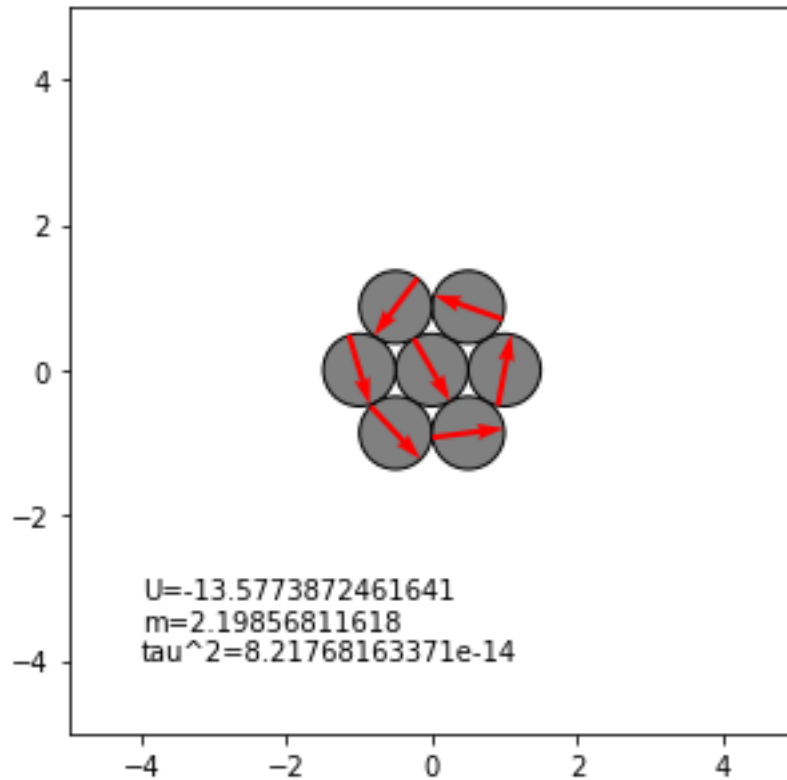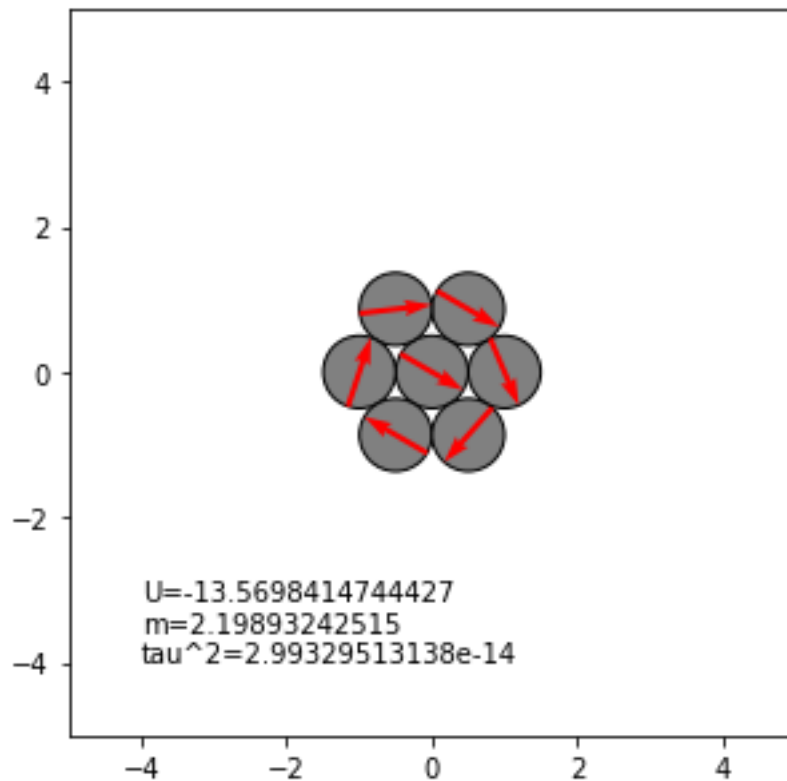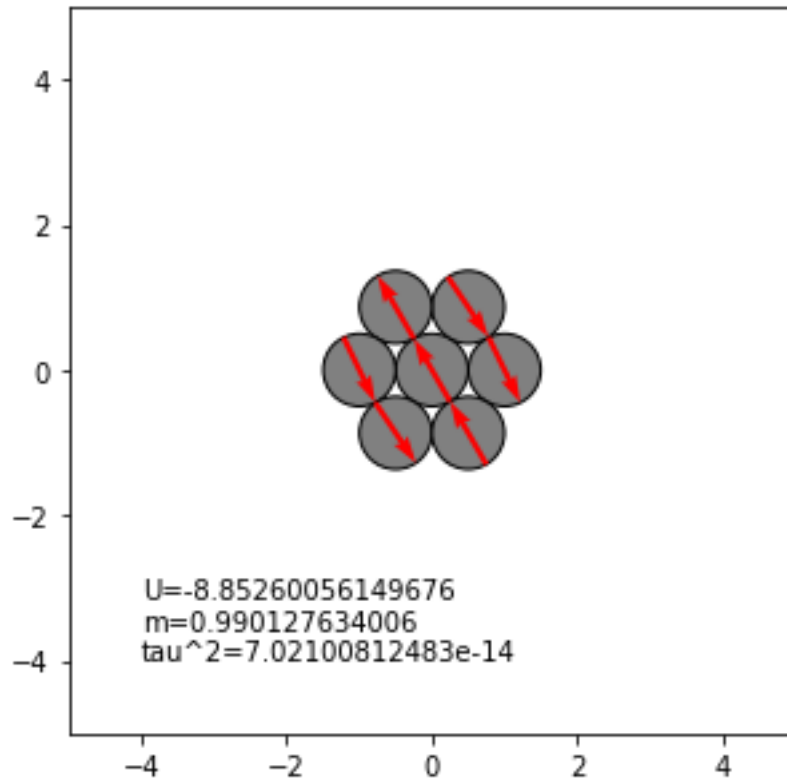solution no.:1
solution:(-1.0471995875119704, 1.3883732553930772, 2.800418279335934, 4.06294206127
0801, 5.002593536119035, 5.469380345912305, 0.12584843604020696)
nature = local minimum

U=-13.57738724461641
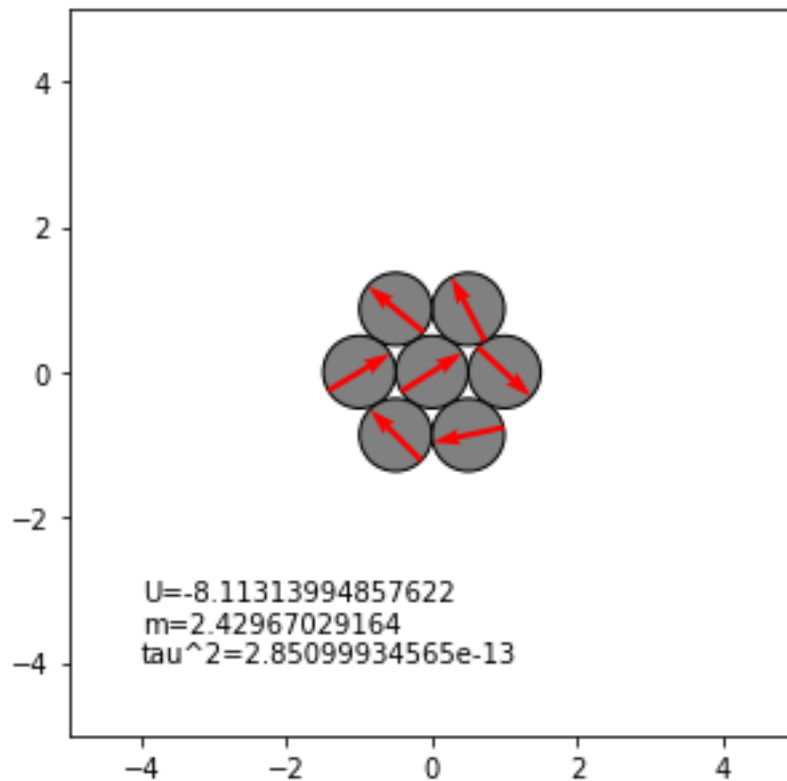m=2.19856811618
tau^2=8.21768163371e-14

solution no.:2
solution:(-0.5235985356918569, 5.116137308754479, 5.759586703736566, 0.119850473177
76616, 1.2491320182458436, 2.6179937613917197, 3.9868556443224317)
nature = saddle point

U=-13.5698414744427
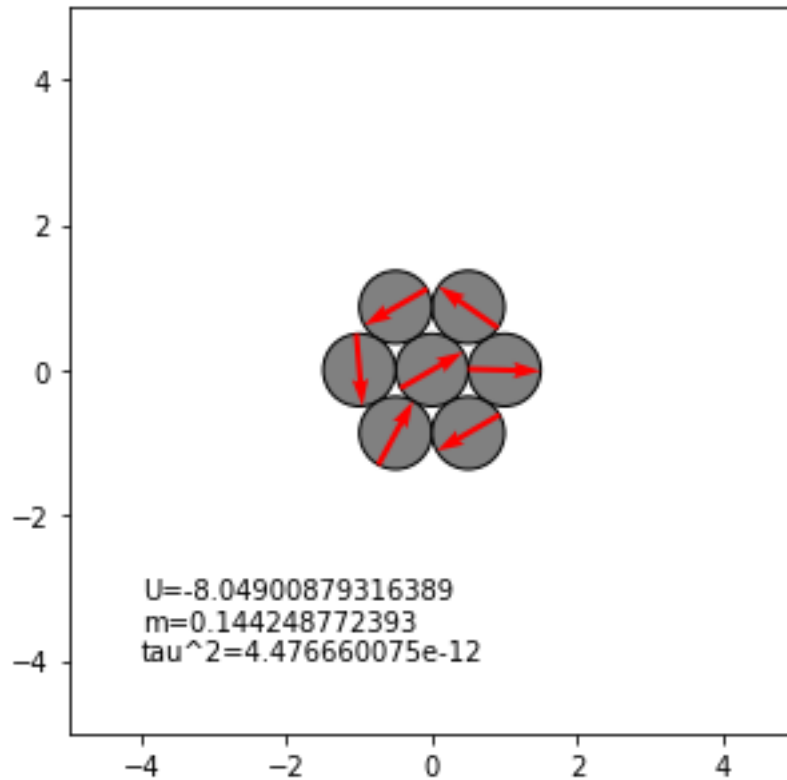m=2.19893242515
tau^2=2.99329513138e-14

solution no.:3
solution:(2.0943950043010284, -1.1174696843649545, 5.306260094987001, 2.09439523750
9192, 5.165715202407882, 5.3062604618561755, 2.0943948847427647)
nature = saddle point

U=-8.85260056149676
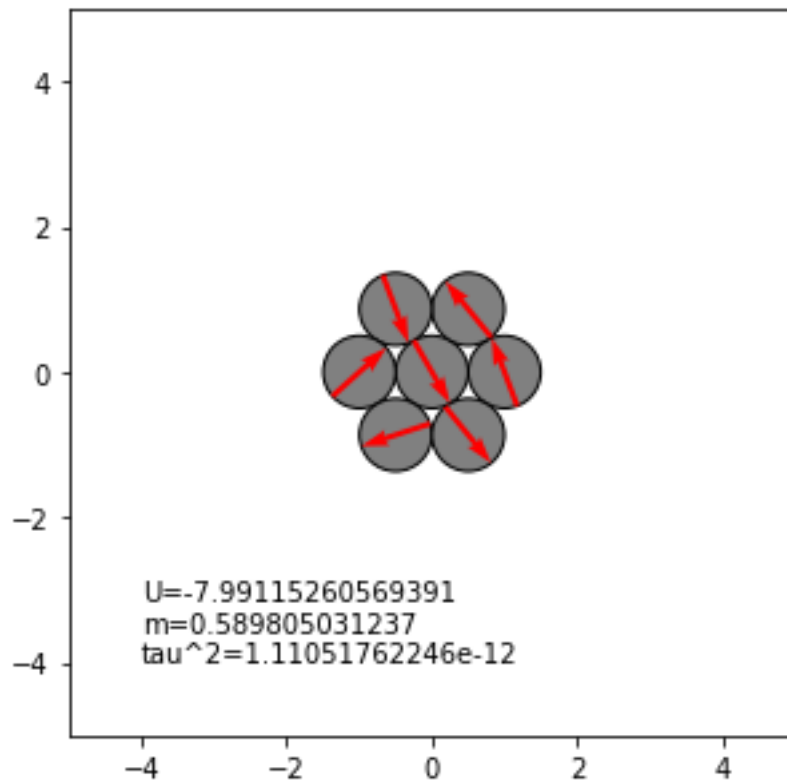m=0.990127634006
tau^2=7.02100812483e-14

solution no.:4
solution:(0.5643385770767536, 5.534785667798975, 2.054004178554188, 2.4549671164334
343, 0.5363830184372615, 2.3605361055219456, 3.352046226814262)
nature = saddle point

U=-8.11313994857622
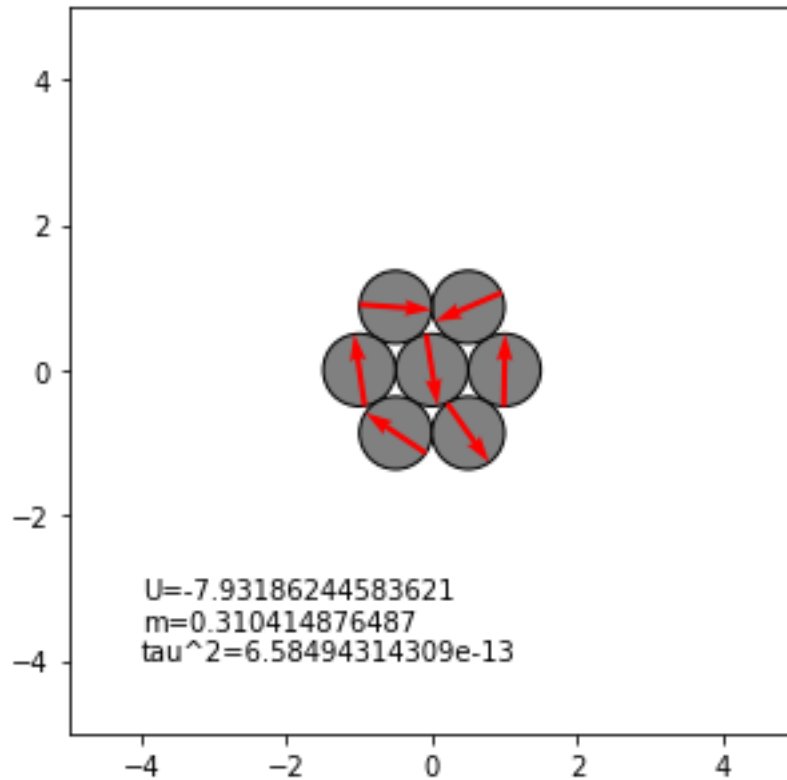m=2.42967029164
tau^2=2.85099934565e-13

solution no.:5
solution:(0.5235984257416585, -0.026598524416209864, 2.53285494086554, 3.6651920173
602837, 4.797527442861996, 1.0737962816379771, 3.665191828231242)
nature = saddle point

U=-8.04900879316389
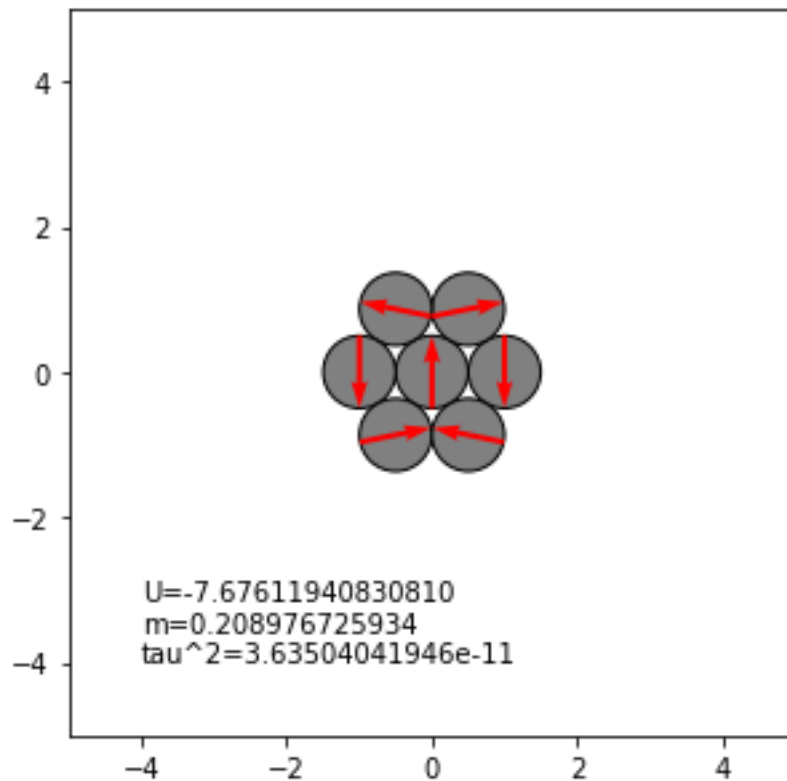m=0.144248772393
tau^2=4.476660075e-12

solution no.:6
solution:(-1.0471969387005946, 1.9299830064759431, 2.25880722385366, 5.075489094022
672, 0.7308082343188504, 3.4579804197411694, 5.396484375704907)
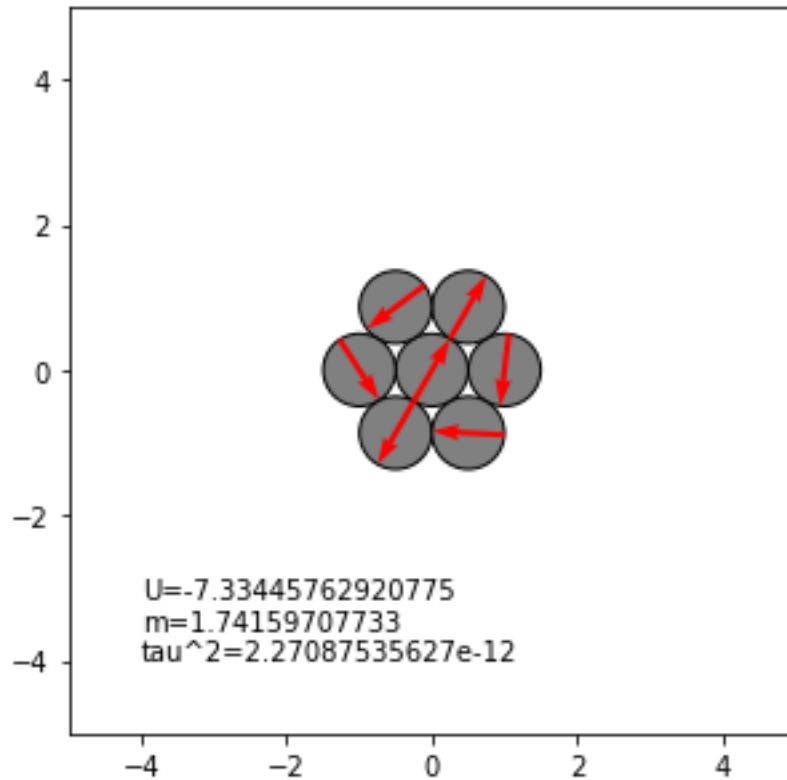nature = saddle point

U=-7.99115260569391
m=0.589805031237
tau^2=1.11051762246e-12

solution no.:7
solution:(-1.4124800907866342, 7.836297145147611, 3.5477589513479733, -0.0710846059
5686883, 1.7150795957453806, 2.5523977500067754, 5.3287695841889935)
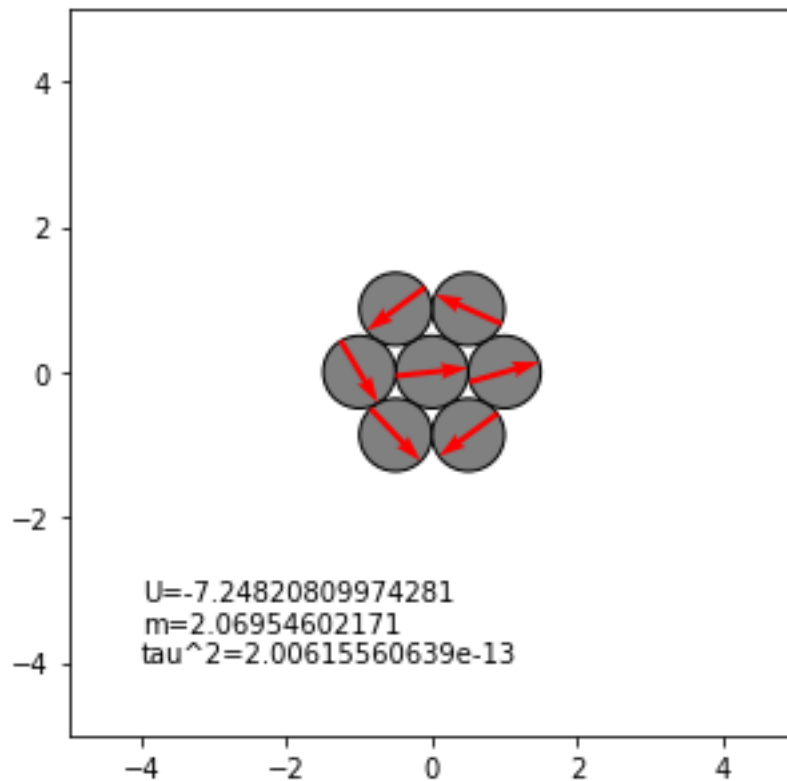nature = saddle point

U=-7.93186244583621
m=0.310414876487
tau^2=6.58494314309e-13

solution no.:8
solution:(1.5707984481370023, 4.71238755266467, 0.19906404333332814, 2.942522416531
0806, 4.712385534396046, 6.482254940863883, -3.34066072296998)
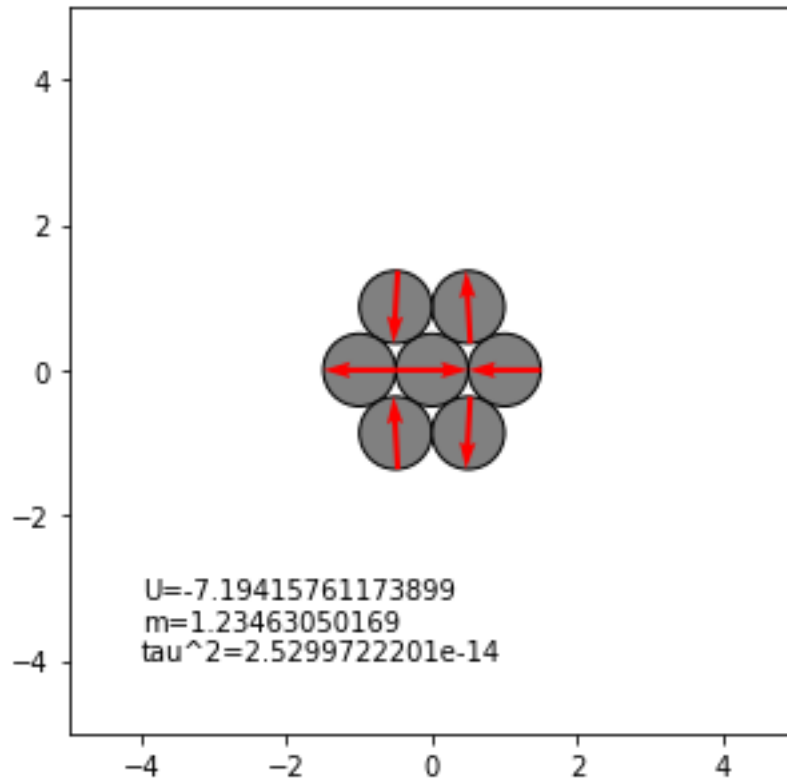nature = saddle point

U=-7.67611940830810
m=0.208976725934
tau^2=3.63504041946e-11

solution no.:9
solution:(1.047199011650877, 4.592148057187995, 1.0472011872920866, 3.7854205470041
02, -0.9915417336730485, 4.1887854600948105, 3.08593980697995)
nature = saddle point

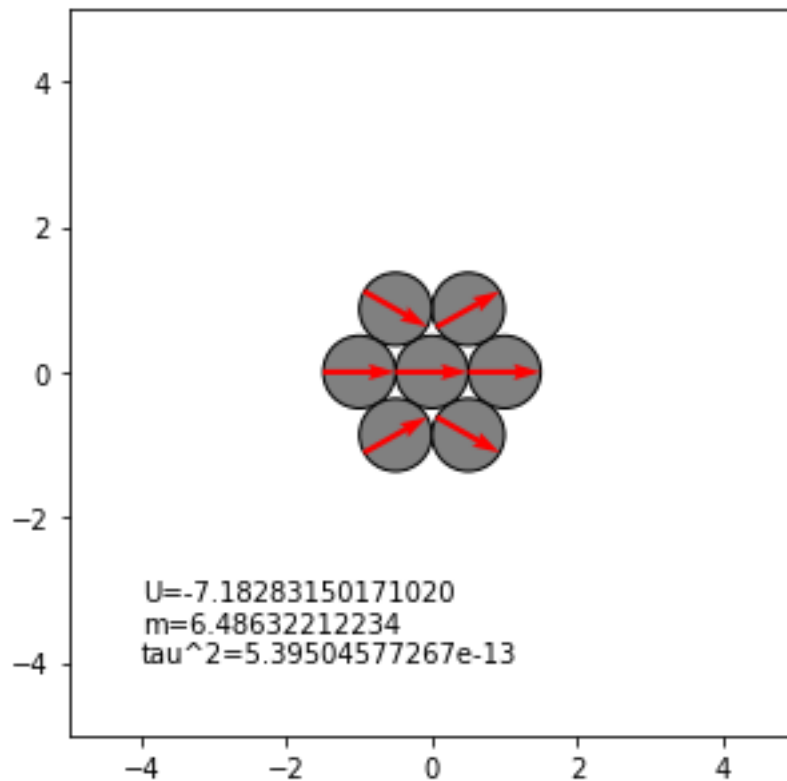U=-7.33445762920775
m=1.74159707733
tau^2=2.27087535627e-12

solution no.:10
solution:(0.11203104248277228, 0.27958421122980537, 2.7213639273228414, 3.779269659
252245, 5.253805005176306, 5.475367196857684, 3.7722101830668815)
nature = saddle point

U=-7.24820809974281
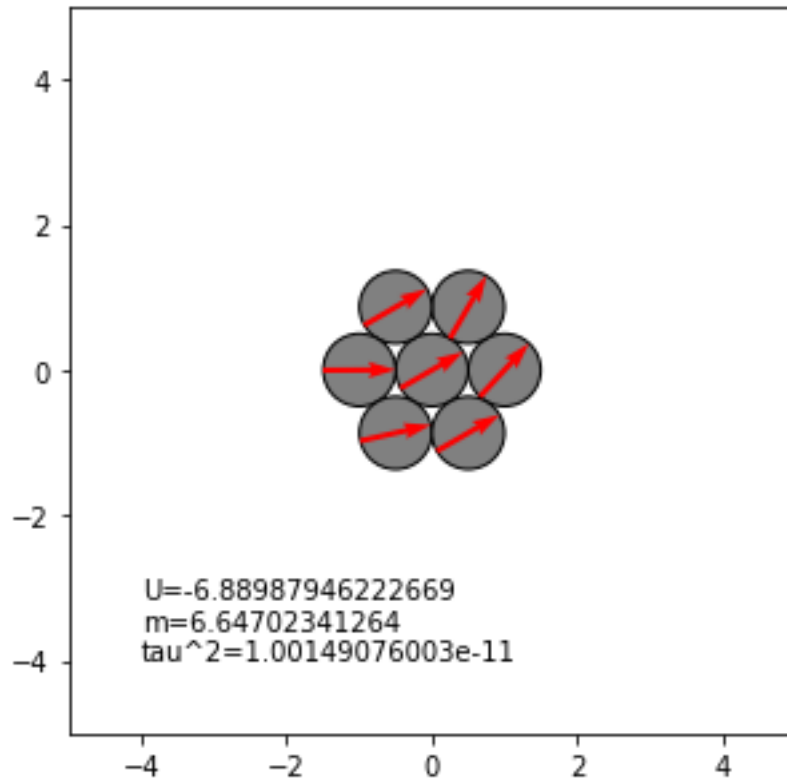m=2.06954602171
tau^2=2.00615560639e-13

solution no.:11
solution:(8.377280979045765e-09, 3.1415926193545785, 1.6294876486230647, 4.65369764
3136075, 3.141592625373479, 1.6294876339109856, 4.653697686609294)
nature = saddle point

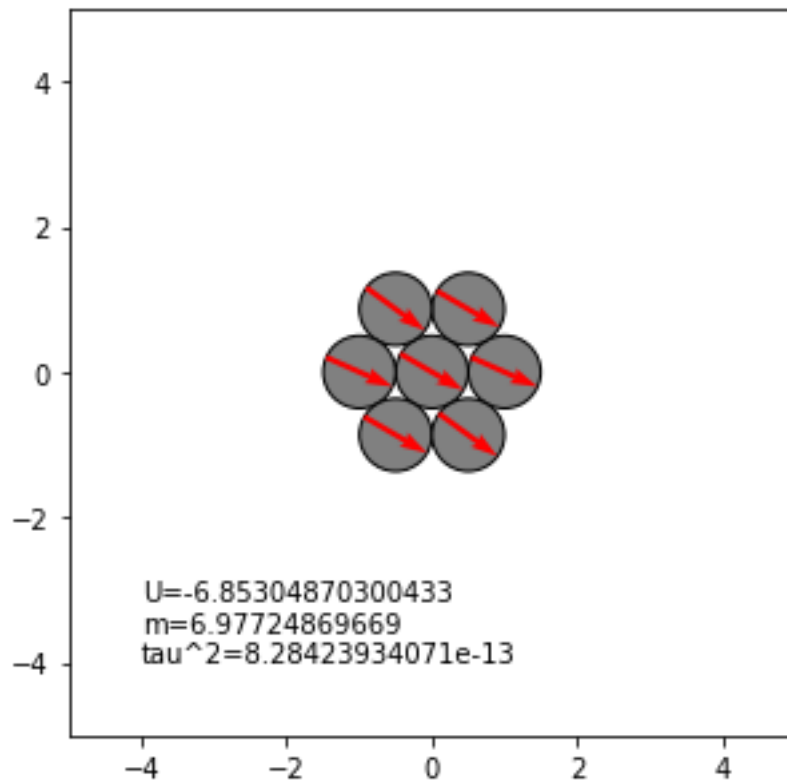U=-7.19415761173899
m=1.23463050169
tau^2=2.5299722201e-14

solution no.:12
solution:(7.816820761832847e-08, 6.283184811934568, 6.79556440140415, -0.5123795566
450483, -2.569332577800863e-07, 0.5123790469082038, 5.770805905300787)
nature = saddle point

U=-7.18283150171020
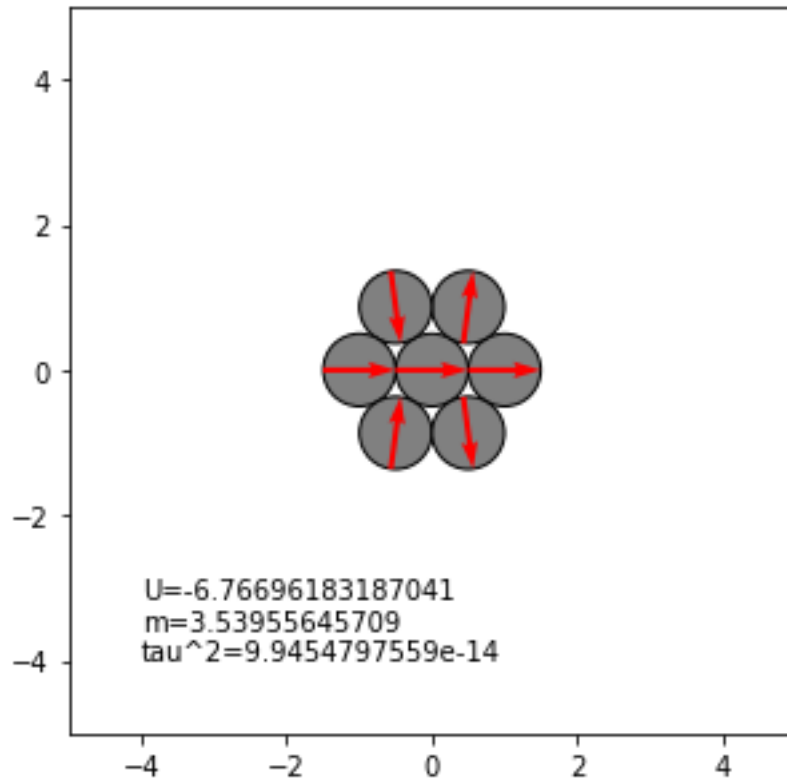m=6.48632212234
tau^2=5.39504577267e-13

solution no.:13
solution:(0.5235952783628213, 0.8246773927866425, 1.0422448063443788, 6.80678829314
5058, 6.288146426051118, 6.505714274302684, 0.5235927007517068)
nature = saddle point

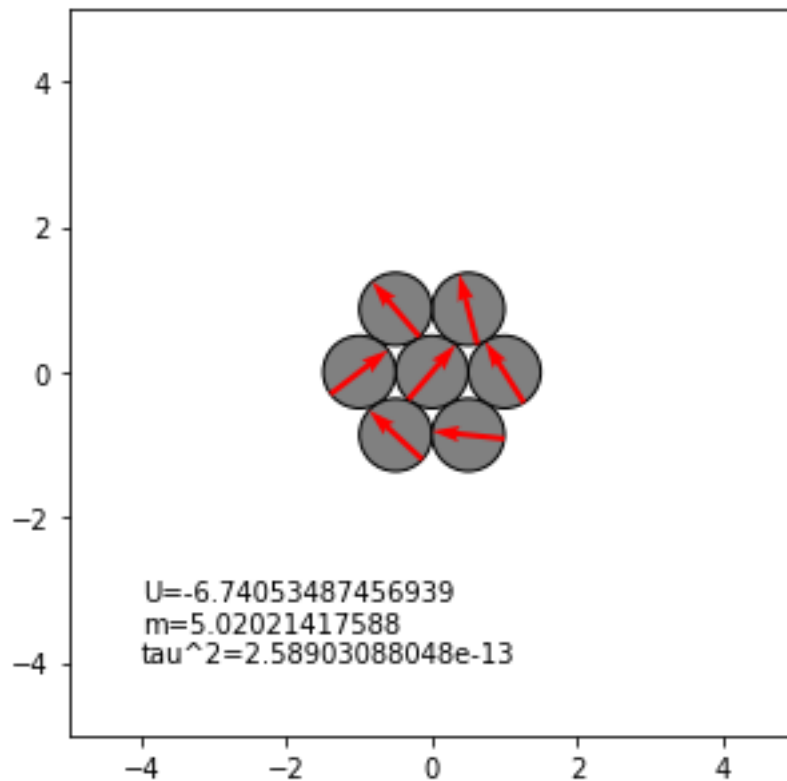U=-6.88987946222669
m=6.64702341264
tau^2=1.00149076003e-11

solution no.:14
solution:(-0.5235989046202617, 5.86629439695444, -0.5235990952083581, 5.65287857638
6639, 5.866293071265263, 5.7595865488484055, 5.652879617709607)
nature = saddle point

U=-6.85304870300433
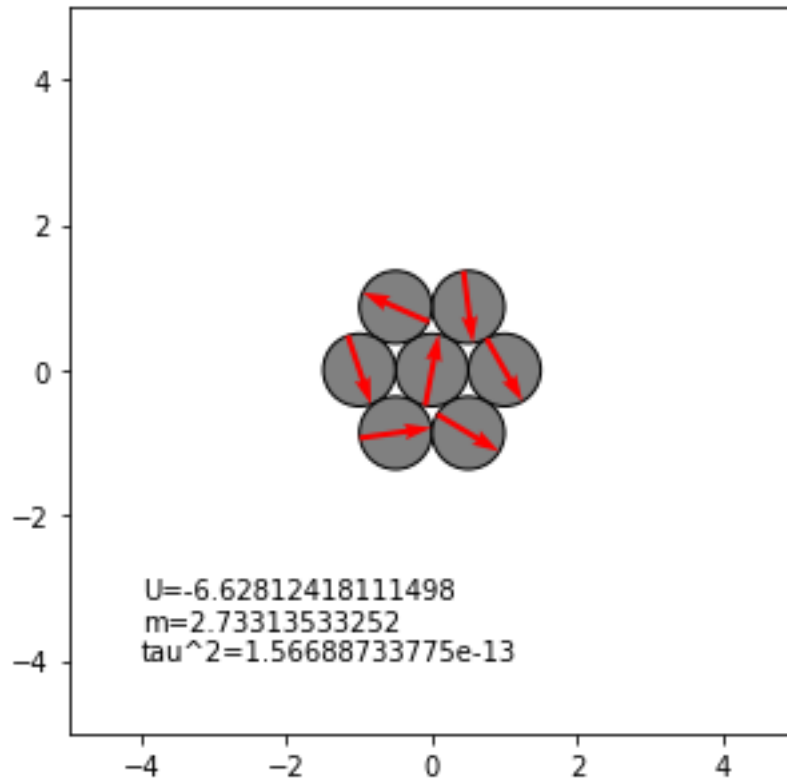m=6.97724869669
tau^2=8.28423934071e-13

solution no.:15
solution:(-1.0482830750697398e-08, 6.283185282352005, 1.4354947952270496, 4.8476905
99740362, -2.4921508832990258e-08, 1.4354947907328797, -1.4354948012980269)
nature = saddle point

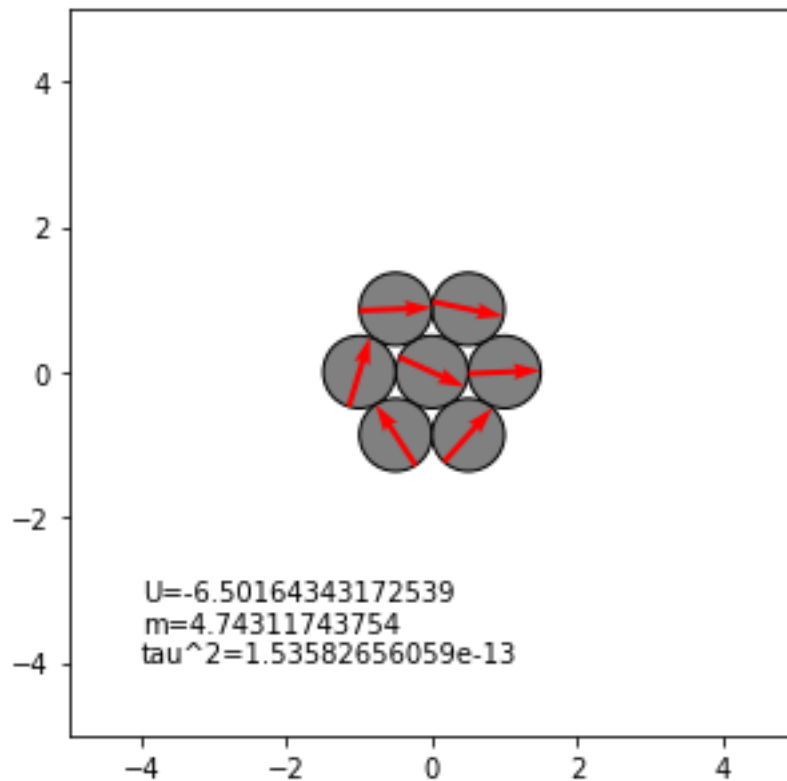U=-6.76696183187041
m=3.53955645709
tau^2=9.9454797559e-14

solution no.:16
solution:(0.8581322950693282, 2.1354520695588066, 1.8267581651922622, 2.28112050599
81057, 0.6511742796985951, 2.397382985236826, 3.0359427776898134)
nature = saddle point

U=-6.74053487456939
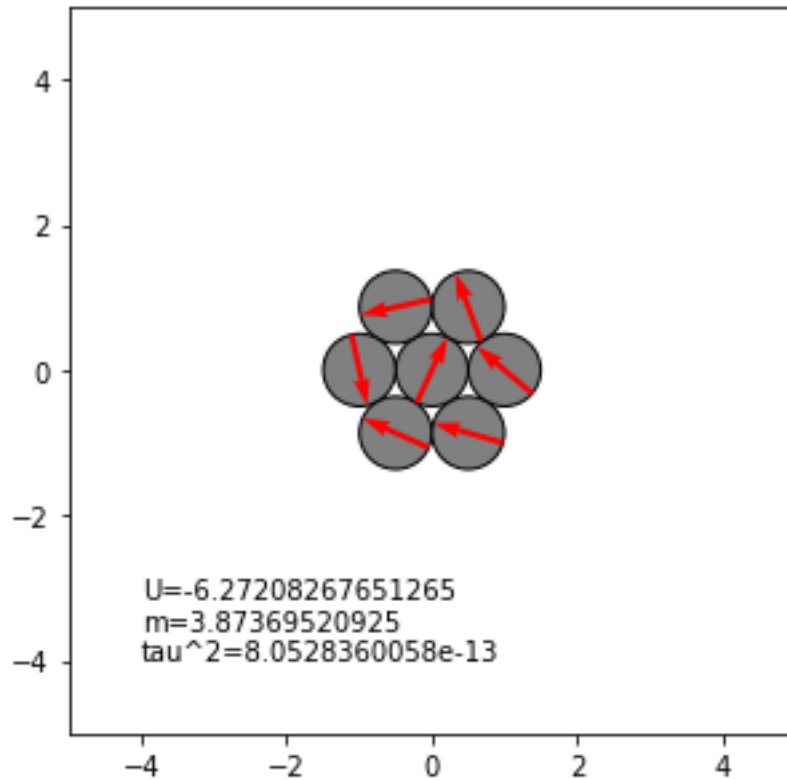m=5.02021417588
tau^2=2.58903088048e-13

solution no.:17
solution:(1.3859377558158774, -1.0510390402525633, 4.8430393605307955, 2.7234993759
48613, -1.2454527987552746, 6.424336401586421, -0.5394926774441379)
nature = saddle point

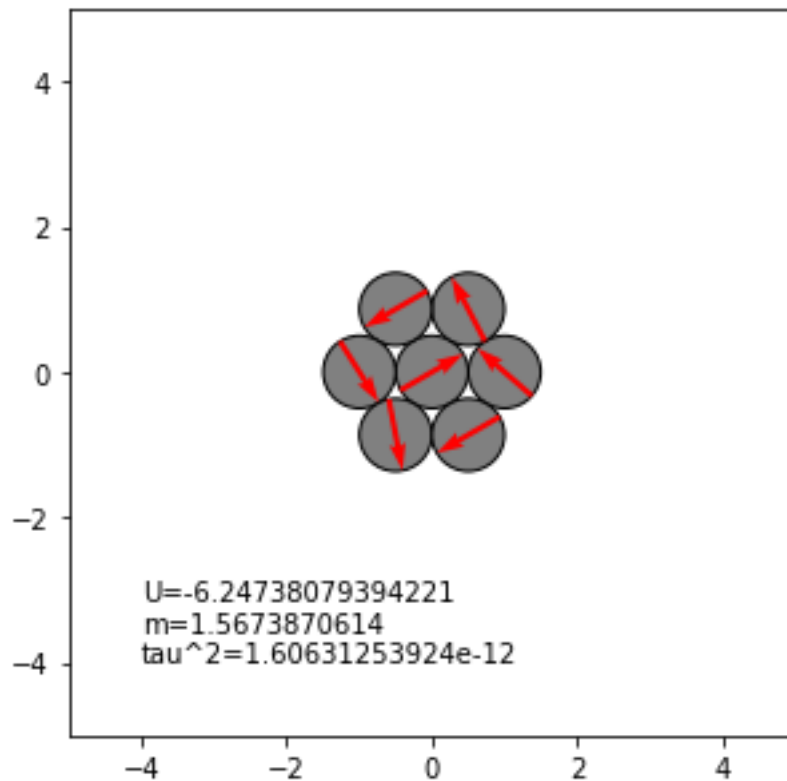U=-6.62812418111498
m=2.73313533252
tau^2=1.56688733775e-13

solution no.:18
solution:(-0.42518684814921953, 0.04426987827023676, 6.076806105270252, 6.326704022
000808, 1.274212741550818, 2.153666398153651, 0.8380927402065361)
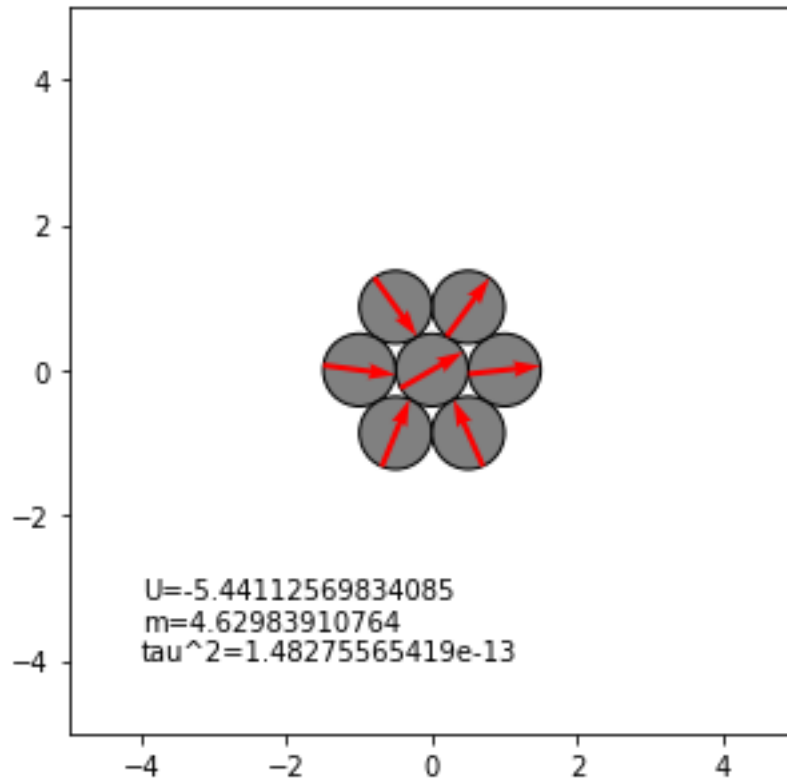nature = saddle point

U=-6.50164343172539
m=4.74311743754
tau^2=1.53582656059e-13

solution no.:19
solution:(1.1357795460227067, 2.44019296124327, 1.931373332447796, 3.35981854383311
74, -1.3541317518208764, 2.7213061599691026, 2.86396367169558)
nature = saddle point

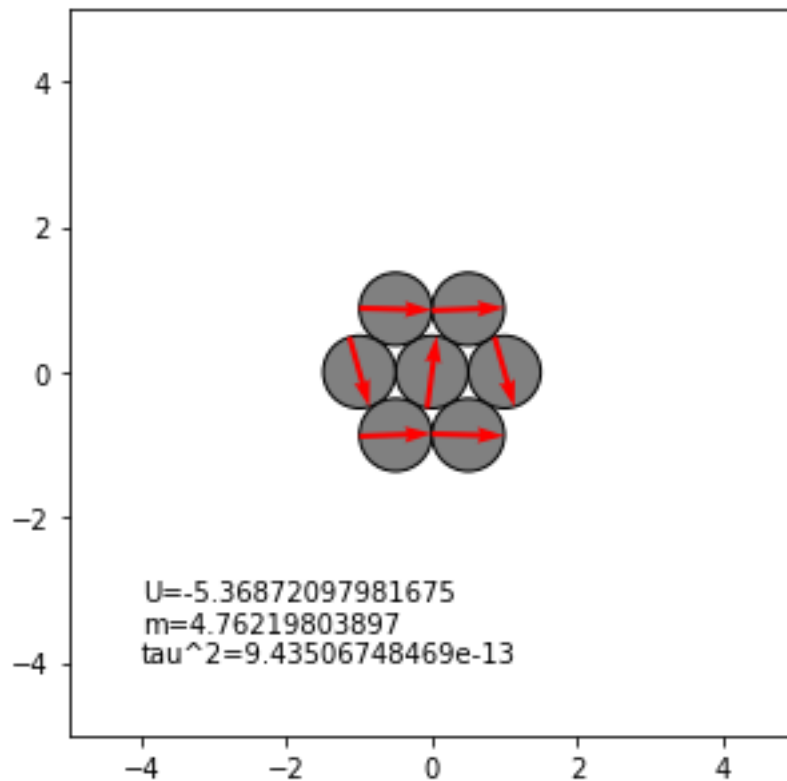U=-6.27208267651265
m=3.87369520925
tau^2=8.0528360058e-13

solution no.:20
solution:(0.5235990847124132, 2.4262286105425694, 2.0522993626291237, 3.66519135441
07866, 5.2780832555319055, 4.9041549674201965, 3.665191608169258)
nature = saddle point

U=-6.24738079394221
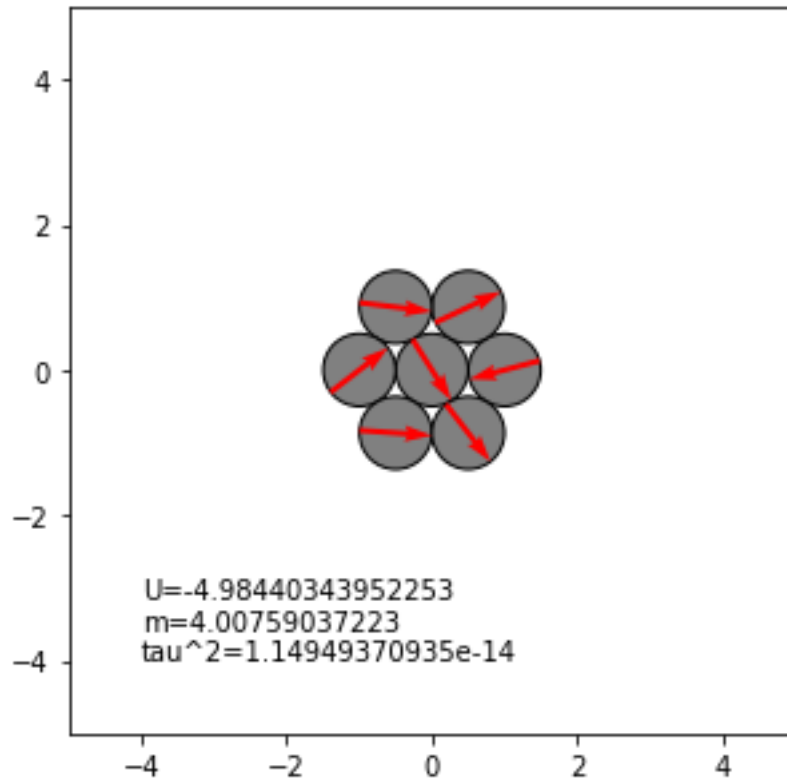m=1.5673870614
tau^2=1.60631253924e-12

solution no.:21
solution:(0.5235988186714234, 0.11211597088005665, 7.218266966978812, -0.9417042024
196328, 6.151858148427933, 1.1785247122940885, 1.9889017858301166)
nature = saddle point

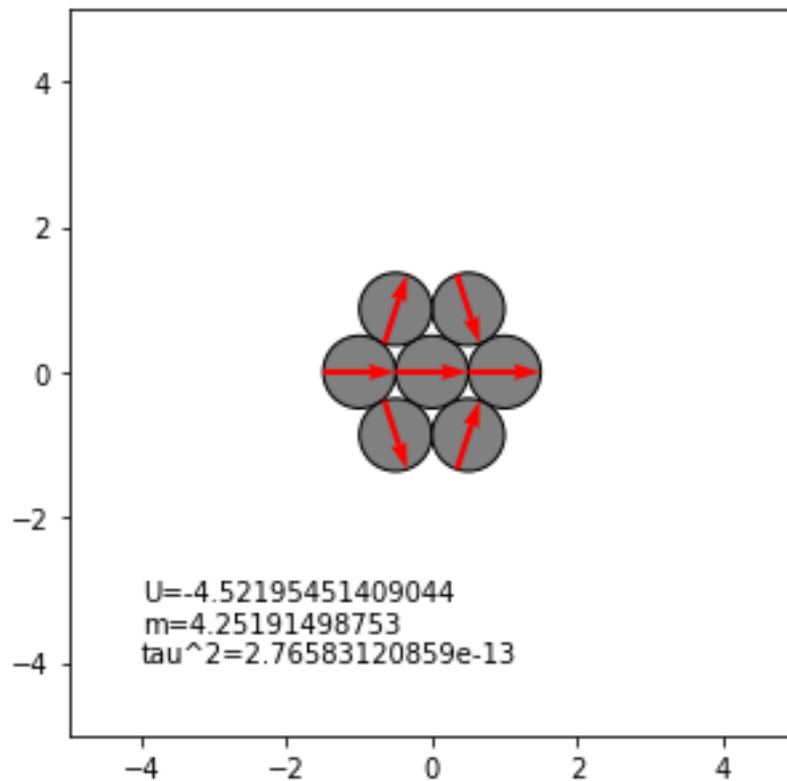U=-5.44112569834085
m=4.62983910764
tau^2=1.48275565419e-13

solution no.:22
solution:(1.4410668167612186, 4.989550428947506, 0.03653048938866202, 6.25826171807
93045, 4.989550716278737, 0.03653053284806994, -0.02492345956395156)
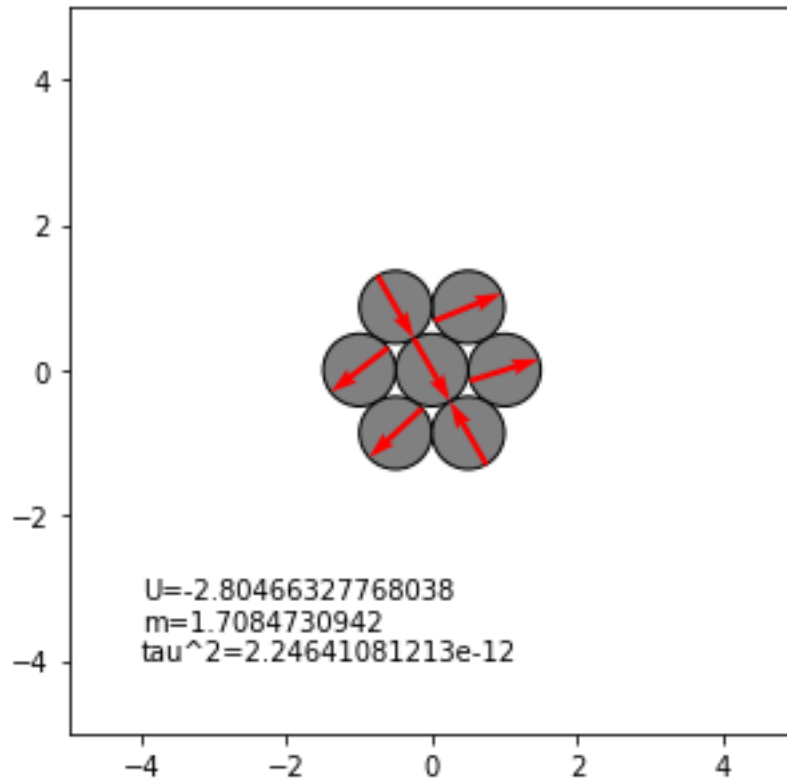nature = saddle point

U=-5.36872097981675
m=4.76219803897
tau^2=9.43506748469e-13

solution no.:23
solution:(-1.0055738038004707, 3.400630030483509, 0.44095010942787777, 6.1611090037
68146, 0.6567044408610357, 6.212914437283426, 5.372935093930512)
nature = saddle point

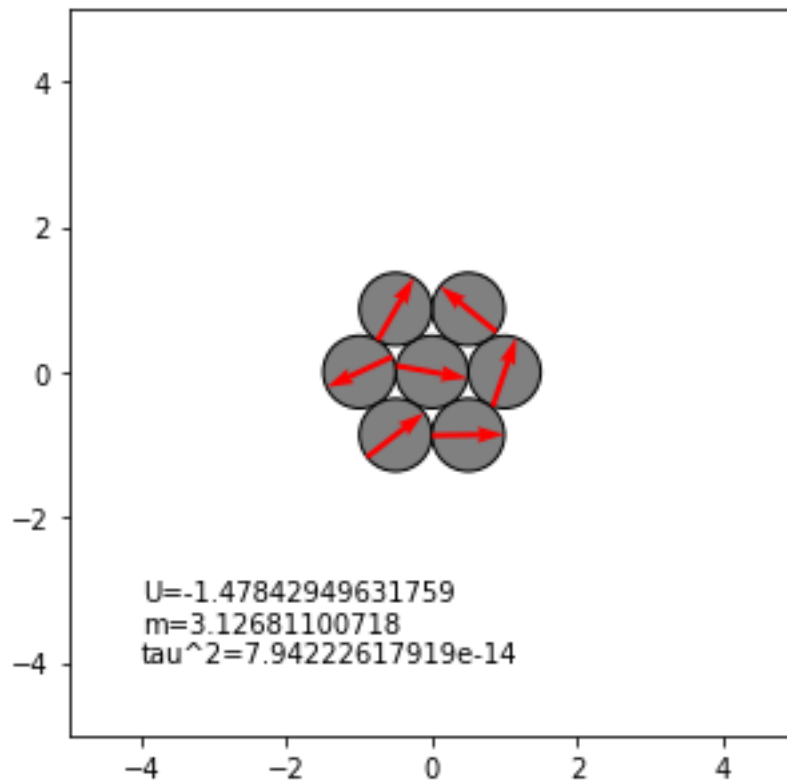U=-4.98440343952253
m=4.00759037223
tau^2=1.14949370935e-14

solution no.:24
solution:(2.1262869936860134e-08, 6.2831853396688455, 5.030716704105511, 7.53565396
2967229, 3.132848879873695e-08, 5.030716672691193, 1.2524684800177133)
nature = saddle point

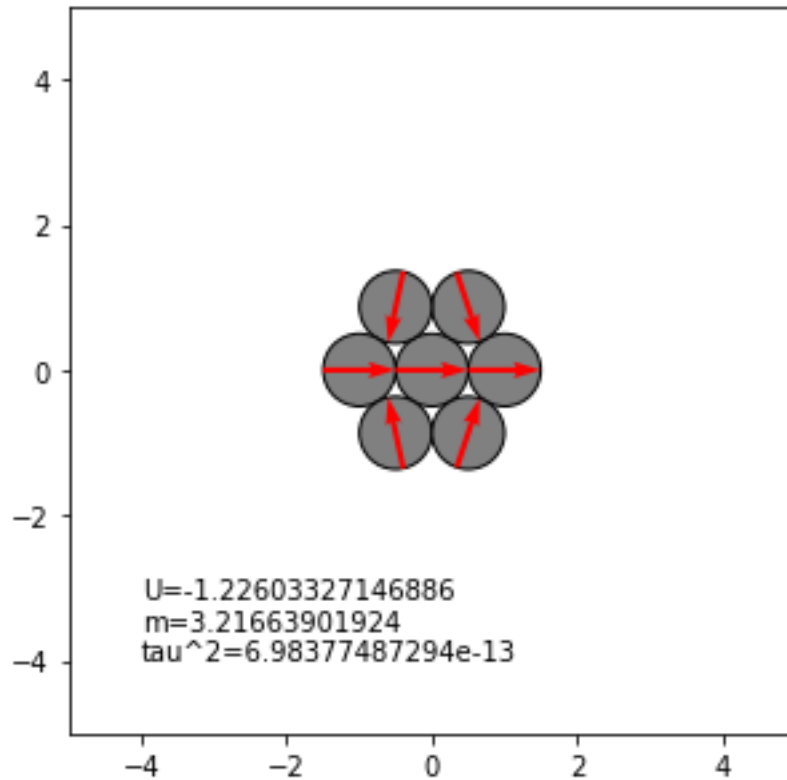U=-4.52195451409044
m=4.25191498753
tau^2=2.76583120859e-13

solution no.:25
solution:(-1.0471975363258226, 6.585700804137519, 0.3882356252215722, 5.23598779149
893, 3.8005542267749464, 3.8862745230852926, 2.094395056555638)
nature = saddle point

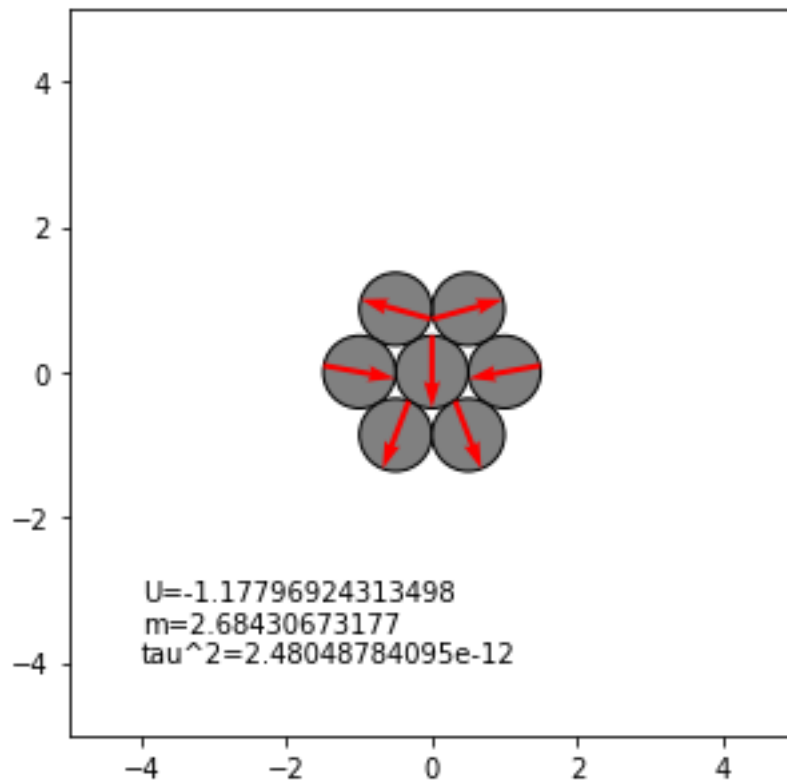U=-2.80466327768038
m=1.7084730942
tau^2=2.24641081213e-12

solution no.:26
solution:(-0.1737996704016923, 1.2422755950320277, 2.4630970673758865, 1.0466149570
163878, 3.5747823845247746, 0.6576179004360628, 6.297889635979811)
nature = saddle point

U=-1.47842949631759
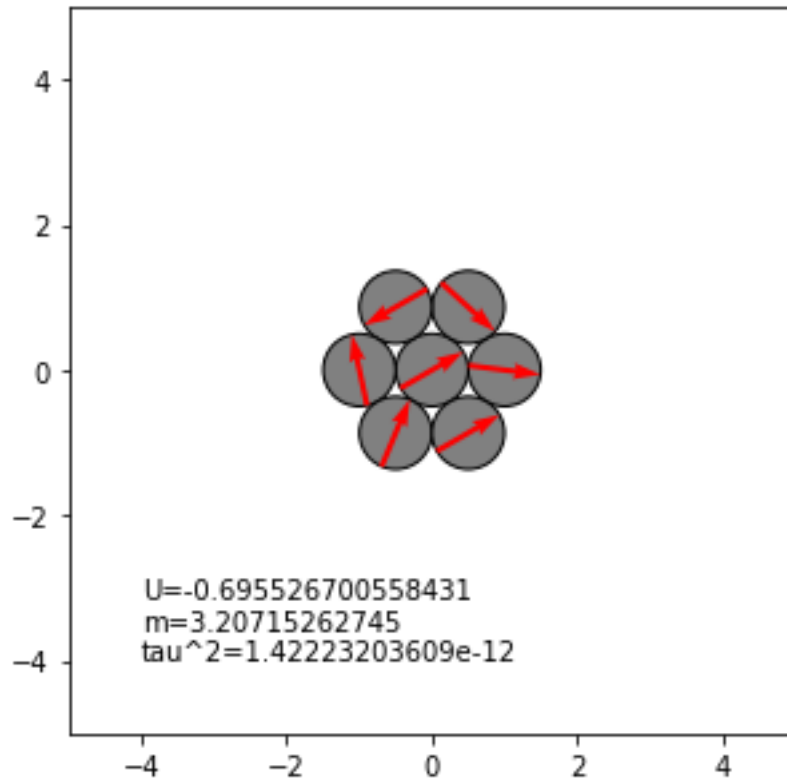m=3.12681100718
tau^2=7.94222617919e-14

solution no.:27
solution:(2.3929884649209854e-07, 6.283185219765103, 5.034161264778637, 4.502931500
10782, 9.05377110435308e-07, 1.780252849647685, 1.249024192763914)
nature = saddle point

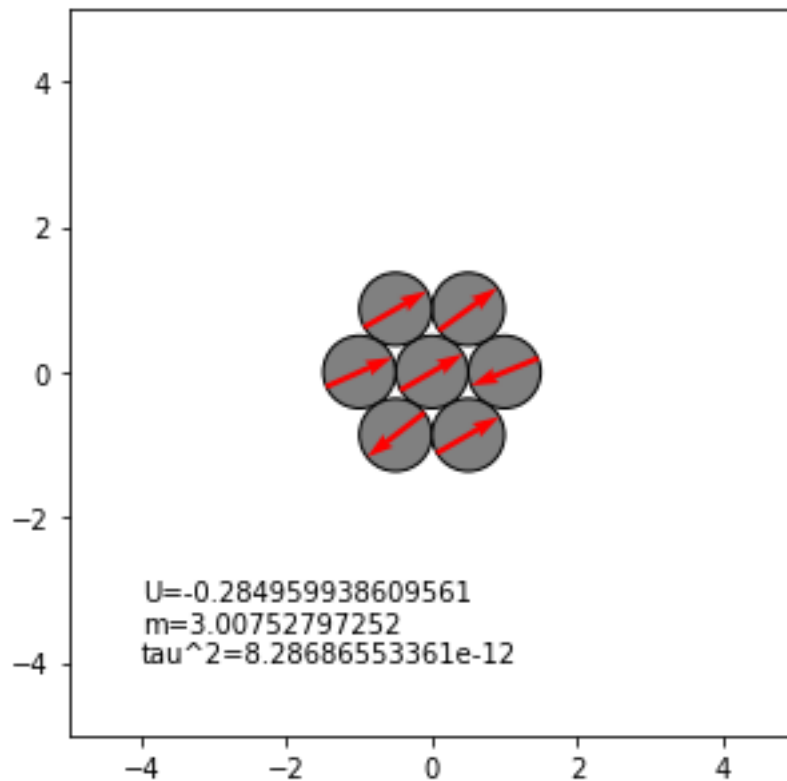U=-1.22603327146886
m=3.21663901924
tau^2=6.98377487294e-13

solution no.:28
solution:(-1.5707959586096438, 3.32034254497155, 0.27195526639096007, 2.86963710597
62362, -0.1787503927917166, 4.344167799708422, 5.080610339119354)
nature = saddle point

U=-1.17796924313498
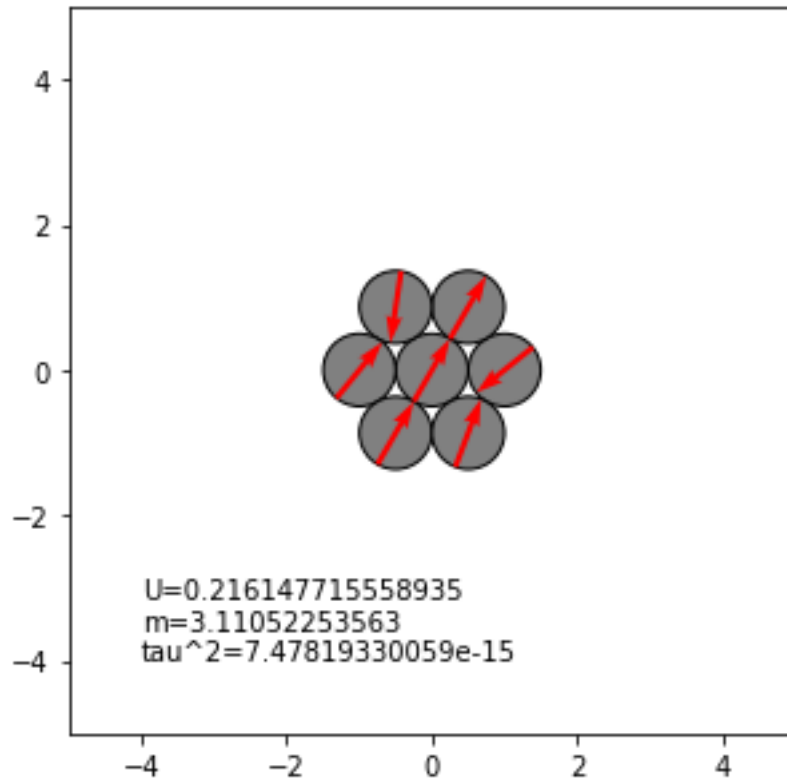m=2.68430673177
tau^2=2.48048784095e-12

solution no.:29
solution:(0.5235982764639376, 6.158549700881869, 5.547422946866848, 3.6651919234416
814, 1.7829591546520687, 1.171833932502099, 6.806785280890437)
nature = saddle point

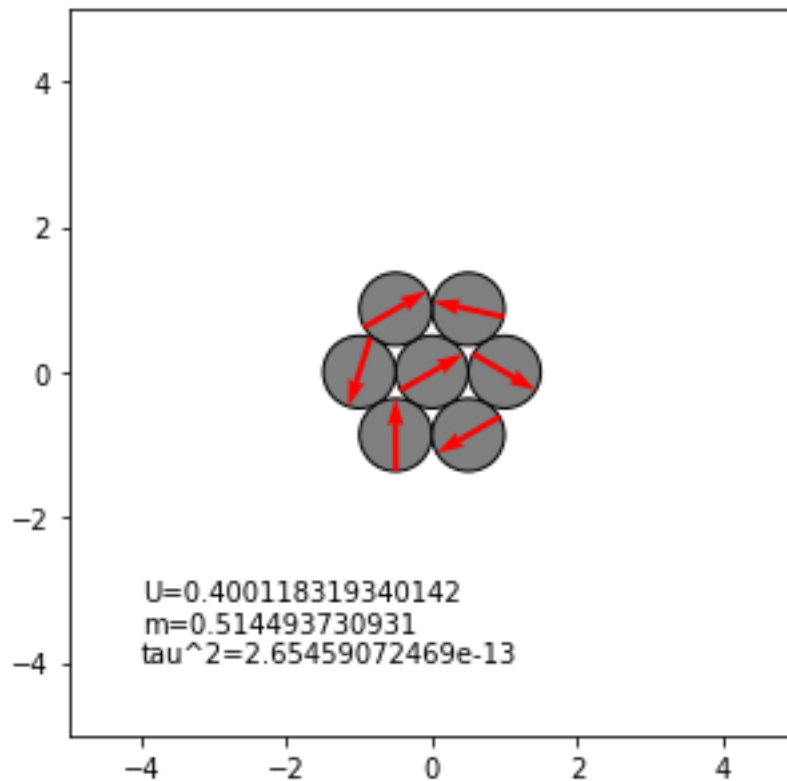U=-0.695526700558431
m=3.20715262745
tau^2=1.42223203609e-12

solution no.:30
solution:(0.5235989654393193, 3.5286124459214316, 0.6289892617657681, 0.52359877966
44427, 0.41820835758887986, 3.8017704372213132, 0.5235983461942672)
nature = saddle point

U=-0.284959938609561
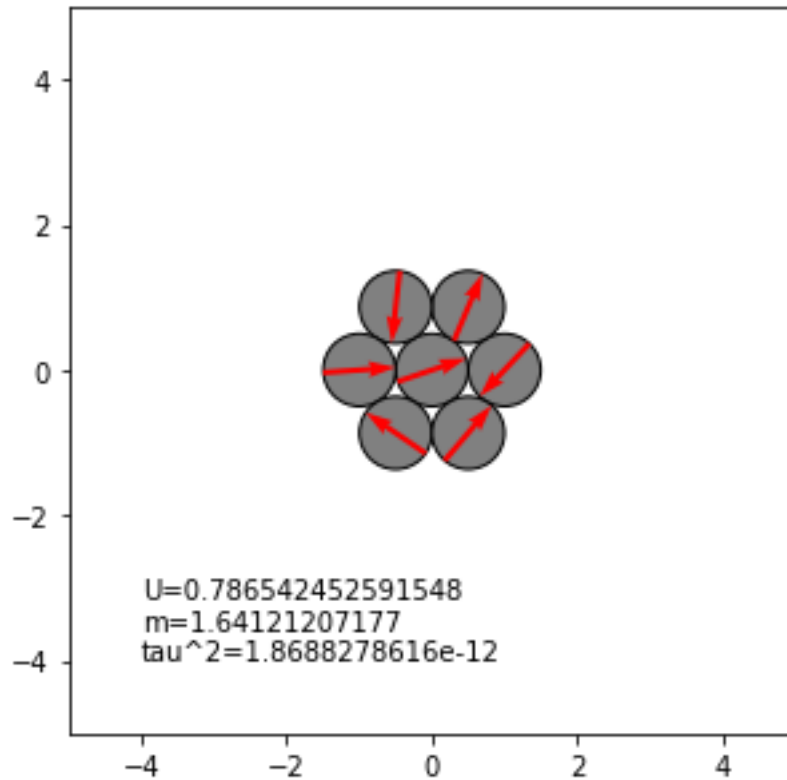m=3.00752797252
tau^2=8.28686553361e-12

solution no.:31
solution:(1.0471975588158673, 3.816717142711478, 1.0471975351952563, 4.560863282058
281, 0.8847658762596579, 1.0471975527812778, 1.2096292054974622)
nature = saddle point

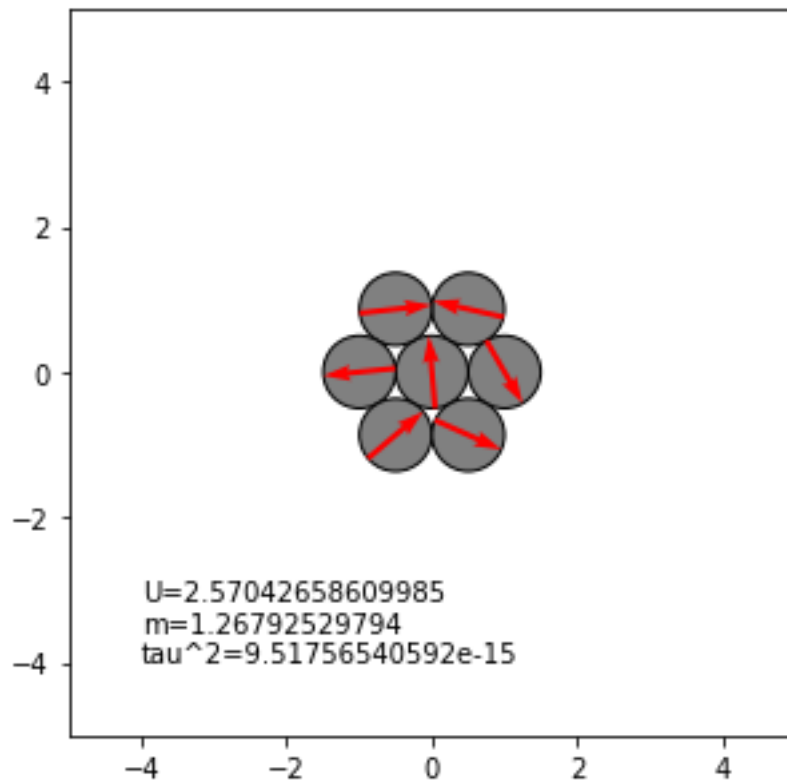U=0.216147715558935
m=3.11052253563
tau^2=7.47819330059e-15

solution no.:32
solution:(0.5235987796169177, 5.756774572994435, 2.9279353872753306, 0.523598798749
7623, 4.402447667832442, 1.5736082978885018, 3.6651913758977095)
nature = saddle point

U=0.400118319340142
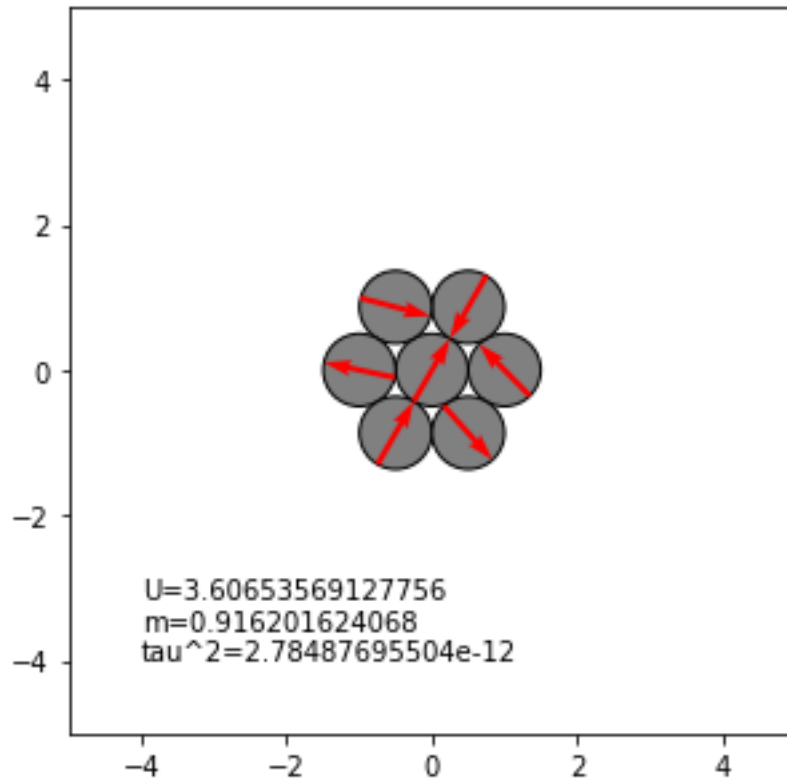m=0.514493730931
tau^2=2.65459072469e-13

solution no.:33
solution:(0.3254512427128648, 3.955659119774773, 1.1677797486840438, 4.600547555778
28, 6.355049120181414, 2.542810489594931, 0.8628855239167672)
nature = saddle point

U=0.786542452591548
m=1.64121207177
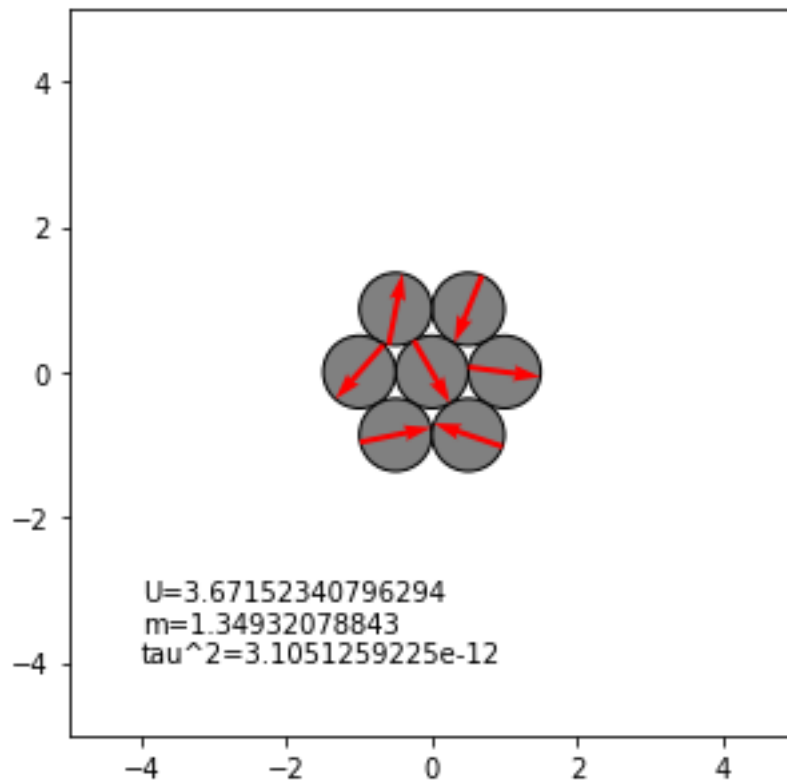tau^2=1.8688278616e-12

solution no.:34
solution:(1.657292779919758, 5.237232346557276, 2.9201614149363513, 6.3962309139569
81, 3.241964377227207, 0.7019888511791609, -0.4177767474806229)
nature = saddle point

U=2.57042658609985
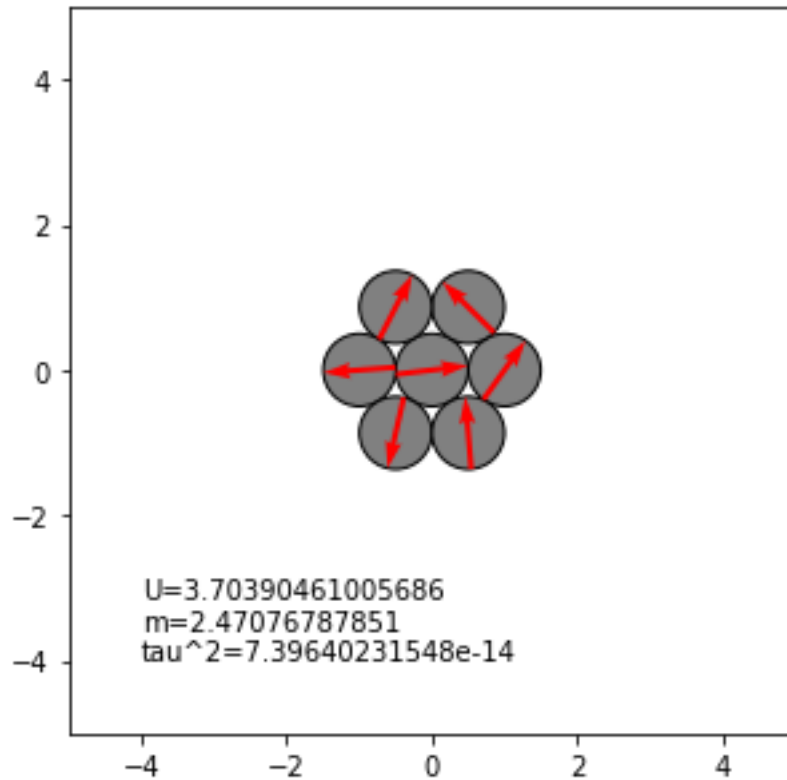m=1.26792529794
tau^2=9.51756540592e-15

solution no.:35
solution:(1.047197726696001, 2.347122714195055, 4.188790170791079, 6.03045733728688
4, 2.9326294990349355, 1.047197443929725, -0.8382342970625246)
nature = saddle point

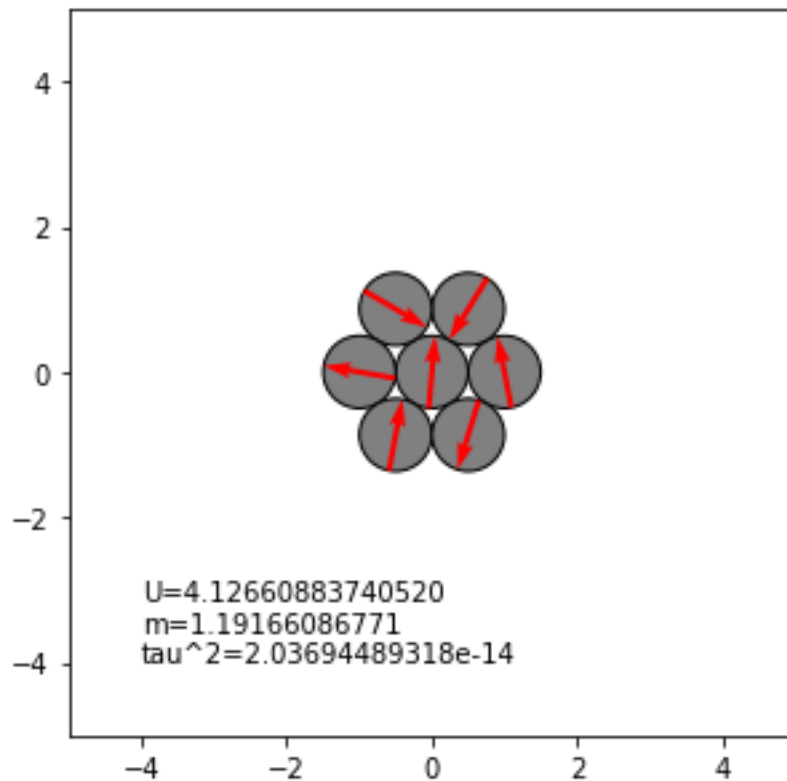U=3.60653569127756
m=0.916201624068
tau^2=2.78487695504e-12

solution no.:36
solution:(-1.047197012188713, -0.13463087005777552, 4.323421323229867, 7.6598306504
82837, 3.986944928043483, 6.4850300312926885, 2.8121440938752844)
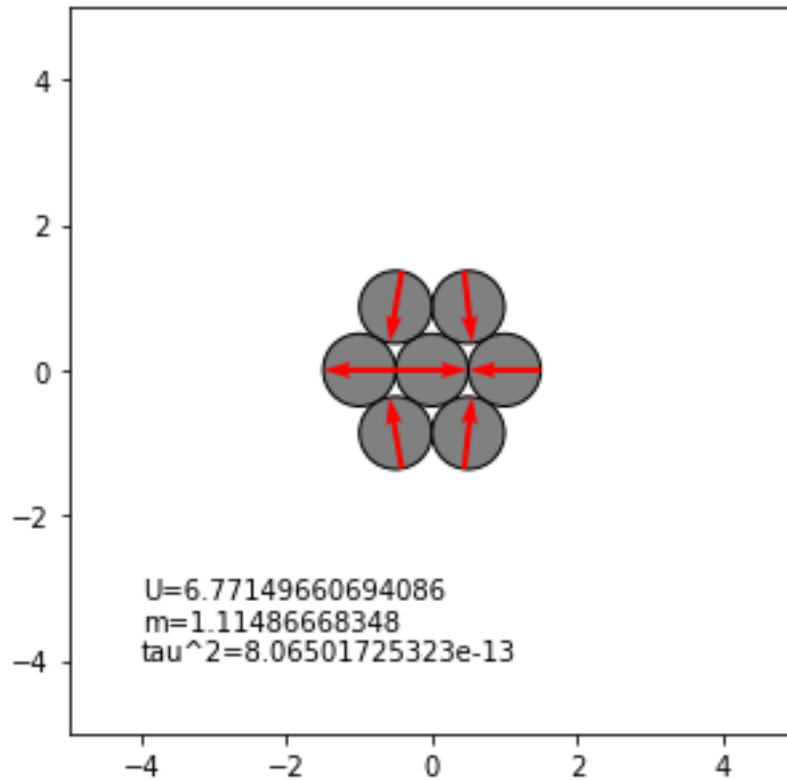nature = saddle point

U=3.67152340796294
m=1.34932078843
tau^2=3.1051259225e-12

solution no.:37
solution:(0.12101657084983114, 0.9484903799482931, 2.3652791944759852, 1.0963112505
389967, 3.216127169038891, 4.487128486628497, 1.6546514670832666)
nature = saddle point

U=3.70390461005686
m=2.47076787851
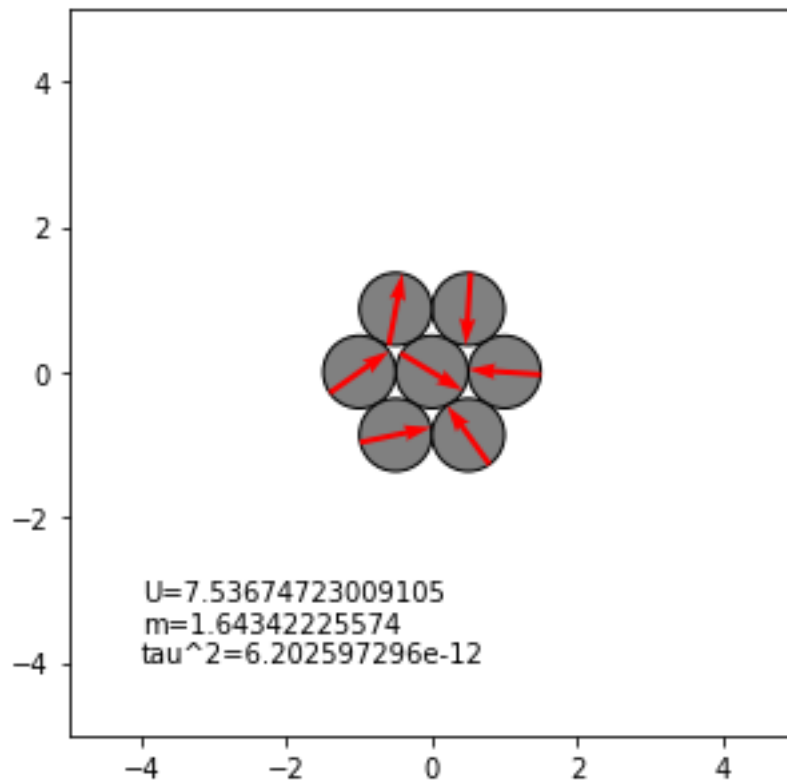tau^2=7.39640231548e-14

solution no.:38
solution:(1.4854682350471353, 1.762811861550341, 4.158443592142525, 5.7562455771357
61, 2.9681436619548487, 1.3850849943006878, 4.414794629635841)
nature = saddle point

U=4.12660883740520
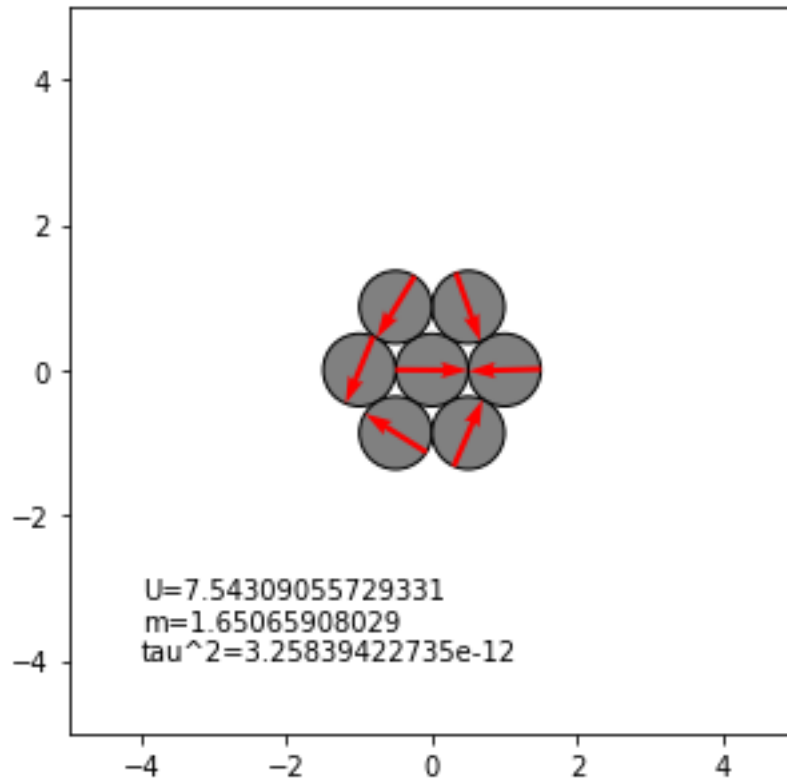m=1.19166086771
tau^2=2.03694489318e-14

solution no.:39
solution:(-2.0815651859955057e-07, 3.141592605597157, 4.82615900327137, 4.540587141
913956, 3.141593045738887, 1.7425982099800534, 1.4570265671061784)
nature = saddle point

U=6.77149660694086
m=1.11486668348
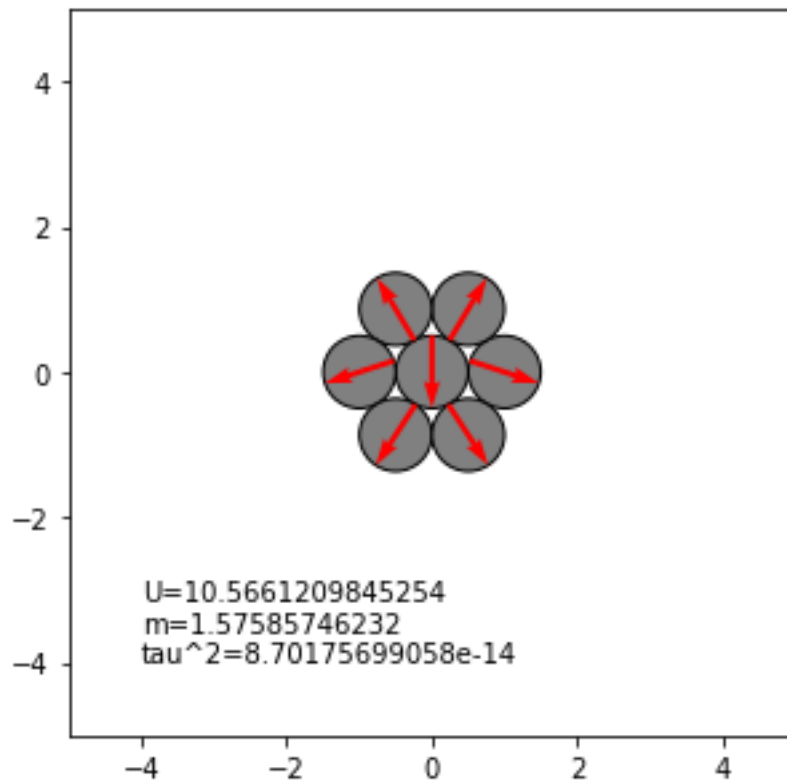tau^2=8.06501725323e-13

solution no.:40
solution:(-0.5404540599060764, 3.069655355646301, 4.644202423463045, 1.381485569781
55, 0.6125376730519623, 0.20854609615864012, 2.1978188859746832)
nature = saddle point

U=7.536747723009105
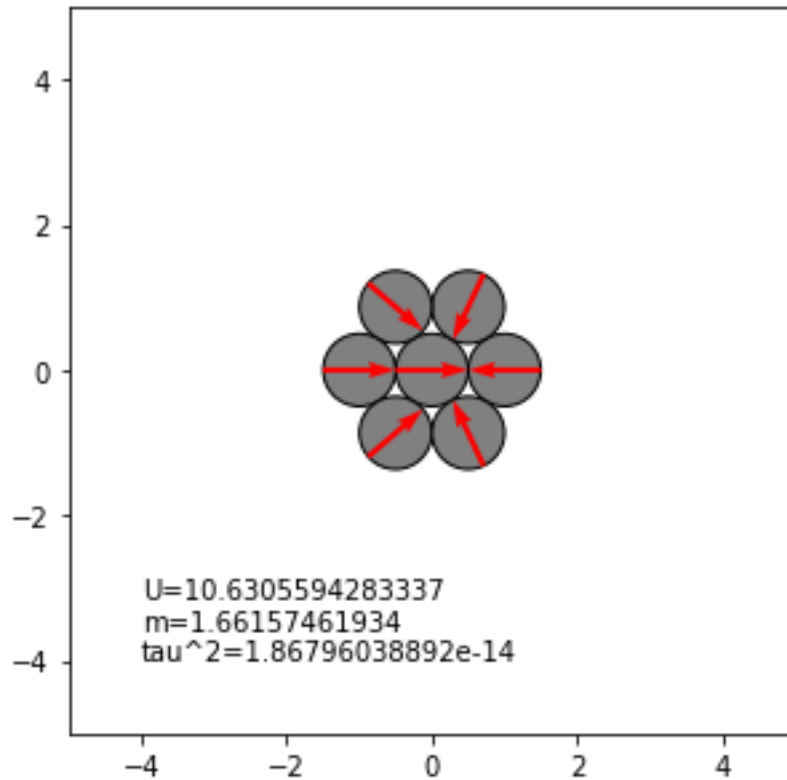m=1.64342225574
tau^2=6.202597296e-12

solution no.:41
solution:(-0.005905049806346631, 3.16688293902599, 5.055493352150695, 4.16211238026
3085, 4.3219110446807045, 2.58096092458669, 7.445307606107345)
nature = saddle point

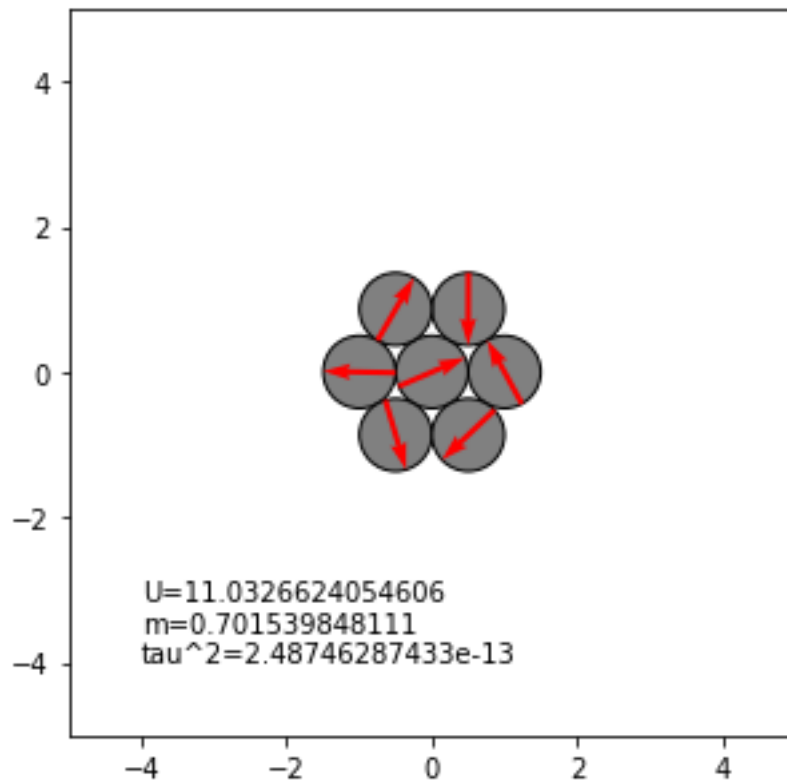U=7.54309055729331
m=1.65065908029
tau^2=3.25839422735e-12

solution no.:42
solution:(-1.5707965601517835, -0.31412519887831, 1.0307862520451065, 2.11080644755
43884, 3.4557179822899773, 4.132726374940922, 5.292051361331078)
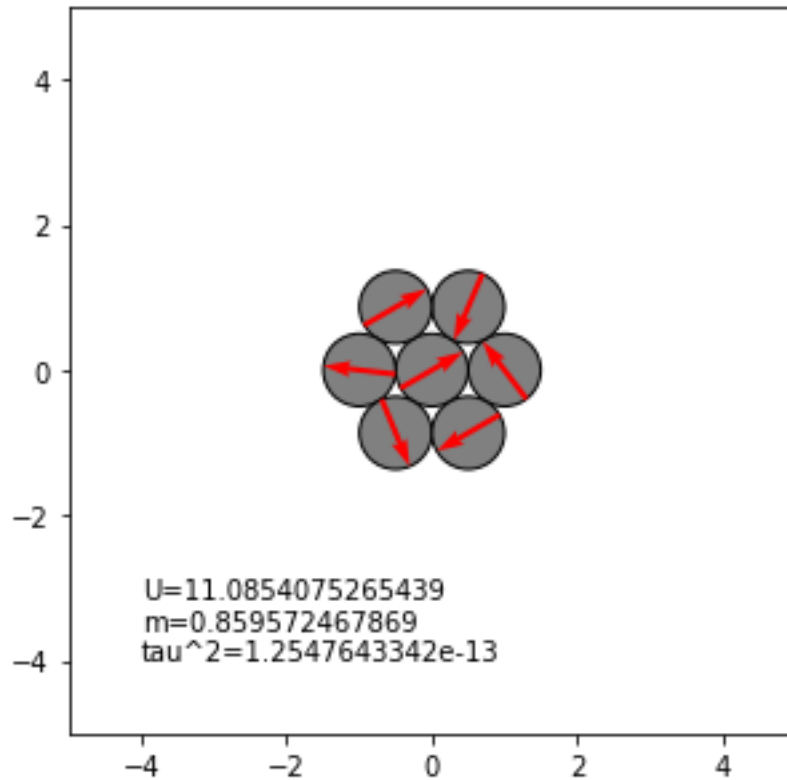nature = saddle point

U=10.5661209845254
m=1.57585746232
tau^2=8.70175699058e-14

solution no.:43
solution:(-1.3543736491078575e-08, 3.1415926642699845, 4.272377496973157, -0.712488
9342842707, 6.283185323000091, 0.712488959525062, 2.010807776397724)
nature = saddle point

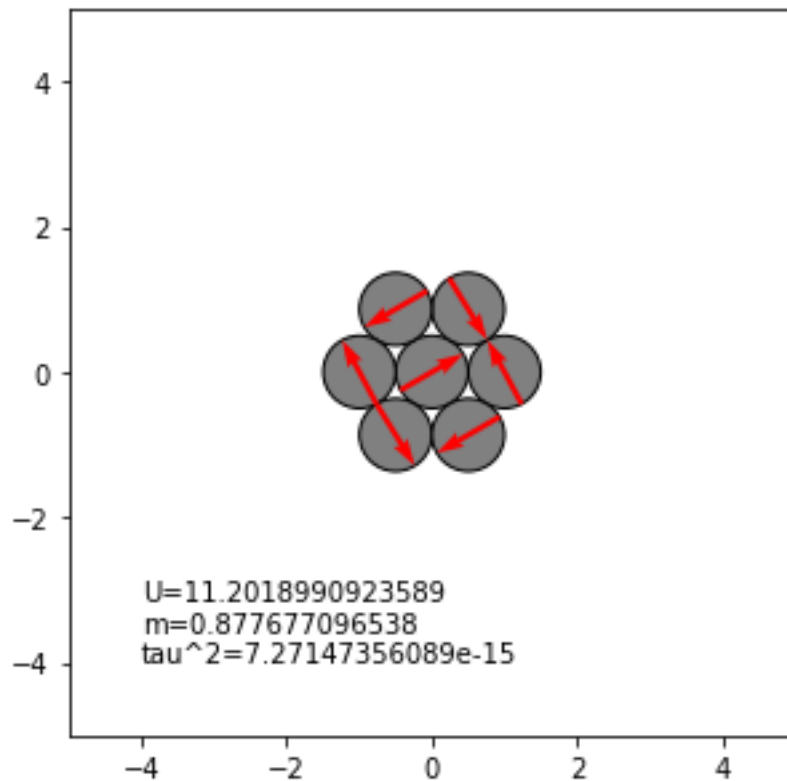U=10.6305594283337
m=1.66157461934
tau^2=1.86796038892e-14

solution no.:44
solution:(0.40541419636662984, 2.0713965781518207, 4.70820806024436385, 7.3275436462
10977, 3.120351773207193, 5.001512839985085, 3.8983563564654773)
nature = saddle point

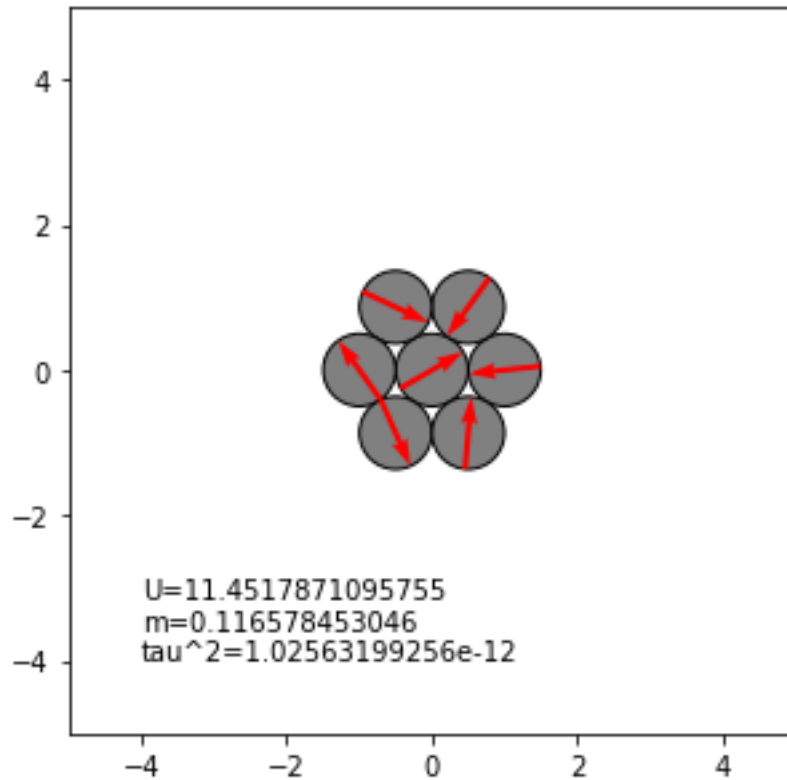U=11.0326624054606
m=0.701539848111
tau^2=2.48746287433e-13

solution no.:45
solution:(0.5235987488417384, 2.2226186844599867, 4.305496328238508, 6.806784292264
603, 3.024866512094894, 5.107764071453352, 3.6651914556256138)
nature = saddle point

U=11.0854075265439
m=0.859572467869
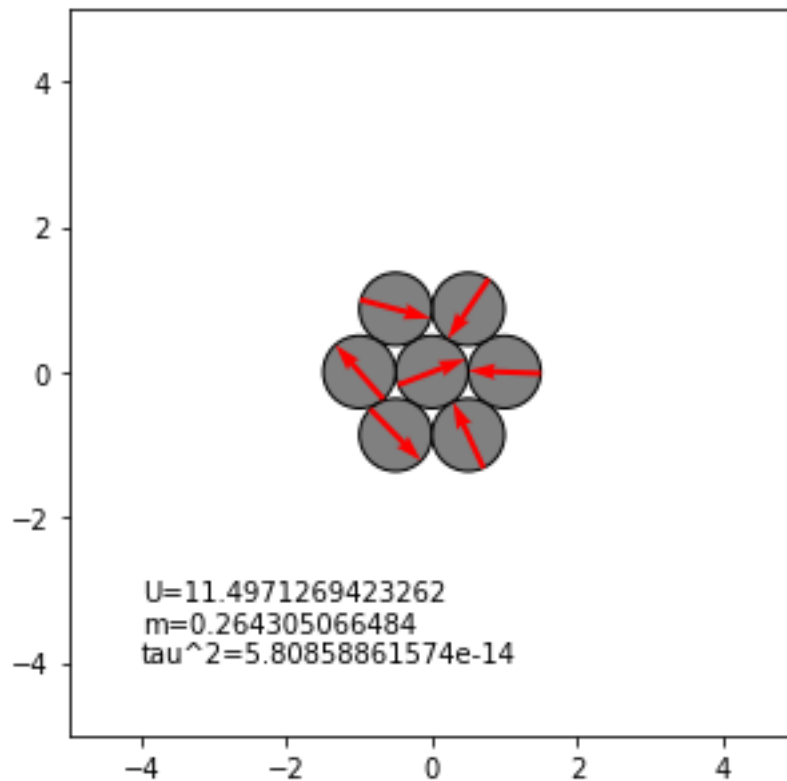tau^2=1.2547643342e-13

solution no.:46
solution:(0.5235987653392696, 2.063809623768, 5.2665732339604645, 3.665191450479178
, 2.0638095888618593, 5.266573263010768, 3.6651913860978453)
nature = saddle point

U=11.20189909223589
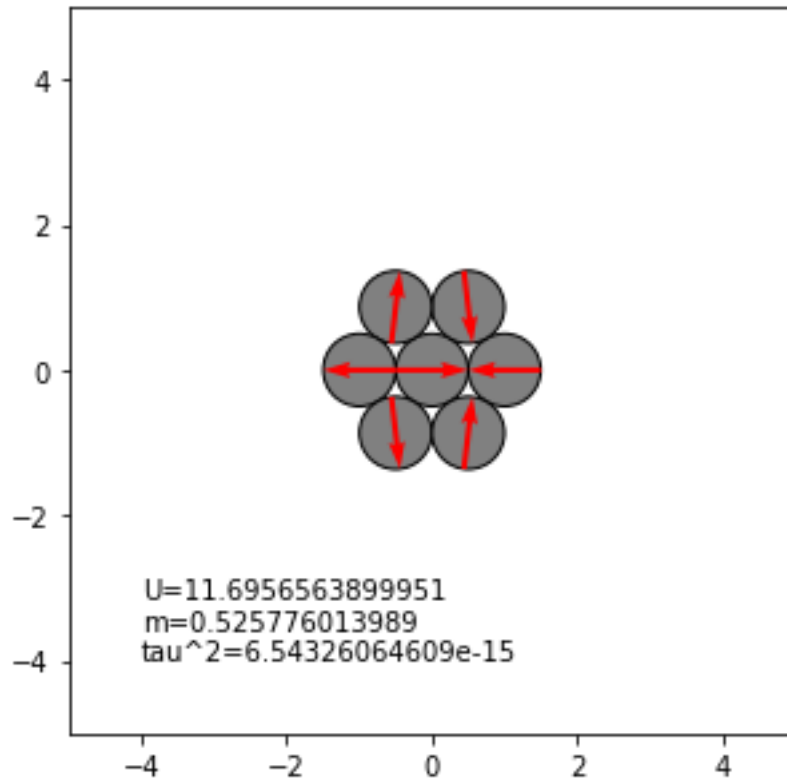m=0.877677096538
tau^2=7.27147356089e-15

solution no.:47
solution:(0.5235987019281066, 3.2472963855358987, 4.08308653578388, -0.436652341217
7772, 2.195647868634336, -1.1484499153825967, 1.483850285648317)
nature = saddle point

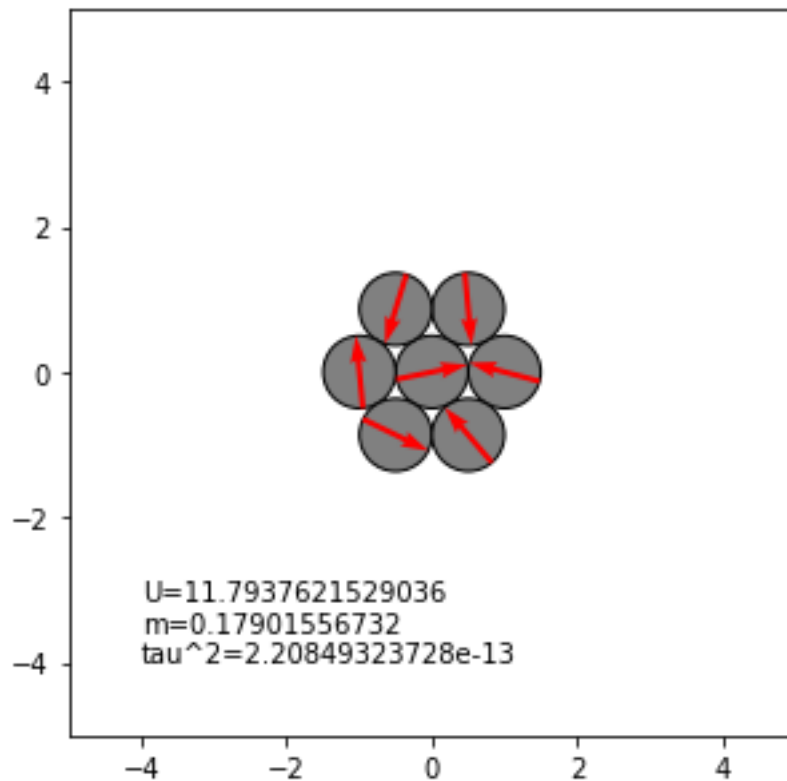U=11.4517871095755
m=0.116578453046
tau^2=1.02563199256e-12

solution no.:48
solution:(0.36606330053141833, 3.100753761623406, 4.113267903323177, 6.023729869396
9015, 2.2945741110543016, 5.490484048568332, 2.0049820616873664)
nature = saddle point

U=11.4971269423262
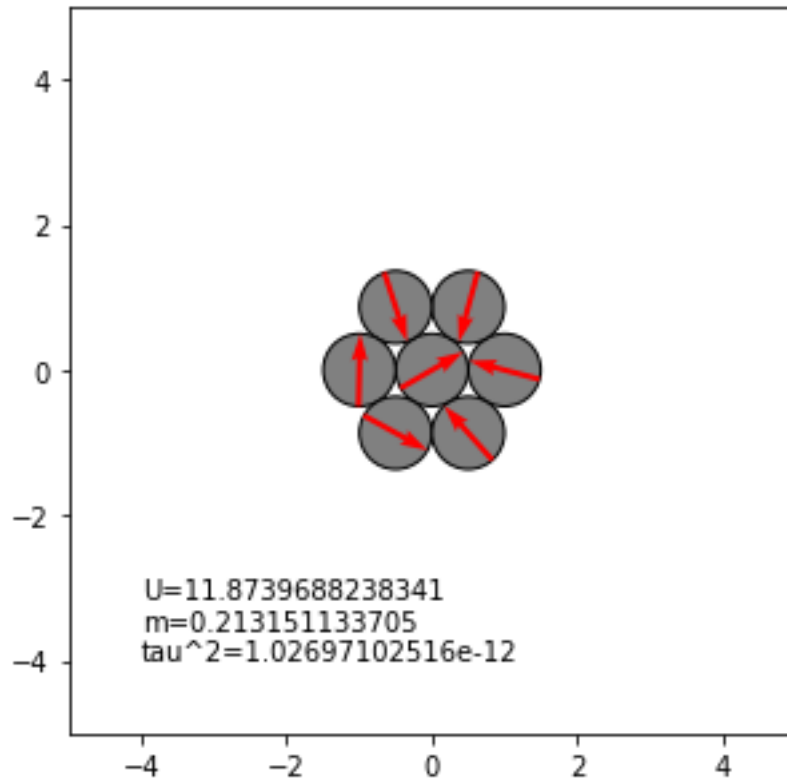m=0.264305066484
tau^2=5.80858861574e-14

solution no.:49
solution:(1.4389226150143164e-09, 3.141592672672245, 4.831224478340417, 1.451960857
6959653, 3.1415926374207404, 4.831224480994818, 1.4519608114694853)
nature = saddle point

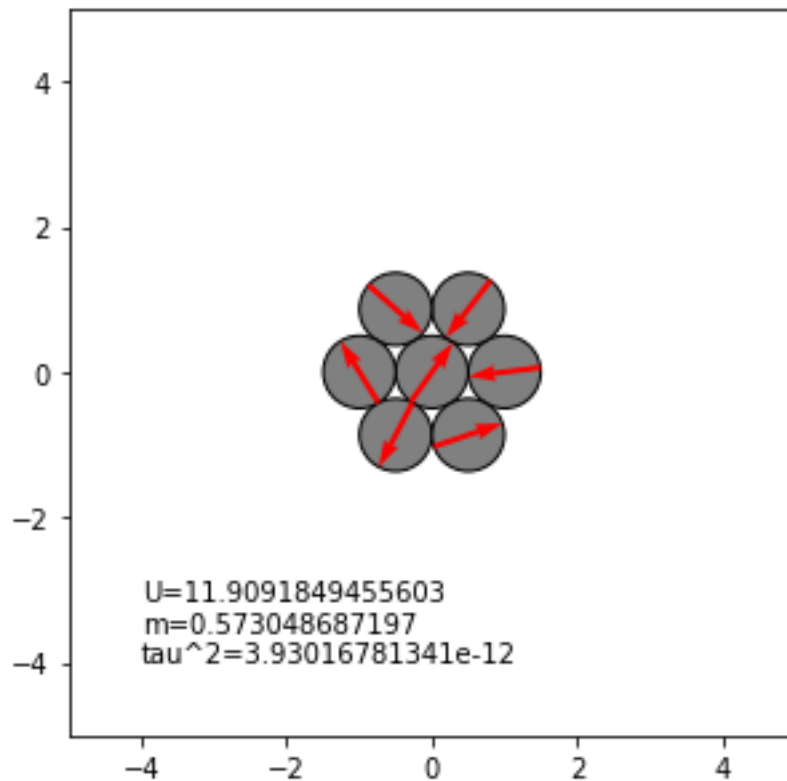U=11.6956563899951
m=0.525776013989
tau^2=6.54326064609e-15

solution no.:50
solution:(0.20278029758841185, 2.883329686127589, 4.805758315895726, 4.414561051672
45, 1.6657568109163052, -0.45069378062360443, 2.2797795925001596)
nature = saddle point

U=11.7937621529036
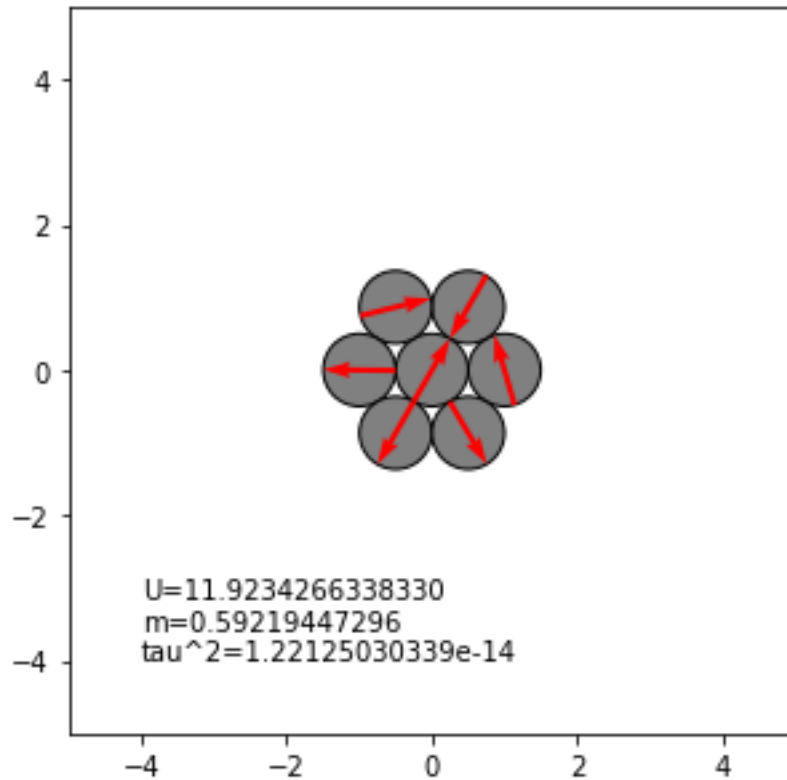m=0.17901556732
tau^2=2.20849323728e-13

solution no.:51
solution:(0.523599158306917, 2.883474774690648, 4.446907708246882, 5.03054310440626
9, 1.5472119824371988, -0.5000147249012352, 2.299840143116258)
nature = local maximum

U=11.8739688238341
m=0.213151133705
tau^2=1.02697102516e-12

solution no.:52
solution:(0.9484887869761385, 3.266293311445145, 4.046963155758769, 5.5601948675119
6, 2.1248133882371425, 4.226693875520737, 0.32614728440782936)
nature = saddle point

U=11.9091849455603
m=0.573048687197
tau^2=3.93016781341e-12

solution no.:53
solution:(1.04719758626157, 1.8520749808634875, 4.188790155777039, 0.24231999262670
58, 3.1292769920881307, 4.1887902779980735, 5.248303195493667)
nature = local maximum

U=11.9234266338330
m=0.59219447296
tau^2=1.22125030339e-14

solution no.:54
solution:(0.5235987637689377, 3.5824491832423266, 3.7479336695606196, 0.52359873986
92434, 3.582449494109118, 3.7479333728495887, 0.5235987957210118)
nature = local maximum

U=12.8646982107717
m=0.986315302749
tau^2=1.04771636408e-13