e-05 -4.67631178e-08 1.00498179e-05] w = [3.18000801e-04 9.97702273e-01 2.00197973e+00] w\_new= [3.17900770e-04 9.97702273e-01 2.00197983e+00]

gradient= [-9.98821314e-06 -4.66975836e-08 1.00349107e-05] w = [3.17900770e-04 9.97702273e-01 2.00197983e+00] w\_new= [3.17800888e-04 9.97702273e-01 2.00197993e+00]

gradient= [-9.97339353e-06 -4.66321408e-08 1.00200257e-05] w = [3.17800888e-04 9.97702273e-01 2.00197993e+00] w\_new= [3.17701154e-04 9.97702272e-01 2.00198003e+00]

gradient= [-9.95859592e-06 -4.65667889e-08 1.00051627e-05] w = [3.17701154e-04 9.97702272e-01 2.00198003e+00] w\_new= [3.17601568e-04 9.97702272e-01 2.00198013e+00]

gradient= [-9.94382025e-06 -4.65015281e-08 9.99032178e-06] w = [3.17601568e-04 9.97702272e-01 2.00198013e+00] w\_new= [3.17502130e-04 9.97702271e-01 2.00198023e+00]

[================= RESULT =======================]

samples = 1000 learned weights are = [-0.03475229 0.81589866 2.21885363] Partition function = 6.122735092387562

samples = 100 learned weights are = [-0.245741 0.71346558 2.53227543] Partition function = 6.448996444509172

samples = 1000 learned weights are = [-0.07675166 0.88796617 2.18878549] Partition function = 6.121916453797905

samples = 10000 learned weights are = [-0.03278394 0.96471681 2.06806712] Partition function = 6.031185086697469

samples = 100000 learned weights are = [3.17502130e-04 9.97702271e-01 2.00198023e+00] Partition function = 5.981264632115218

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