

```
1 C:\Users\yurai\AppData\Local\Programs\Python\Python36\python.exe D:/bachelorthesis/libpointingfork/libpointing/bindings/Python/cython/ml/advLR.py
2 C:\Users\yurai\AppData\Local\Programs\Python\Python36\lib\site-packages\h5py\__init__.py:
36: FutureWarning: Conversion of the second argument of issubdtype from `float` to `np.floating` is deprecated. In future, it will be treated as `np.float64 == np.dtype(float).type`.
3     from ._conv import register_converters as _register_converters
4 Using TensorFlow backend.
5 [[ 1.          -3.           -2.
   .          ... -288.
6   -2.61999983 -1.74666655]
7   [ 1.          -2.           -3.
   .          ... -286.
8   -1.74666655 -2.61999983]
9   [ 1.          -3.           -4.
   .          ... -282.
10  -3.03599989 -4.04799986]
11 ...
12  [ 47.          -3.           -1.
   .          ... 23.
13  -2.61999983 -0.87333328]
14  [ 47.          -3.            0
   .          ... 23.
15  -2.61999983 -0.          ]
16  [ 47.          -3.            0
   .          ... 23.
17  -2.61999983 -0.          ]]
18 [[0.          0.33333333 0.5106383 ... 0.
   42581888 0.34369018 0.57996054]
19 [0.          0.34567901 0.4893617 ... 0.]
```

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19 4271034 0.34761561 0.57237746]
20 [0.          0.33333333 0.46808511 ... 0.
    42967245 0.34182036 0.55997827]
21 ...
22 [1.          0.33333333 0.53191489 ... 0.
    62556198 0.34369018 0.58754361]
23 [1.          0.33333333 0.55319149 ... 0.
    62556198 0.34369018 0.59512669]
24 [1.          0.33333333 0.55319149 ... 0.
    62556198 0.34369018 0.59512669]]
25 [[-2.61999983 -1.74666655]
26 [-1.74666655 -2.61999983]
27 [-3.03599989 -4.04799986]
28 ...
29 [-2.61999983 -0.87333328]
30 [-2.61999983 -0.          ]
31 [-2.61999983 -0.          ] ]
32 [[0.41215554 0.41241517]
33 [0.41241517 0.41215554]
34 [0.41203187 0.41173101]
35 ...
36 [0.41215554 0.4126748 ]
37 [0.41215554 0.41293443]
38 [0.41215554 0.41293443]]
39 Epoch 1/5000
40 2018-08-06 15:00:08.225967: I T:\src\github\
    tensorflow\tensorflow\core\platform\
    cpu_feature_guard.cc:140] Your CPU supports
    instructions that this TensorFlow binary was
    not compiled to use: AVX2
41 - 0s - loss: 0.0267
42 Epoch 2/5000
43 - 0s - loss: 0.0014
44 Epoch 3/5000
45 - 0s - loss: 7.4183e-04
46 Epoch 4/5000
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47 - 0s - loss: 4.4896e-04
48 Epoch 5/5000
49 - 0s - loss: 2.5715e-04
50 Epoch 6/5000
51 - 0s - loss: 1.4619e-04
52 Epoch 7/5000
53 - 0s - loss: 7.9798e-05
54 Epoch 8/5000
55 - 0s - loss: 4.5846e-05
56 Epoch 9/5000
57 - 0s - loss: 3.1170e-05
58 Epoch 10/5000
59 - 0s - loss: 2.3432e-05
60 Epoch 11/5000
61 - 0s - loss: 1.9757e-05
62 Epoch 12/5000
63 - 0s - loss: 1.6815e-05
64 Epoch 13/5000
65 - 0s - loss: 1.4209e-05
66 Epoch 14/5000
67 - 0s - loss: 1.2889e-05
68 Epoch 15/5000
69 - 0s - loss: 1.1001e-05
70 Epoch 16/5000
71 - 0s - loss: 9.3544e-06
72 Epoch 17/5000
73 - 0s - loss: 8.5896e-06
74 Epoch 18/5000
75 - 0s - loss: 7.2977e-06
76 Epoch 19/5000
77 - 0s - loss: 6.7861e-06
78 Epoch 20/5000
79 - 0s - loss: 5.8175e-06
80 Epoch 21/5000
81 - 0s - loss: 5.5570e-06
82 Epoch 22/5000
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83  - 0s - loss: 4.9974e-06
84 Epoch 23/5000
85  - 0s - loss: 4.3933e-06
86 Epoch 24/5000
87  - 0s - loss: 4.2433e-06
88 Epoch 25/5000
89  - 0s - loss: 3.8601e-06
90 Epoch 26/5000
91  - 0s - loss: 3.1439e-06
92 Epoch 27/5000
93  - 0s - loss: 2.9585e-06
94 Epoch 28/5000
95  - 0s - loss: 2.7032e-06
96 Epoch 29/5000
97  - 0s - loss: 2.6794e-06
98 Epoch 30/5000
99  - 0s - loss: 2.3359e-06
100 Epoch 31/5000
101 - 0s - loss: 2.2958e-06
102 Epoch 32/5000
103 - 0s - loss: 2.1691e-06
104 Epoch 33/5000
105 - 0s - loss: 2.1184e-06
106 Epoch 34/5000
107 - 0s - loss: 1.9663e-06
108 Epoch 35/5000
109 - 0s - loss: 1.9927e-06
110 Epoch 36/5000
111 - 0s - loss: 1.6895e-06
112 Epoch 37/5000
113 - 0s - loss: 1.6550e-06
114 Epoch 38/5000
115 - 0s - loss: 1.6814e-06
116 Epoch 39/5000
117 - 0s - loss: 1.4524e-06
118 Epoch 40/5000
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119  - 0s - loss: 1.5911e-06
120 Epoch 41/5000
121  - 0s - loss: 1.5393e-06
122 Epoch 42/5000
123  - 0s - loss: 1.3361e-06
124 Epoch 43/5000
125  - 0s - loss: 1.1570e-06
126 Epoch 44/5000
127  - 0s - loss: 1.1214e-06
128 Epoch 45/5000
129  - 0s - loss: 1.0983e-06
130 Epoch 46/5000
131  - 0s - loss: 1.1751e-06
132 Epoch 47/5000
133  - 0s - loss: 8.9131e-07
134 Epoch 48/5000
135  - 0s - loss: 5.6197e-07
136 Epoch 49/5000
137  - 0s - loss: 8.9392e-07
138 Epoch 50/5000
139  - 0s - loss: 7.8557e-07
140 Epoch 51/5000
141  - 0s - loss: 6.6119e-07
142 Epoch 52/5000
143  - 0s - loss: 7.7000e-07
144 Epoch 53/5000
145  - 0s - loss: 5.1250e-07
146 Epoch 54/5000
147  - 0s - loss: 6.6428e-07
148 Epoch 55/5000
149  - 0s - loss: 4.6818e-07
150 Epoch 56/5000
151  - 0s - loss: 7.4305e-07
152 Epoch 57/5000
153  - 0s - loss: 4.9496e-07
154 Epoch 58/5000
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155 - 0s - loss: 6.3566e-07
156 Epoch 59/5000
157 - 0s - loss: 5.4980e-07
158 Epoch 60/5000
159 - 0s - loss: 5.7367e-07
160 Epoch 61/5000
161 - 0s - loss: 1.0980e-06
162 Epoch 62/5000
163 - 0s - loss: 4.2422e-07
164 Epoch 63/5000
165 - 0s - loss: 4.7859e-07
166 Epoch 64/5000
167 - 0s - loss: 5.1777e-07
168 Epoch 65/5000
169 - 0s - loss: 5.7536e-07
170 Epoch 66/5000
171 - 0s - loss: 4.8488e-07
172 Epoch 67/5000
173 - 0s - loss: 6.1432e-07
174 Epoch 68/5000
175 - 0s - loss: 6.2914e-07
176 Epoch 69/5000
177 - 0s - loss: 6.0005e-07
178 Epoch 70/5000
179 - 0s - loss: 4.6623e-07
180 Epoch 71/5000
181 - 0s - loss: 5.7333e-07
182 Epoch 72/5000
183 - 0s - loss: 4.4799e-07
184 Epoch 73/5000
185 - 0s - loss: 3.9841e-07
186 Epoch 74/5000
187 - 0s - loss: 6.5926e-07
188 Epoch 75/5000
189 - 0s - loss: 6.1542e-07
190 Epoch 76/5000
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191 - 0s - loss: 6.1820e-07
192 Epoch 77/5000
193 - 0s - loss: 6.0527e-07
194 Epoch 78/5000
195 - 0s - loss: 2.8682e-07
196 Epoch 79/5000
197 - 0s - loss: 4.6306e-07
198 Epoch 80/5000
199 - 0s - loss: 6.2137e-07
200 Epoch 81/5000
201 - 0s - loss: 1.4900e-06
202 Epoch 82/5000
203 - 0s - loss: 2.5236e-07
204 Epoch 83/5000
205 - 0s - loss: 2.5059e-07
206 Epoch 84/5000
207 - 0s - loss: 2.5803e-07
208 Epoch 85/5000
209 - 0s - loss: 6.1438e-07
210 Epoch 86/5000
211 - 0s - loss: 4.0550e-07
212 Epoch 87/5000
213 - 0s - loss: 4.0605e-07
214 Epoch 88/5000
215 - 0s - loss: 5.2604e-07
216 Epoch 89/5000
217 - 0s - loss: 5.2923e-07
218 Epoch 90/5000
219 - 0s - loss: 4.1854e-07
220 Epoch 91/5000
221 - 0s - loss: 5.1232e-07
222 Epoch 92/5000
223 - 0s - loss: 3.7414e-07
224 Epoch 93/5000
225 - 0s - loss: 4.6260e-07
226 Epoch 94/5000
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227 - 0s - loss: 6.6048e-07
228 Epoch 95/5000
229 - 0s - loss: 4.7440e-07
230 Epoch 96/5000
231 - 0s - loss: 3.5121e-07
232 Epoch 97/5000
233 - 0s - loss: 4.6766e-07
234 Epoch 98/5000
235 - 0s - loss: 3.6467e-07
236 Epoch 99/5000
237 - 0s - loss: 3.9790e-07
238 Epoch 100/5000
239 - 0s - loss: 1.0322e-06
240 Epoch 101/5000
241 - 0s - loss: 2.6389e-07
242 Epoch 102/5000
243 - 0s - loss: 4.8915e-07
244 Epoch 103/5000
245 - 0s - loss: 3.1103e-07
246 Epoch 104/5000
247 - 0s - loss: 3.1711e-07
248 Epoch 105/5000
249 - 0s - loss: 4.3250e-07
250 Epoch 106/5000
251 - 0s - loss: 5.1288e-07
252 Epoch 107/5000
253 - 0s - loss: 4.1453e-07
254 Epoch 108/5000
255 - 0s - loss: 3.8874e-07
256 Epoch 109/5000
257 - 0s - loss: 5.6392e-07
258 Epoch 110/5000
259 - 0s - loss: 3.4082e-07
260 Epoch 111/5000
261 - 0s - loss: 2.5595e-07
262 Epoch 112/5000
```

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263 - 0s - loss: 5.4929e-07
264 Epoch 113/5000
265 - 0s - loss: 5.1091e-07
266 Epoch 114/5000
267 - 0s - loss: 3.1440e-07
268 Epoch 115/5000
269 - 0s - loss: 4.5144e-07
270 Epoch 116/5000
271 - 0s - loss: 3.6718e-07
272 Epoch 117/5000
273 - 0s - loss: 4.0217e-07
274 Epoch 118/5000
275 - 0s - loss: 3.2374e-07
276 Epoch 119/5000
277 - 0s - loss: 6.5859e-07
278 Epoch 120/5000
279 - 0s - loss: 2.0095e-07
280 Epoch 121/5000
281 - 0s - loss: 2.9559e-07
282 Epoch 122/5000
283 - 0s - loss: 6.2176e-07
284 Epoch 123/5000
285 - 0s - loss: 4.0050e-07
286 Epoch 124/5000
287 - 0s - loss: 6.0353e-07
288 Epoch 125/5000
289 - 0s - loss: 3.8298e-07
290 Epoch 126/5000
291 - 0s - loss: 3.8015e-07
292 Epoch 127/5000
293 - 0s - loss: 4.5934e-07
294 Epoch 128/5000
295 - 0s - loss: 3.1234e-07
296 Epoch 129/5000
297 - 0s - loss: 4.7780e-07
298 Epoch 130/5000
```

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299 - 0s - loss: 2.8378e-07
300 Epoch 131/5000
301 - 0s - loss: 3.8388e-07
302 Epoch 132/5000
303 - 0s - loss: 2.7084e-07
304 Epoch 133/5000
305 - 0s - loss: 3.4248e-07
306 Epoch 134/5000
307 - 0s - loss: 7.8336e-07
308 Epoch 135/5000
309 - 0s - loss: 3.8172e-07
310 Epoch 136/5000
311 - 0s - loss: 2.1803e-07
312 Epoch 137/5000
313 - 0s - loss: 2.9108e-07
314 Epoch 138/5000
315 - 0s - loss: 3.4097e-07
316 Epoch 139/5000
317 - 0s - loss: 3.4333e-07
318 Epoch 140/5000
319 - 0s - loss: 3.1591e-07
320 Epoch 141/5000
321 - 0s - loss: 6.8397e-07
322 Epoch 142/5000
323 - 0s - loss: 2.3985e-07
324 Epoch 143/5000
325 - 0s - loss: 3.6612e-07
326 Epoch 144/5000
327 - 0s - loss: 3.3017e-07
328 Epoch 145/5000
329 - 0s - loss: 3.0627e-07
330 Epoch 146/5000
331 - 0s - loss: 4.8809e-07
332 Epoch 147/5000
333 - 0s - loss: 3.0910e-07
334 Epoch 148/5000
```

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335 - 0s - loss: 2.8626e-07
336 Epoch 149/5000
337 - 0s - loss: 8.2620e-07
338 Epoch 150/5000
339 - 0s - loss: 1.4285e-07
340 Epoch 151/5000
341 - 0s - loss: 1.9324e-07
342 Epoch 152/5000
343 - 0s - loss: 3.5762e-07
344 Epoch 153/5000
345 - 0s - loss: 3.4445e-07
346 Epoch 154/5000
347 - 0s - loss: 3.2792e-07
348 Epoch 155/5000
349 - 0s - loss: 2.5161e-07
350 Epoch 156/5000
351 - 0s - loss: 4.5352e-07
352 Epoch 157/5000
353 - 0s - loss: 2.9567e-07
354 Epoch 158/5000
355 - 0s - loss: 5.9280e-07
356 Epoch 159/5000
357 - 0s - loss: 3.1574e-07
358 Epoch 160/5000
359 - 0s - loss: 2.0255e-07
360 Epoch 161/5000
361 - 0s - loss: 4.0799e-07
362 Epoch 162/5000
363 - 0s - loss: 2.6227e-07
364 Epoch 163/5000
365 - 0s - loss: 5.1652e-07
366 Epoch 164/5000
367 - 0s - loss: 3.5931e-07
368 Epoch 165/5000
369 - 0s - loss: 2.1868e-07
370 Epoch 166/5000
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371 - 0s - loss: 3.4906e-07
372 Epoch 167/5000
373 - 0s - loss: 2.5780e-07
374 Epoch 168/5000
375 - 0s - loss: 5.5319e-07
376 Epoch 169/5000
377 - 0s - loss: 2.7098e-07
378 Epoch 170/5000
379 - 0s - loss: 1.8986e-07
380 Epoch 171/5000
381 - 0s - loss: 2.2228e-07
382 Epoch 172/5000
383 - 0s - loss: 1.4464e-06
384 Epoch 173/5000
385 - 0s - loss: 3.6166e-07
386 Epoch 174/5000
387 - 0s - loss: 7.2335e-08
388 Epoch 175/5000
389 - 0s - loss: 1.9418e-07
390 Epoch 176/5000
391 - 0s - loss: 1.5556e-07
392 Epoch 177/5000
393 - 0s - loss: 3.0400e-07
394 Epoch 178/5000
395 - 0s - loss: 2.7241e-07
396 Epoch 179/5000
397 - 0s - loss: 4.6589e-07
398 Epoch 180/5000
399 - 0s - loss: 1.7552e-07
400 Epoch 181/5000
401 - 0s - loss: 3.0342e-07
402 Epoch 182/5000
403 - 0s - loss: 2.7560e-07
404 Epoch 183/5000
405 - 0s - loss: 2.3855e-07
406 Epoch 184/5000
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407 - 0s - loss: 5.2886e-07
408 Epoch 185/5000
409 - 0s - loss: 2.5915e-07
410 Epoch 186/5000
411 - 0s - loss: 2.1289e-07
412 Epoch 187/5000
413 - 0s - loss: 5.8527e-07
414 Epoch 188/5000
415 - 0s - loss: 2.3064e-07
416 Epoch 189/5000
417 - 0s - loss: 2.6838e-07
418 Epoch 190/5000
419 - 0s - loss: 3.4814e-07
420 Epoch 191/5000
421 - 0s - loss: 1.8405e-07
422 Epoch 192/5000
423 - 0s - loss: 2.6188e-07
424 Epoch 193/5000
425 - 0s - loss: 2.2947e-07
426 Epoch 194/5000
427 - 0s - loss: 5.0327e-07
428 Epoch 195/5000
429 - 0s - loss: 2.9257e-07
430 Epoch 196/5000
431 - 0s - loss: 2.1248e-07
432 Epoch 197/5000
433 - 0s - loss: 2.6234e-07
434 Epoch 198/5000
435 - 0s - loss: 3.4447e-07
436 Epoch 199/5000
437 - 0s - loss: 3.8890e-07
438 Epoch 200/5000
439 - 0s - loss: 3.7051e-07
440 Epoch 201/5000
441 - 0s - loss: 1.3992e-07
442 Epoch 202/5000
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443 - 0s - loss: 6.5446e-07
444 Epoch 203/5000
445 - 0s - loss: 1.8060e-07
446 Epoch 204/5000
447 - 0s - loss: 1.6593e-07
448 Epoch 205/5000
449 - 0s - loss: 1.9843e-07
450 Epoch 206/5000
451 - 0s - loss: 1.9434e-07
452 Epoch 207/5000
453 - 0s - loss: 4.3067e-07
454 Epoch 208/5000
455 - 0s - loss: 2.0996e-07
456 Epoch 209/5000
457 - 0s - loss: 2.6203e-07
458 Epoch 210/5000
459 - 0s - loss: 4.4572e-07
460 Epoch 211/5000
461 - 0s - loss: 2.2084e-07
462 Epoch 212/5000
463 - 0s - loss: 1.4060e-07
464 Epoch 213/5000
465 - 0s - loss: 6.6135e-07
466 Epoch 214/5000
467 - 0s - loss: 5.1710e-08
468 Epoch 215/5000
469 - 0s - loss: 3.4765e-07
470 Epoch 216/5000
471 - 0s - loss: 1.1648e-07
472 Epoch 217/5000
473 - 0s - loss: 1.9732e-07
474 Epoch 218/5000
475 - 0s - loss: 6.2285e-07
476 Epoch 219/5000
477 - 0s - loss: 1.6059e-07
478 Epoch 220/5000
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479 - 0s - loss: 1.8237e-07
480 Epoch 221/5000
481 - 0s - loss: 5.1730e-07
482 Epoch 222/5000
483 - 0s - loss: 7.1355e-08
484 Epoch 223/5000
485 - 0s - loss: 2.6706e-07
486 Epoch 224/5000
487 - 0s - loss: 1.9640e-07
488 Epoch 225/5000
489 - 0s - loss: 3.1937e-07
490 Epoch 226/5000
491 - 0s - loss: 2.7687e-07
492 Epoch 227/5000
493 - 0s - loss: 2.7763e-07
494 Epoch 228/5000
495 - 0s - loss: 3.6268e-07
496 Epoch 229/5000
497 - 0s - loss: 3.8034e-07
498 Epoch 230/5000
499 - 0s - loss: 2.2499e-07
500 Epoch 231/5000
501 - 0s - loss: 2.9597e-07
502 Epoch 232/5000
503 - 0s - loss: 2.0133e-07
504 Epoch 233/5000
505 - 0s - loss: 1.1440e-07
506 Epoch 234/5000
507 - 0s - loss: 4.8249e-07
508 Epoch 235/5000
509 - 0s - loss: 1.9577e-07
510 Epoch 236/5000
511 - 0s - loss: 3.9202e-07
512 Epoch 237/5000
513 - 0s - loss: 1.8519e-07
514 Epoch 238/5000
```

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515 - 0s - loss: 1.1678e-07
516 Epoch 239/5000
517 - 0s - loss: 5.1420e-07
518 Epoch 240/5000
519 - 0s - loss: 1.1040e-07
520 Epoch 241/5000
521 - 0s - loss: 2.0329e-07
522 Epoch 242/5000
523 - 0s - loss: 4.8463e-07
524 Epoch 243/5000
525 - 0s - loss: 1.5294e-07
526 Epoch 244/5000
527 - 0s - loss: 2.5107e-07
528 Epoch 245/5000
529 - 0s - loss: 2.7559e-07
530 Epoch 246/5000
531 - 0s - loss: 3.1453e-07
532 Epoch 247/5000
533 - 0s - loss: 1.9283e-07
534 Epoch 248/5000
535 - 0s - loss: 1.2318e-07
536 Epoch 249/5000
537 - 0s - loss: 3.0124e-07
538 Epoch 250/5000
539 - 0s - loss: 3.2441e-07
540 Epoch 251/5000
541 - 0s - loss: 3.6906e-07
542 Epoch 252/5000
543 - 0s - loss: 3.3202e-07
544 Epoch 253/5000
545 - 0s - loss: 2.3337e-07
546 Epoch 254/5000
547 - 0s - loss: 1.8852e-07
548 Epoch 255/5000
549 - 0s - loss: 3.3218e-07
550 Epoch 256/5000
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551 - 0s - loss: 1.9228e-07
552 Epoch 257/5000
553 - 0s - loss: 1.7455e-07
554 Epoch 258/5000
555 - 0s - loss: 6.6330e-07
556 Epoch 259/5000
557 - 0s - loss: 8.4702e-08
558 Epoch 260/5000
559 - 0s - loss: 4.2129e-08
560 Epoch 261/5000
561 - 0s - loss: 3.6527e-07
562 Epoch 262/5000
563 - 0s - loss: 2.0114e-07
564 Epoch 263/5000
565 - 0s - loss: 2.7972e-07
566 Epoch 264/5000
567 - 0s - loss: 2.4509e-07
568 Epoch 265/5000
569 - 0s - loss: 2.5437e-07
570 Epoch 266/5000
571 - 0s - loss: 7.1024e-07
572 Epoch 267/5000
573 - 0s - loss: 2.5980e-08
574 Epoch 268/5000
575 - 0s - loss: 8.3619e-08
576 Epoch 269/5000
577 - 0s - loss: 3.8873e-07
578 Epoch 270/5000
579 - 0s - loss: 6.7253e-08
580 Epoch 271/5000
581 - 0s - loss: 6.0159e-07
582 Epoch 272/5000
583 - 0s - loss: 2.1595e-07
584 Epoch 273/5000
585 - 0s - loss: 2.0049e-07
586 Epoch 274/5000
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587 - 0s - loss: 3.1280e-07
588 Epoch 275/5000
589 - 0s - loss: 7.1295e-07
590 Epoch 276/5000
591 - 0s - loss: 2.4081e-08
592 Epoch 277/5000
593 - 0s - loss: 1.4977e-07
594 Epoch 278/5000
595 - 0s - loss: 9.3916e-08
596 Epoch 279/5000
597 - 0s - loss: 2.2650e-07
598 Epoch 280/5000
599 - 0s - loss: 2.7454e-07
600 Epoch 281/5000
601 - 0s - loss: 2.3437e-07
602 Epoch 282/5000
603 - 0s - loss: 1.5512e-07
604 Epoch 283/5000
605 - 0s - loss: 2.1727e-07
606 Epoch 284/5000
607 - 0s - loss: 1.8528e-07
608 Epoch 285/5000
609 - 0s - loss: 5.0328e-07
610 Epoch 286/5000
611 - 0s - loss: 1.8494e-07
612 Epoch 287/5000
613 - 0s - loss: 3.7888e-07
614 Epoch 288/5000
615 - 0s - loss: 1.1385e-07
616 Epoch 289/5000
617 - 0s - loss: 2.0456e-07
618 Epoch 290/5000
619 - 0s - loss: 2.7797e-07
620 Epoch 291/5000
621 - 0s - loss: 1.9466e-07
622 Epoch 292/5000
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623 - 0s - loss: 3.5223e-07
624 Epoch 293/5000
625 - 0s - loss: 1.7170e-07
626 Epoch 294/5000
627 - 0s - loss: 2.2977e-07
628 Epoch 295/5000
629 - 0s - loss: 1.6905e-07
630 Epoch 296/5000
631 - 0s - loss: 2.0435e-07
632 Epoch 297/5000
633 - 0s - loss: 2.5277e-07
634 Epoch 298/5000
635 - 0s - loss: 5.0311e-07
636 Epoch 299/5000
637 - 0s - loss: 1.5924e-07
638 Epoch 300/5000
639 - 0s - loss: 2.0192e-07
640 Epoch 301/5000
641 - 0s - loss: 3.9475e-07
642 Epoch 302/5000
643 - 0s - loss: 6.0987e-08
644 Epoch 303/5000
645 - 0s - loss: 2.2614e-07
646 Epoch 304/5000
647 - 0s - loss: 2.7550e-07
648 Epoch 305/5000
649 - 0s - loss: 4.4752e-07
650 Epoch 306/5000
651 - 0s - loss: 2.4307e-07
652 Epoch 307/5000
653 - 0s - loss: 1.6629e-07
654 Epoch 308/5000
655 - 0s - loss: 4.3385e-07
656 Epoch 309/5000
657 - 0s - loss: 5.5305e-08
658 Epoch 310/5000
```

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659 - 0s - loss: 2.1792e-07
660 Epoch 311/5000
661 - 0s - loss: 1.6542e-07
662 Epoch 312/5000
663 - 0s - loss: 4.1899e-07
664 Epoch 313/5000
665 - 0s - loss: 1.2365e-07
666 Epoch 314/5000
667 - 0s - loss: 3.3458e-07
668 Epoch 315/5000
669 - 0s - loss: 1.1680e-07
670 Epoch 316/5000
671 - 0s - loss: 2.1172e-07
672 Epoch 317/5000
673 - 0s - loss: 3.1169e-07
674 Epoch 318/5000
675 - 0s - loss: 9.6485e-08
676 Epoch 319/5000
677 - 0s - loss: 2.7279e-07
678 Epoch 320/5000
679 - 0s - loss: 4.4721e-07
680 Epoch 321/5000
681 - 0s - loss: 4.3862e-07
682 Epoch 322/5000
683 - 0s - loss: 1.3931e-07
684 Epoch 323/5000
685 - 0s - loss: 1.4302e-07
686 Epoch 324/5000
687 - 0s - loss: 1.2447e-07
688 Epoch 325/5000
689 - 0s - loss: 1.8068e-07
690 Epoch 326/5000
691 - 0s - loss: 3.0016e-07
692 Epoch 327/5000
693 - 0s - loss: 1.7887e-07
694 Epoch 328/5000
```

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695 - 0s - loss: 5.4036e-07
696 Epoch 329/5000
697 - 0s - loss: 4.2663e-07
698 Epoch 330/5000
699 - 0s - loss: 4.9902e-08
700 Epoch 331/5000
701 - 0s - loss: 1.1918e-07
702 Epoch 332/5000
703 - 0s - loss: 1.1616e-07
704 Epoch 333/5000
705 - 0s - loss: 2.4793e-07
706 Epoch 334/5000
707 - 0s - loss: 3.8716e-07
708 Epoch 335/5000
709 - 0s - loss: 1.0033e-07
710 Epoch 336/5000
711 - 0s - loss: 2.5496e-07
712 Epoch 337/5000
713 - 0s - loss: 9.2871e-08
714 Epoch 338/5000
715 - 0s - loss: 2.6494e-07
716 Epoch 339/5000
717 - 0s - loss: 2.8850e-07
718 Epoch 340/5000
719 - 0s - loss: 1.3366e-07
720 Epoch 341/5000
721 - 0s - loss: 2.1843e-07
722 Epoch 342/5000
723 - 0s - loss: 3.2514e-07
724 Epoch 343/5000
725 - 0s - loss: 2.9412e-07
726 Epoch 344/5000
727 - 0s - loss: 1.7236e-07
728 Epoch 345/5000
729 - 0s - loss: 5.3351e-07
730 Epoch 346/5000
```

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731 - 0s - loss: 5.4184e-08
732 Epoch 347/5000
733 - 0s - loss: 1.2306e-07
734 Epoch 348/5000
735 - 0s - loss: 1.9184e-07
736 Epoch 349/5000
737 - 0s - loss: 2.1205e-07
738 Epoch 350/5000
739 - 0s - loss: 1.1485e-07
740 Epoch 351/5000
741 - 0s - loss: 2.4410e-07
742 Epoch 352/5000
743 - 0s - loss: 3.0497e-07
744 Epoch 353/5000
745 - 0s - loss: 1.7384e-07
746 Epoch 354/5000
747 - 0s - loss: 5.6962e-07
748 Epoch 355/5000
749 - 0s - loss: 4.7256e-08
750 Epoch 356/5000
751 - 0s - loss: 2.8103e-07
752 Epoch 357/5000
753 - 0s - loss: 4.9187e-08
754 Epoch 358/5000
755 - 0s - loss: 3.3692e-07
756 Epoch 359/5000
757 - 0s - loss: 6.6148e-08
758 Epoch 360/5000
759 - 0s - loss: 4.8304e-07
760 Epoch 361/5000
761 - 0s - loss: 9.3565e-08
762 Epoch 362/5000
763 - 0s - loss: 1.0577e-07
764 Epoch 363/5000
765 - 0s - loss: 1.8098e-07
766 Epoch 364/5000
```

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767 - 0s - loss: 5.7510e-07
768 Epoch 365/5000
769 - 0s - loss: 7.7327e-08
770 Epoch 366/5000
771 - 0s - loss: 1.2578e-07
772 Epoch 367/5000
773 - 0s - loss: 9.2179e-08
774 Epoch 368/5000
775 - 0s - loss: 2.9642e-07
776 Epoch 369/5000
777 - 0s - loss: 4.4688e-07
778 Epoch 370/5000
779 - 0s - loss: 6.6276e-08
780 Epoch 371/5000
781 - 0s - loss: 1.0278e-07
782 Epoch 372/5000
783 - 0s - loss: 1.3235e-07
784 Epoch 373/5000
785 - 0s - loss: 6.8873e-07
786 Epoch 374/5000
787 - 0s - loss: 1.2758e-08
788 Epoch 375/5000
789 - 0s - loss: 8.9641e-08
790 Epoch 376/5000
791 - 0s - loss: 3.4088e-07
792 Epoch 377/5000
793 - 0s - loss: 7.0118e-08
794 Epoch 378/5000
795 - 0s - loss: 4.0057e-07
796 Epoch 379/5000
797 - 0s - loss: 3.2372e-07
798 Epoch 380/5000
799 - 0s - loss: 5.2287e-08
800 Epoch 381/5000
801 - 0s - loss: 1.4975e-07
802 Epoch 382/5000
```

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803 - 0s - loss: 4.1017e-07
804 Epoch 383/5000
805 - 0s - loss: 6.8471e-08
806 Epoch 384/5000
807 - 0s - loss: 2.2285e-07
808 Epoch 385/5000
809 - 0s - loss: 2.5860e-07
810 Epoch 386/5000
811 - 0s - loss: 1.3014e-07
812 Epoch 387/5000
813 - 0s - loss: 3.9661e-07
814 Epoch 388/5000
815 - 0s - loss: 1.9883e-07
816 Epoch 389/5000
817 - 0s - loss: 7.8913e-08
818 Epoch 390/5000
819 - 0s - loss: 4.7485e-07
820 Epoch 391/5000
821 - 0s - loss: 7.3253e-08
822 Epoch 392/5000
823 - 0s - loss: 1.0510e-07
824 Epoch 393/5000
825 - 0s - loss: 1.8786e-07
826 Epoch 394/5000
827 - 0s - loss: 1.3685e-07
828 Epoch 395/5000
829 - 0s - loss: 3.2206e-07
830 Epoch 396/5000
831 - 0s - loss: 1.9206e-07
832 Epoch 397/5000
833 - 0s - loss: 3.3659e-07
834 Epoch 398/5000
835 - 0s - loss: 2.1615e-07
836 Epoch 399/5000
837 - 0s - loss: 1.1334e-07
838 Epoch 400/5000
```

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839 - 0s - loss: 1.0742e-07
840 Epoch 401/5000
841 - 0s - loss: 1.9500e-07
842 Epoch 402/5000
843 - 0s - loss: 2.1256e-07
844 Epoch 403/5000
845 - 0s - loss: 1.7755e-07
846 Epoch 404/5000
847 - 0s - loss: 1.6674e-07
848 Epoch 405/5000
849 - 0s - loss: 1.7953e-07
850 Epoch 406/5000
851 - 0s - loss: 2.1253e-07
852 Epoch 407/5000
853 - 0s - loss: 2.1813e-07
854 Epoch 408/5000
855 - 0s - loss: 1.4233e-07
856 Epoch 409/5000
857 - 0s - loss: 2.3779e-07
858 Epoch 410/5000
859 - 0s - loss: 3.3920e-07
860 Epoch 411/5000
861 - 0s - loss: 6.9229e-08
862 Epoch 412/5000
863 - 0s - loss: 2.5330e-07
864 Epoch 413/5000
865 - 0s - loss: 1.5600e-07
866 Epoch 414/5000
867 - 0s - loss: 1.3529e-07
868 Epoch 415/5000
869 - 0s - loss: 2.3691e-07
870 Epoch 416/5000
871 - 0s - loss: 3.0959e-07
872 Epoch 417/5000
873 - 0s - loss: 1.3701e-07
874 Epoch 418/5000
```

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875 - 0s - loss: 1.8243e-07
876 Epoch 419/5000
877 - 0s - loss: 6.4932e-08
878 Epoch 420/5000
879 - 0s - loss: 3.2442e-07
880 Epoch 421/5000
881 - 0s - loss: 2.1805e-07
882 Epoch 422/5000
883 - 0s - loss: 2.2661e-07
884 Epoch 423/5000
885 - 0s - loss: 8.2349e-08
886 Epoch 424/5000
887 - 0s - loss: 1.3857e-07
888 Epoch 425/5000
889 - 0s - loss: 1.6459e-07
890 Epoch 426/5000
891 - 0s - loss: 2.5929e-07
892 Epoch 427/5000
893 - 0s - loss: 1.7338e-07
894 Epoch 428/5000
895 - 0s - loss: 3.3883e-07
896 Epoch 429/5000
897 - 0s - loss: 5.2958e-08
898 Epoch 430/5000
899 - 0s - loss: 1.1056e-07
900 Epoch 431/5000
901 - 0s - loss: 4.9570e-07
902 Epoch 432/5000
903 - 0s - loss: 5.9641e-08
904 Epoch 433/5000
905 - 0s - loss: 1.0978e-07
906 Epoch 434/5000
907 - 0s - loss: 3.0088e-07
908 Epoch 435/5000
909 - 0s - loss: 1.2558e-07
910 Epoch 436/5000
```

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911 - 0s - loss: 3.0945e-07
912 Epoch 437/5000
913 - 0s - loss: 1.2091e-07
914 Epoch 438/5000
915 - 0s - loss: 1.0905e-07
916 Epoch 439/5000
917 - 0s - loss: 1.8085e-07
918 Epoch 440/5000
919 - 0s - loss: 2.8309e-07
920 Epoch 441/5000
921 - 0s - loss: 2.4405e-07
922 Epoch 442/5000
923 - 0s - loss: 6.5420e-08
924 Epoch 443/5000
925 - 0s - loss: 1.7796e-07
926 Epoch 444/5000
927 - 0s - loss: 2.3153e-07
928 Epoch 445/5000
929 - 0s - loss: 5.9357e-08
930 Epoch 446/5000
931 - 0s - loss: 3.3956e-07
932 Epoch 447/5000
933 - 0s - loss: 2.2356e-07
934 Epoch 448/5000
935 - 0s - loss: 1.3387e-07
936 Epoch 449/5000
937 - 0s - loss: 1.2743e-07
938 Epoch 450/5000
939 - 0s - loss: 2.5819e-07
940 Epoch 451/5000
941 - 0s - loss: 6.8038e-08
942 Epoch 452/5000
943 - 0s - loss: 3.4813e-07
944 Epoch 453/5000
945 - 0s - loss: 1.4055e-07
946 Epoch 454/5000
```

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947 - 0s - loss: 1.3106e-07
948 Epoch 455/5000
949 - 0s - loss: 7.0482e-08
950 Epoch 456/5000
951 - 0s - loss: 5.9152e-07
952 Epoch 457/5000
953 - 0s - loss: 7.1033e-08
954 Epoch 458/5000
955 - 0s - loss: 1.7612e-07
956 Epoch 459/5000
957 - 0s - loss: 6.6386e-08
958 Epoch 460/5000
959 - 0s - loss: 3.9054e-07
960 Epoch 461/5000
961 - 0s - loss: 2.7775e-07
962 Epoch 462/5000
963 - 0s - loss: 1.4227e-08
964 Epoch 463/5000
965 - 0s - loss: 9.7031e-08
966 Epoch 464/5000
967 - 0s - loss: 2.7387e-07
968 Epoch 465/5000
969 - 0s - loss: 9.9628e-08
970 Epoch 466/5000
971 - 0s - loss: 1.4390e-07
972 Epoch 467/5000
973 - 0s - loss: 2.8103e-07
974 Epoch 468/5000
975 - 0s - loss: 8.6480e-08
976 Epoch 469/5000
977 - 0s - loss: 2.5540e-07
978 Epoch 470/5000
979 - 0s - loss: 2.3598e-07
980 Epoch 471/5000
981 - 0s - loss: 5.7316e-08
982 Epoch 472/5000
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983 - 0s - loss: 2.6742e-07
984 Epoch 473/5000
985 - 0s - loss: 1.6808e-07
986 Epoch 474/5000
987 - 0s - loss: 1.6118e-07
988 Epoch 475/5000
989 - 0s - loss: 6.9558e-08
990 Epoch 476/5000
991 - 0s - loss: 2.9434e-07
992 Epoch 477/5000
993 - 0s - loss: 1.0994e-07
994 Epoch 478/5000
995 - 0s - loss: 1.0149e-07
996 Epoch 479/5000
997 - 0s - loss: 2.3627e-07
998 Epoch 480/5000
999 - 0s - loss: 2.2360e-07
1000 Epoch 481/5000
1001 - 0s - loss: 2.9889e-07
1002 Epoch 482/5000
1003 - 0s - loss: 1.5300e-08
1004 Epoch 483/5000
1005 - 0s - loss: 2.2348e-07
1006 Epoch 484/5000
1007 - 0s - loss: 1.2584e-07
1008 Epoch 485/5000
1009 - 0s - loss: 1.3218e-07
1010 Epoch 486/5000
1011 - 0s - loss: 1.5642e-07
1012 Epoch 487/5000
1013 - 0s - loss: 1.7102e-07
1014 Epoch 488/5000
1015 - 0s - loss: 2.4836e-07
1016 Epoch 489/5000
1017 - 0s - loss: 3.5074e-07
1018 Epoch 490/5000
```

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1019 - 0s - loss: 4.6218e-08
1020 Epoch 491/5000
1021 - 0s - loss: 8.7667e-08
1022 Epoch 492/5000
1023 - 0s - loss: 2.6039e-07
1024 Epoch 493/5000
1025 - 0s - loss: 6.1356e-08
1026 Epoch 494/5000
1027 - 0s - loss: 2.9745e-07
1028 Epoch 495/5000
1029 - 0s - loss: 6.1428e-08
1030 Epoch 496/5000
1031 - 0s - loss: 2.5974e-07
1032 Epoch 497/5000
1033 - 0s - loss: 8.6631e-08
1034 Epoch 498/5000
1035 - 0s - loss: 1.5499e-07
1036 Epoch 499/5000
1037 - 0s - loss: 1.6688e-07
1038 Epoch 500/5000
1039 - 0s - loss: 1.7377e-07
1040 Epoch 501/5000
1041 - 0s - loss: 2.1909e-07
1042 Epoch 502/5000
1043 - 0s - loss: 1.2784e-07
1044 Epoch 503/5000
1045 - 0s - loss: 1.2859e-07
1046 Epoch 504/5000
1047 - 0s - loss: 3.1859e-07
1048 Epoch 505/5000
1049 - 0s - loss: 8.0632e-08
1050 Epoch 506/5000
1051 - 0s - loss: 1.0038e-07
1052 Epoch 507/5000
1053 - 0s - loss: 2.7191e-07
1054 Epoch 508/5000
```

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1055 - 0s - loss: 3.3222e-07
1056 Epoch 509/5000
1057 - 0s - loss: 2.5436e-08
1058 Epoch 510/5000
1059 - 0s - loss: 2.1574e-07
1060 Epoch 511/5000
1061 - 0s - loss: 2.4899e-07
1062 Epoch 512/5000
1063 - 0s - loss: 5.4862e-08
1064 Epoch 513/5000
1065 - 0s - loss: 3.0491e-07
1066 Epoch 514/5000
1067 - 0s - loss: 3.1439e-08
1068 Epoch 515/5000
1069 - 0s - loss: 1.2446e-07
1070 Epoch 516/5000
1071 - 0s - loss: 3.0217e-07
1072 Epoch 517/5000
1073 - 0s - loss: 5.5851e-08
1074 Epoch 518/5000
1075 - 0s - loss: 2.1432e-07
1076 Epoch 519/5000
1077 - 0s - loss: 6.5685e-08
1078 Epoch 520/5000
1079 - 0s - loss: 1.1784e-07
1080 Epoch 521/5000
1081 - 0s - loss: 3.6509e-07
1082 Epoch 522/5000
1083 - 0s - loss: 1.6504e-07
1084 Epoch 523/5000
1085 - 0s - loss: 1.4829e-07
1086 Epoch 524/5000
1087 - 0s - loss: 2.1457e-07
1088 Epoch 525/5000
1089 - 0s - loss: 1.0297e-07
1090 Epoch 526/5000
```

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1091 - 0s - loss: 1.0269e-07
1092 Epoch 527/5000
1093 - 0s - loss: 1.0103e-07
1094 Epoch 528/5000
1095 - 0s - loss: 2.3681e-07
1096 Epoch 529/5000
1097 - 0s - loss: 2.5390e-07
1098 Epoch 530/5000
1099 - 0s - loss: 3.6633e-08
1100 Epoch 531/5000
1101 - 0s - loss: 3.1453e-07
1102 Epoch 532/5000
1103 - 0s - loss: 1.3407e-07
1104 Epoch 533/5000
1105 - 0s - loss: 8.6503e-08
1106 Epoch 534/5000
1107 - 0s - loss: 1.2891e-07
1108 Epoch 535/5000
1109 - 0s - loss: 2.0751e-07
1110 Epoch 536/5000
1111 - 0s - loss: 2.0083e-07
1112 Epoch 537/5000
1113 - 0s - loss: 2.3838e-07
1114 Epoch 538/5000
1115 - 0s - loss: 5.1777e-08
1116 Epoch 539/5000
1117 - 0s - loss: 1.4940e-07
1118 Epoch 540/5000
1119 - 0s - loss: 1.5156e-07
1120 Epoch 541/5000
1121 - 0s - loss: 1.2889e-07
1122 Epoch 542/5000
1123 - 0s - loss: 4.1855e-07
1124 Epoch 543/5000
1125 - 0s - loss: 1.8408e-07
1126 Epoch 544/5000
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1127 - 0s - loss: 8.1054e-08
1128 Epoch 545/5000
1129 - 0s - loss: 7.6424e-08
1130 Epoch 546/5000
1131 - 0s - loss: 7.3171e-08
1132 Epoch 547/5000
1133 - 0s - loss: 2.0223e-07
1134 Epoch 548/5000
1135 - 0s - loss: 1.5094e-07
1136 Epoch 549/5000
1137 - 0s - loss: 1.2896e-07
1138 Epoch 550/5000
1139 - 0s - loss: 2.2969e-07
1140 Epoch 551/5000
1141 - 0s - loss: 1.2269e-07
1142 Epoch 552/5000
1143 - 0s - loss: 9.1799e-08
1144 Epoch 553/5000
1145 - 0s - loss: 1.1022e-07
1146 Epoch 554/5000
1147 - 0s - loss: 1.8844e-07
1148 Epoch 555/5000
1149 - 0s - loss: 1.7970e-07
1150 Epoch 556/5000
1151 - 0s - loss: 2.0714e-07
1152 Epoch 557/5000
1153 - 0s - loss: 6.8033e-08
1154 Epoch 558/5000
1155 - 0s - loss: 1.6879e-07
1156 Epoch 559/5000
1157 - 0s - loss: 1.3856e-07
1158 Epoch 560/5000
1159 - 0s - loss: 9.4044e-08
1160 Epoch 561/5000
1161 - 0s - loss: 3.2557e-07
1162 Epoch 562/5000
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1163 - 0s - loss: 4.7525e-08
1164 Epoch 563/5000
1165 - 0s - loss: 2.3613e-07
1166 Epoch 564/5000
1167 - 0s - loss: 8.3892e-08
1168 Epoch 565/5000
1169 - 0s - loss: 6.2269e-08
1170 Epoch 566/5000
1171 - 0s - loss: 1.6522e-07
1172 Epoch 567/5000
1173 - 0s - loss: 1.3068e-07
1174 Epoch 568/5000
1175 - 0s - loss: 1.9198e-07
1176 Epoch 569/5000
1177 - 0s - loss: 1.1147e-07
1178 Epoch 570/5000
1179 - 0s - loss: 3.4456e-07
1180 Epoch 571/5000
1181 - 0s - loss: 2.2112e-08
1182 Epoch 572/5000
1183 - 0s - loss: 1.8301e-07
1184 Epoch 573/5000
1185 - 0s - loss: 7.7087e-08
1186 Epoch 574/5000
1187 - 0s - loss: 1.7970e-07
1188 Epoch 575/5000
1189 - 0s - loss: 2.1483e-07
1190 Epoch 576/5000
1191 - 0s - loss: 1.8870e-07
1192 Epoch 577/5000
1193 - 0s - loss: 2.6547e-07
1194 Epoch 578/5000
1195 - 0s - loss: 4.0656e-08
1196 Epoch 579/5000
1197 - 0s - loss: 5.6304e-08
1198 Epoch 580/5000
```

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1199 - 0s - loss: 3.2589e-07
1200 Epoch 581/5000
1201 - 0s - loss: 1.4433e-07
1202 Epoch 582/5000
1203 - 0s - loss: 4.5960e-08
1204 Epoch 583/5000
1205 - 0s - loss: 6.9340e-08
1206 Epoch 584/5000
1207 - 0s - loss: 1.8297e-07
1208 Epoch 585/5000
1209 - 0s - loss: 1.5028e-07
1210 Epoch 586/5000
1211 - 0s - loss: 1.3155e-07
1212 Epoch 587/5000
1213 - 0s - loss: 3.2312e-07
1214 Epoch 588/5000
1215 - 0s - loss: 9.1948e-08
1216 Epoch 589/5000
1217 - 0s - loss: 8.4970e-08
1218 Epoch 590/5000
1219 - 0s - loss: 1.3511e-07
1220 Epoch 591/5000
1221 - 0s - loss: 1.0438e-07
1222 Epoch 592/5000
1223 - 0s - loss: 4.4596e-07
1224 Epoch 593/5000
1225 - 0s - loss: 3.2827e-08
1226 Epoch 594/5000
1227 - 0s - loss: 1.1822e-07
1228 Epoch 595/5000
1229 - 0s - loss: 1.1990e-07
1230 Epoch 596/5000
1231 - 0s - loss: 1.3396e-07
1232 Epoch 597/5000
1233 - 0s - loss: 3.1368e-07
1234 Epoch 598/5000
```

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1235 - 0s - loss: 1.6124e-07
1236 Epoch 599/5000
1237 - 0s - loss: 2.3642e-08
1238 Epoch 600/5000
1239 - 0s - loss: 1.1198e-07
1240 Epoch 601/5000
1241 - 0s - loss: 2.2530e-07
1242 Epoch 602/5000
1243 - 0s - loss: 1.1450e-07
1244 Epoch 603/5000
1245 - 0s - loss: 2.9890e-07
1246 Epoch 604/5000
1247 - 0s - loss: 2.4228e-08
1248 Epoch 605/5000
1249 - 0s - loss: 1.8629e-07
1250 Epoch 606/5000
1251 - 0s - loss: 2.2370e-07
1252 Epoch 607/5000
1253 - 0s - loss: 4.9698e-08
1254 Epoch 608/5000
1255 - 0s - loss: 9.5493e-08
1256 Epoch 609/5000
1257 - 0s - loss: 2.7387e-07
1258 Epoch 610/5000
1259 - 0s - loss: 1.0964e-07
1260 Epoch 611/5000
1261 - 0s - loss: 6.3240e-08
1262 Epoch 612/5000
1263 - 0s - loss: 1.1206e-07
1264 Epoch 613/5000
1265 - 0s - loss: 3.2697e-07
1266 Epoch 614/5000
1267 - 0s - loss: 9.0231e-08
1268 Epoch 615/5000
1269 - 0s - loss: 1.8256e-07
1270 Epoch 616/5000
```

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1271 - 0s - loss: 1.7260e-07
1272 Epoch 617/5000
1273 - 0s - loss: 3.3316e-08
1274 Epoch 618/5000
1275 - 0s - loss: 1.5978e-07
1276 Epoch 619/5000
1277 - 0s - loss: 1.2116e-07
1278 Epoch 620/5000
1279 - 0s - loss: 1.4022e-07
1280 Epoch 621/5000
1281 - 0s - loss: 1.5858e-07
1282 Epoch 622/5000
1283 - 0s - loss: 2.4545e-07
1284 Epoch 623/5000
1285 - 0s - loss: 2.0037e-07
1286 Epoch 624/5000
1287 - 0s - loss: 4.7461e-08
1288 Epoch 625/5000
1289 - 0s - loss: 4.4532e-08
1290 Epoch 626/5000
1291 - 0s - loss: 2.0276e-07
1292 Epoch 627/5000
1293 - 0s - loss: 1.4908e-07
1294 Epoch 628/5000
1295 - 0s - loss: 1.9627e-07
1296 Epoch 629/5000
1297 - 0s - loss: 6.7429e-08
1298 Epoch 630/5000
1299 - 0s - loss: 1.0716e-07
1300 Epoch 631/5000
1301 - 0s - loss: 2.4165e-07
1302 Epoch 632/5000
1303 - 0s - loss: 9.1289e-08
1304 Epoch 633/5000
1305 - 0s - loss: 1.1924e-07
1306 Epoch 634/5000
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1307 - 0s - loss: 7.6711e-08
1308 Epoch 635/5000
1309 - 0s - loss: 1.8771e-07
1310 Epoch 636/5000
1311 - 0s - loss: 1.2175e-07
1312 Epoch 637/5000
1313 - 0s - loss: 1.0835e-07
1314 Epoch 638/5000
1315 - 0s - loss: 1.8575e-07
1316 Epoch 639/5000
1317 - 0s - loss: 1.3568e-07
1318 Epoch 640/5000
1319 - 0s - loss: 1.6721e-07
1320 Epoch 641/5000
1321 - 0s - loss: 7.7931e-08
1322 Epoch 642/5000
1323 - 0s - loss: 2.4759e-07
1324 Epoch 643/5000
1325 - 0s - loss: 5.2766e-07
1326 Epoch 644/5000
1327 - 0s - loss: 3.6654e-08
1328 Epoch 645/5000
1329 - 0s - loss: 2.0344e-08
1330 Epoch 646/5000
1331 - 0s - loss: 2.2165e-08
1332 Epoch 647/5000
1333 - 0s - loss: 7.6230e-08
1334 Epoch 648/5000
1335 - 0s - loss: 1.8033e-07
1336 Epoch 649/5000
1337 - 0s - loss: 1.5763e-07
1338 Epoch 650/5000
1339 - 0s - loss: 7.8206e-08
1340 Epoch 651/5000
1341 - 0s - loss: 3.2938e-07
1342 Epoch 652/5000
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1343 - 0s - loss: 1.7371e-08
1344 Epoch 653/5000
1345 - 0s - loss: 1.2496e-07
1346 Epoch 654/5000
1347 - 0s - loss: 1.3471e-07
1348 Epoch 655/5000
1349 - 0s - loss: 8.0077e-08
1350 Epoch 656/5000
1351 - 0s - loss: 2.4542e-07
1352 Epoch 657/5000
1353 - 0s - loss: 4.3901e-07
1354 Epoch 658/5000
1355 - 0s - loss: 4.5832e-08
1356 Epoch 659/5000
1357 - 0s - loss: 1.1651e-08
1358 Epoch 660/5000
1359 - 0s - loss: 2.3252e-07
1360 Epoch 661/5000
1361 - 0s - loss: 8.4787e-08
1362 Epoch 662/5000
1363 - 0s - loss: 1.2509e-07
1364 Epoch 663/5000
1365 - 0s - loss: 1.4347e-07
1366 Epoch 664/5000
1367 - 0s - loss: 3.9408e-08
1368 Epoch 665/5000
1369 - 0s - loss: 2.8332e-07
1370 Epoch 666/5000
1371 - 0s - loss: 1.7193e-08
1372 Epoch 667/5000
1373 - 0s - loss: 7.1886e-08
1374 Epoch 668/5000
1375 - 0s - loss: 1.7376e-07
1376 Epoch 669/5000
1377 - 0s - loss: 3.4239e-07
1378 Epoch 670/5000
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1379 - 0s - loss: 5.5159e-08
1380 Epoch 671/5000
1381 - 0s - loss: 5.6144e-08
1382 Epoch 672/5000
1383 - 0s - loss: 1.6595e-07
1384 Epoch 673/5000
1385 - 0s - loss: 4.5736e-08
1386 Epoch 674/5000
1387 - 0s - loss: 3.2407e-07
1388 Epoch 675/5000
1389 - 0s - loss: 4.8662e-08
1390 Epoch 676/5000
1391 - 0s - loss: 4.6790e-08
1392 Epoch 677/5000
1393 - 0s - loss: 1.5154e-07
1394 Epoch 678/5000
1395 - 0s - loss: 9.0373e-08
1396 Epoch 679/5000
1397 - 0s - loss: 1.6616e-07
1398 Epoch 680/5000
1399 - 0s - loss: 8.4722e-08
1400 Epoch 681/5000
1401 - 0s - loss: 1.0701e-07
1402 Epoch 682/5000
1403 - 0s - loss: 1.7214e-07
1404 Epoch 683/5000
1405 - 0s - loss: 2.7736e-07
1406 Epoch 684/5000
1407 - 0s - loss: 9.3064e-08
1408 Epoch 685/5000
1409 - 0s - loss: 2.4651e-08
1410 Epoch 686/5000
1411 - 0s - loss: 1.4589e-07
1412 Epoch 687/5000
1413 - 0s - loss: 1.6185e-07
1414 Epoch 688/5000
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1415 - 0s - loss: 6.3529e-08
1416 Epoch 689/5000
1417 - 0s - loss: 2.1175e-07
1418 Epoch 690/5000
1419 - 0s - loss: 2.9231e-08
1420 Epoch 691/5000
1421 - 0s - loss: 1.2949e-07
1422 Epoch 692/5000
1423 - 0s - loss: 1.3238e-07
1424 Epoch 693/5000
1425 - 0s - loss: 1.9385e-07
1426 Epoch 694/5000
1427 - 0s - loss: 5.3844e-08
1428 Epoch 695/5000
1429 - 0s - loss: 2.7798e-07
1430 Epoch 696/5000
1431 - 0s - loss: 7.0352e-08
1432 Epoch 697/5000
1433 - 0s - loss: 2.5323e-08
1434 Epoch 698/5000
1435 - 0s - loss: 2.0428e-07
1436 Epoch 699/5000
1437 - 0s - loss: 1.1123e-07
1438 Epoch 700/5000
1439 - 0s - loss: 1.0225e-07
1440 Epoch 701/5000
1441 - 0s - loss: 3.0905e-07
1442 Epoch 702/5000
1443 - 0s - loss: 1.9504e-08
1444 Epoch 703/5000
1445 - 0s - loss: 4.6556e-08
1446 Epoch 704/5000
1447 - 0s - loss: 1.9502e-07
1448 Epoch 705/5000
1449 - 0s - loss: 6.3780e-08
1450 Epoch 706/5000
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1451 - 0s - loss: 1.3299e-07
1452 Epoch 707/5000
1453 - 0s - loss: 8.7195e-08
1454 Epoch 708/5000
1455 - 0s - loss: 1.5783e-07
1456 Epoch 709/5000
1457 - 0s - loss: 2.7353e-07
1458 Epoch 710/5000
1459 - 0s - loss: 3.2553e-08
1460 Epoch 711/5000
1461 - 0s - loss: 4.0213e-08
1462 Epoch 712/5000
1463 - 0s - loss: 1.8268e-07
1464 Epoch 713/5000
1465 - 0s - loss: 2.9356e-07
1466 Epoch 714/5000
1467 - 0s - loss: 5.1411e-08
1468 Epoch 715/5000
1469 - 0s - loss: 3.5512e-08
1470 Epoch 716/5000
1471 - 0s - loss: 1.3217e-07
1472 Epoch 717/5000
1473 - 0s - loss: 1.8102e-07
1474 Epoch 718/5000
1475 - 0s - loss: 1.5100e-07
1476 Epoch 719/5000
1477 - 0s - loss: 9.4150e-08
1478 Epoch 720/5000
1479 - 0s - loss: 1.0279e-07
1480 Epoch 721/5000
1481 - 0s - loss: 6.5122e-08
1482 Epoch 722/5000
1483 - 0s - loss: 1.7053e-07
1484 Epoch 723/5000
1485 - 0s - loss: 1.3664e-07
1486 Epoch 724/5000
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1487 - 0s - loss: 1.1697e-07
1488 Epoch 725/5000
1489 - 0s - loss: 5.8618e-08
1490 Epoch 726/5000
1491 - 0s - loss: 1.0916e-07
1492 Epoch 727/5000
1493 - 0s - loss: 1.6734e-07
1494 Epoch 728/5000
1495 - 0s - loss: 1.0830e-07
1496 Epoch 729/5000
1497 - 0s - loss: 8.7598e-08
1498 Epoch 730/5000
1499 - 0s - loss: 3.1454e-07
1500 Epoch 731/5000
1501 - 0s - loss: 2.0714e-08
1502 Epoch 732/5000
1503 - 0s - loss: 1.2138e-07
1504 Epoch 733/5000
1505 - 0s - loss: 1.9622e-07
1506 Epoch 734/5000
1507 - 0s - loss: 3.2653e-08
1508 Epoch 735/5000
1509 - 0s - loss: 6.6318e-08
1510 Epoch 736/5000
1511 - 0s - loss: 8.4960e-08
1512 Epoch 737/5000
1513 - 0s - loss: 1.7996e-07
1514 Epoch 738/5000
1515 - 0s - loss: 8.8307e-08
1516 Epoch 739/5000
1517 - 0s - loss: 9.0544e-08
1518 Epoch 740/5000
1519 - 0s - loss: 2.1587e-07
1520 Epoch 741/5000
1521 - 0s - loss: 3.5265e-08
1522 Epoch 742/5000
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1523 - 0s - loss: 1.1261e-07
1524 Epoch 743/5000
1525 - 0s - loss: 1.4740e-07
1526 Epoch 744/5000
1527 - 0s - loss: 1.0206e-07
1528 Epoch 745/5000
1529 - 0s - loss: 1.2062e-07
1530 Epoch 746/5000
1531 - 0s - loss: 1.3386e-07
1532 Epoch 747/5000
1533 - 0s - loss: 1.0923e-07
1534 Epoch 748/5000
1535 - 0s - loss: 1.4338e-07
1536 Epoch 749/5000
1537 - 0s - loss: 4.1982e-08
1538 Epoch 750/5000
1539 - 0s - loss: 2.1367e-07
1540 Epoch 751/5000
1541 - 0s - loss: 7.4685e-08
1542 Epoch 752/5000
1543 - 0s - loss: 4.1020e-08
1544 Epoch 753/5000
1545 - 0s - loss: 9.6196e-08
1546 Epoch 754/5000
1547 - 0s - loss: 1.1764e-07
1548 Epoch 755/5000
1549 - 0s - loss: 7.6753e-07
1550 Epoch 756/5000
1551 - 0s - loss: 3.7200e-08
1552 Epoch 757/5000
1553 - 0s - loss: 1.9744e-08
1554 Epoch 758/5000
1555 - 0s - loss: 3.9661e-08
1556 Epoch 759/5000
1557 - 0s - loss: 8.0934e-08
1558 Epoch 760/5000
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1559 - 0s - loss: 6.8070e-08
1560 Epoch 761/5000
1561 - 0s - loss: 5.5651e-08
1562 Epoch 762/5000
1563 - 0s - loss: 2.5079e-07
1564 Epoch 763/5000
1565 - 0s - loss: 1.7986e-08
1566 Epoch 764/5000
1567 - 0s - loss: 1.1157e-07
1568 Epoch 765/5000
1569 - 0s - loss: 1.5379e-07
1570 Epoch 766/5000
1571 - 0s - loss: 9.2106e-08
1572 Epoch 767/5000
1573 - 0s - loss: 2.1560e-07
1574 Epoch 768/5000
1575 - 0s - loss: 9.0829e-08
1576 Epoch 769/5000
1577 - 0s - loss: 1.1568e-07
1578 Epoch 770/5000
1579 - 0s - loss: 7.0123e-08
1580 Epoch 771/5000
1581 - 0s - loss: 2.3054e-07
1582 Epoch 772/5000
1583 - 0s - loss: 4.3044e-08
1584 Epoch 773/5000
1585 - 0s - loss: 5.1607e-08
1586 Epoch 774/5000
1587 - 0s - loss: 1.8817e-07
1588 Epoch 775/5000
1589 - 0s - loss: 1.8902e-08
1590 Epoch 776/5000
1591 - 0s - loss: 1.3533e-07
1592 Epoch 777/5000
1593 - 0s - loss: 5.7454e-08
1594 Epoch 778/5000
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1595 - 0s - loss: 3.1379e-07
1596 Epoch 779/5000
1597 - 0s - loss: 3.7536e-08
1598 Epoch 780/5000
1599 - 0s - loss: 3.5269e-08
1600 Epoch 781/5000
1601 - 0s - loss: 1.0968e-07
1602 Epoch 782/5000
1603 - 0s - loss: 1.0440e-07
1604 Epoch 783/5000
1605 - 0s - loss: 1.0623e-07
1606 Epoch 784/5000
1607 - 0s - loss: 1.6102e-07
1608 Epoch 785/5000
1609 - 0s - loss: 1.1474e-07
1610 Epoch 786/5000
1611 - 0s - loss: 2.8475e-08
1612 Epoch 787/5000
1613 - 0s - loss: 1.1226e-07
1614 Epoch 788/5000
1615 - 0s - loss: 1.6507e-07
1616 Epoch 789/5000
1617 - 0s - loss: 9.8249e-08
1618 Epoch 790/5000
1619 - 0s - loss: 6.3680e-08
1620 Epoch 791/5000
1621 - 0s - loss: 1.6158e-07
1622 Epoch 792/5000
1623 - 0s - loss: 1.4523e-07
1624 Epoch 793/5000
1625 - 0s - loss: 1.0909e-07
1626 Epoch 794/5000
1627 - 0s - loss: 8.2327e-08
1628 Epoch 795/5000
1629 - 0s - loss: 1.9566e-07
1630 Epoch 796/5000
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1631 - 0s - loss: 9.0731e-08
1632 Epoch 797/5000
1633 - 0s - loss: 5.4384e-08
1634 Epoch 798/5000
1635 - 0s - loss: 1.4748e-07
1636 Epoch 799/5000
1637 - 0s - loss: 1.2590e-07
1638 Epoch 800/5000
1639 - 0s - loss: 3.5761e-08
1640 Epoch 801/5000
1641 - 0s - loss: 1.7050e-07
1642 Epoch 802/5000
1643 - 0s - loss: 9.0291e-08
1644 Epoch 803/5000
1645 - 0s - loss: 7.3639e-08
1646 Epoch 804/5000
1647 - 0s - loss: 1.1815e-07
1648 Epoch 805/5000
1649 - 0s - loss: 6.7112e-08
1650 Epoch 806/5000
1651 - 0s - loss: 1.7855e-07
1652 Epoch 807/5000
1653 - 0s - loss: 1.3494e-07
1654 Epoch 808/5000
1655 - 0s - loss: 2.9079e-08
1656 Epoch 809/5000
1657 - 0s - loss: 7.6522e-08
1658 Epoch 810/5000
1659 - 0s - loss: 1.7625e-07
1660 Epoch 811/5000
1661 - 0s - loss: 4.7071e-08
1662 Epoch 812/5000
1663 - 0s - loss: 1.7592e-07
1664 Epoch 813/5000
1665 - 0s - loss: 3.4290e-08
1666 Epoch 814/5000
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1667 - 0s - loss: 9.3821e-08
1668 Epoch 815/5000
1669 - 0s - loss: 1.2594e-07
1670 Epoch 816/5000
1671 - 0s - loss: 6.5387e-08
1672 Epoch 817/5000
1673 - 0s - loss: 1.4356e-07
1674 Epoch 818/5000
1675 - 0s - loss: 1.1351e-07
1676 Epoch 819/5000
1677 - 0s - loss: 6.7717e-08
1678 Epoch 820/5000
1679 - 0s - loss: 7.4829e-08
1680 Epoch 821/5000
1681 - 0s - loss: 1.3813e-07
1682 Epoch 822/5000
1683 - 0s - loss: 7.0917e-08
1684 Epoch 823/5000
1685 - 0s - loss: 1.5182e-07
1686 Epoch 824/5000
1687 - 0s - loss: 3.3393e-08
1688 Epoch 825/5000
1689 - 0s - loss: 2.1319e-07
1690 Epoch 826/5000
1691 - 0s - loss: 3.6417e-08
1692 Epoch 827/5000
1693 - 0s - loss: 5.7970e-08
1694 Epoch 828/5000
1695 - 0s - loss: 1.2547e-07
1696 Epoch 829/5000
1697 - 0s - loss: 2.0934e-07
1698 Epoch 830/5000
1699 - 0s - loss: 4.7626e-08
1700 Epoch 831/5000
1701 - 0s - loss: 7.4004e-08
1702 Epoch 832/5000
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1703 - 0s - loss: 1.3992e-07
1704 Epoch 833/5000
1705 - 0s - loss: 6.4824e-08
1706 Epoch 834/5000
1707 - 0s - loss: 6.0014e-08
1708 Epoch 835/5000
1709 - 0s - loss: 2.6479e-07
1710 Epoch 836/5000
1711 - 0s - loss: 4.4527e-08
1712 Epoch 837/5000
1713 - 0s - loss: 7.5058e-08
1714 Epoch 838/5000
1715 - 0s - loss: 4.3594e-08
1716 Epoch 839/5000
1717 - 0s - loss: 2.0822e-07
1718 Epoch 840/5000
1719 - 0s - loss: 4.6095e-08
1720 Epoch 841/5000
1721 - 0s - loss: 4.0063e-08
1722 Epoch 842/5000
1723 - 0s - loss: 1.1672e-07
1724 Epoch 843/5000
1725 - 0s - loss: 8.6477e-08
1726 Epoch 844/5000
1727 - 0s - loss: 1.6480e-07
1728 Epoch 845/5000
1729 - 0s - loss: 4.2858e-08
1730 Epoch 846/5000
1731 - 0s - loss: 2.2651e-07
1732 Epoch 847/5000
1733 - 0s - loss: 6.9382e-08
1734 Epoch 848/5000
1735 - 0s - loss: 3.8904e-08
1736 Epoch 849/5000
1737 - 0s - loss: 7.9690e-08
1738 Epoch 850/5000
```

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1739 - 0s - loss: 8.3322e-08
1740 Epoch 851/5000
1741 - 0s - loss: 1.4514e-07
1742 Epoch 852/5000
1743 - 0s - loss: 6.7424e-08
1744 Epoch 853/5000
1745 - 0s - loss: 1.0664e-07
1746 Epoch 854/5000
1747 - 0s - loss: 1.3475e-07
1748 Epoch 855/5000
1749 - 0s - loss: 6.5790e-08
1750 Epoch 856/5000
1751 - 0s - loss: 1.2396e-07
1752 Epoch 857/5000
1753 - 0s - loss: 4.3687e-08
1754 Epoch 858/5000
1755 - 0s - loss: 2.8437e-07
1756 Epoch 859/5000
1757 - 0s - loss: 6.9865e-08
1758 Epoch 860/5000
1759 - 0s - loss: 1.7136e-08
1760 Epoch 861/5000
1761 - 0s - loss: 5.5689e-08
1762 Epoch 862/5000
1763 - 0s - loss: 1.3032e-07
1764 Epoch 863/5000
1765 - 0s - loss: 4.6714e-08
1766 Epoch 864/5000
1767 - 0s - loss: 1.0241e-07
1768 Epoch 865/5000
1769 - 0s - loss: 6.7202e-08
1770 Epoch 866/5000
1771 - 0s - loss: 1.1619e-07
1772 Epoch 867/5000
1773 - 0s - loss: 1.0489e-07
1774 Epoch 868/5000
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1775 - 0s - loss: 4.5683e-08
1776 Epoch 869/5000
1777 - 0s - loss: 1.4828e-07
1778 Epoch 870/5000
1779 - 0s - loss: 1.0601e-07
1780 Epoch 871/5000
1781 - 0s - loss: 5.3172e-08
1782 Epoch 872/5000
1783 - 0s - loss: 6.6937e-08
1784 Epoch 873/5000
1785 - 0s - loss: 1.4724e-07
1786 Epoch 874/5000
1787 - 0s - loss: 7.1641e-08
1788 Epoch 875/5000
1789 - 0s - loss: 1.1670e-07
1790 Epoch 876/5000
1791 - 0s - loss: 7.5950e-08
1792 Epoch 877/5000
1793 - 0s - loss: 6.8226e-08
1794 Epoch 878/5000
1795 - 0s - loss: 1.8243e-07
1796 Epoch 879/5000
1797 - 0s - loss: 7.4260e-08
1798 Epoch 880/5000
1799 - 0s - loss: 7.1066e-08
1800 Epoch 881/5000
1801 - 0s - loss: 9.2106e-08
1802 Epoch 882/5000
1803 - 0s - loss: 1.5583e-07
1804 Epoch 883/5000
1805 - 0s - loss: 3.0295e-08
1806 Epoch 884/5000
1807 - 0s - loss: 1.0163e-07
1808 Epoch 885/5000
1809 - 0s - loss: 5.9310e-08
1810 Epoch 886/5000
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1811 - 0s - loss: 7.4550e-08
1812 Epoch 887/5000
1813 - 0s - loss: 6.6734e-08
1814 Epoch 888/5000
1815 - 0s - loss: 1.5021e-07
1816 Epoch 889/5000
1817 - 0s - loss: 5.8423e-08
1818 Epoch 890/5000
1819 - 0s - loss: 4.7120e-08
1820 Epoch 891/5000
1821 - 0s - loss: 1.0464e-07
1822 Epoch 892/5000
1823 - 0s - loss: 1.9261e-07
1824 Epoch 893/5000
1825 - 0s - loss: 5.2630e-08
1826 Epoch 894/5000
1827 - 0s - loss: 4.5447e-08
1828 Epoch 895/5000
1829 - 0s - loss: 1.5818e-07
1830 Epoch 896/5000
1831 - 0s - loss: 9.6073e-08
1832 Epoch 897/5000
1833 - 0s - loss: 1.4539e-08
1834 Epoch 898/5000
1835 - 0s - loss: 9.7375e-08
1836 Epoch 899/5000
1837 - 0s - loss: 8.9957e-08
1838 Epoch 900/5000
1839 - 0s - loss: 8.5308e-08
1840 Epoch 901/5000
1841 - 0s - loss: 1.0168e-07
1842 Epoch 902/5000
1843 - 0s - loss: 4.4155e-08
1844 Epoch 903/5000
1845 - 0s - loss: 1.5123e-07
1846 Epoch 904/5000
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1847 - 0s - loss: 8.9663e-08
1848 Epoch 905/5000
1849 - 0s - loss: 1.9866e-08
1850 Epoch 906/5000
1851 - 0s - loss: 1.3457e-07
1852 Epoch 907/5000
1853 - 0s - loss: 6.8330e-08
1854 Epoch 908/5000
1855 - 0s - loss: 5.3310e-08
1856 Epoch 909/5000
1857 - 0s - loss: 1.0577e-07
1858 Epoch 910/5000
1859 - 0s - loss: 4.6139e-08
1860 Epoch 911/5000
1861 - 0s - loss: 1.5162e-07
1862 Epoch 912/5000
1863 - 0s - loss: 5.3237e-08
1864 Epoch 913/5000
1865 - 0s - loss: 1.7875e-07
1866 Epoch 914/5000
1867 - 0s - loss: 6.4841e-08
1868 Epoch 915/5000
1869 - 0s - loss: 1.1110e-07
1870 Epoch 916/5000
1871 - 0s - loss: 2.9492e-08
1872 Epoch 917/5000
1873 - 0s - loss: 1.4080e-07
1874 Epoch 918/5000
1875 - 0s - loss: 1.3513e-08
1876 Epoch 919/5000
1877 - 0s - loss: 1.1132e-07
1878 Epoch 920/5000
1879 - 0s - loss: 5.8745e-08
1880 Epoch 921/5000
1881 - 0s - loss: 9.4574e-08
1882 Epoch 922/5000
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1883 - 0s - loss: 1.1496e-07
1884 Epoch 923/5000
1885 - 0s - loss: 1.3919e-07
1886 Epoch 924/5000
1887 - 0s - loss: 2.5578e-08
1888 Epoch 925/5000
1889 - 0s - loss: 5.8781e-08
1890 Epoch 926/5000
1891 - 0s - loss: 1.5566e-07
1892 Epoch 927/5000
1893 - 0s - loss: 3.0432e-08
1894 Epoch 928/5000
1895 - 0s - loss: 5.0726e-08
1896 Epoch 929/5000
1897 - 0s - loss: 1.3629e-07
1898 Epoch 930/5000
1899 - 0s - loss: 4.5550e-08
1900 Epoch 931/5000
1901 - 0s - loss: 2.3093e-07
1902 Epoch 932/5000
1903 - 0s - loss: 3.4966e-08
1904 Epoch 933/5000
1905 - 0s - loss: 4.2031e-08
1906 Epoch 934/5000
1907 - 0s - loss: 1.1780e-07
1908 Epoch 935/5000
1909 - 0s - loss: 5.0112e-08
1910 Epoch 936/5000
1911 - 0s - loss: 5.8589e-08
1912 Epoch 937/5000
1913 - 0s - loss: 5.6288e-08
1914 Epoch 938/5000
1915 - 0s - loss: 1.3261e-07
1916 Epoch 939/5000
1917 - 0s - loss: 4.4071e-08
1918 Epoch 940/5000
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1919 - 0s - loss: 9.1825e-08
1920 Epoch 941/5000
1921 - 0s - loss: 8.3235e-08
1922 Epoch 942/5000
1923 - 0s - loss: 7.6495e-08
1924 Epoch 943/5000
1925 - 0s - loss: 6.5295e-08
1926 Epoch 944/5000
1927 - 0s - loss: 1.2062e-07
1928 Epoch 945/5000
1929 - 0s - loss: 3.8971e-08
1930 Epoch 946/5000
1931 - 0s - loss: 1.4827e-07
1932 Epoch 947/5000
1933 - 0s - loss: 5.2987e-08
1934 Epoch 948/5000
1935 - 0s - loss: 9.0365e-08
1936 Epoch 949/5000
1937 - 0s - loss: 3.3045e-08
1938 Epoch 950/5000
1939 - 0s - loss: 7.1479e-08
1940 Epoch 951/5000
1941 - 0s - loss: 1.3221e-07
1942 Epoch 952/5000
1943 - 0s - loss: 1.4838e-07
1944 Epoch 953/5000
1945 - 0s - loss: 2.0104e-08
1946 Epoch 954/5000
1947 - 0s - loss: 1.5400e-07
1948 Epoch 955/5000
1949 - 0s - loss: 1.1413e-08
1950 Epoch 956/5000
1951 - 0s - loss: 9.0290e-08
1952 Epoch 957/5000
1953 - 0s - loss: 1.0963e-07
1954 Epoch 958/5000
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1955 - 0s - loss: 8.3539e-08
1956 Epoch 959/5000
1957 - 0s - loss: 3.9008e-08
1958 Epoch 960/5000
1959 - 0s - loss: 1.0396e-07
1960 Epoch 961/5000
1961 - 0s - loss: 5.3212e-08
1962 Epoch 962/5000
1963 - 0s - loss: 1.1846e-07
1964 Epoch 963/5000
1965 - 0s - loss: 3.6449e-08
1966 Epoch 964/5000
1967 - 0s - loss: 8.6149e-08
1968 Epoch 965/5000
1969 - 0s - loss: 7.6458e-08
1970 Epoch 966/5000
1971 - 0s - loss: 7.8718e-08
1972 Epoch 967/5000
1973 - 0s - loss: 7.5210e-08
1974 Epoch 968/5000
1975 - 0s - loss: 8.4654e-08
1976 Epoch 969/5000
1977 - 0s - loss: 3.5500e-08
1978 Epoch 970/5000
1979 - 0s - loss: 1.1160e-07
1980 Epoch 971/5000
1981 - 0s - loss: 4.5214e-08
1982 Epoch 972/5000
1983 - 0s - loss: 1.5202e-07
1984 Epoch 973/5000
1985 - 0s - loss: 8.1016e-08
1986 Epoch 974/5000
1987 - 0s - loss: 2.7088e-08
1988 Epoch 975/5000
1989 - 0s - loss: 9.1598e-08
1990 Epoch 976/5000
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1991 - 0s - loss: 9.1191e-08
1992 Epoch 977/5000
1993 - 0s - loss: 9.1488e-08
1994 Epoch 978/5000
1995 - 0s - loss: 2.1899e-08
1996 Epoch 979/5000
1997 - 0s - loss: 1.5037e-07
1998 Epoch 980/5000
1999 - 0s - loss: 4.8263e-08
2000 Epoch 981/5000
2001 - 0s - loss: 1.5813e-07
2002 Epoch 982/5000
2003 - 0s - loss: 3.9449e-08
2004 Epoch 983/5000
2005 - 0s - loss: 1.7494e-07
2006 Epoch 984/5000
2007 - 0s - loss: 4.1186e-08
2008 Epoch 985/5000
2009 - 0s - loss: 3.4736e-08
2010 Epoch 986/5000
2011 - 0s - loss: 2.7444e-08
2012 Epoch 987/5000
2013 - 0s - loss: 8.0441e-08
2014 Epoch 988/5000
2015 - 0s - loss: 1.1648e-07
2016 Epoch 989/5000
2017 - 0s - loss: 1.6935e-08
2018 Epoch 990/5000
2019 - 0s - loss: 1.6182e-07
2020 Epoch 991/5000
2021 - 0s - loss: 1.1922e-07
2022 Epoch 992/5000
2023 - 0s - loss: 2.7796e-08
2024 Epoch 993/5000
2025 - 0s - loss: 1.0590e-07
2026 Epoch 994/5000
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2027 - 0s - loss: 3.7487e-08
2028 Epoch 995/5000
2029 - 0s - loss: 1.0588e-07
2030 Epoch 996/5000
2031 - 0s - loss: 4.4665e-08
2032 Epoch 997/5000
2033 - 0s - loss: 1.1353e-07
2034 Epoch 998/5000
2035 - 0s - loss: 3.4661e-08
2036 Epoch 999/5000
2037 - 0s - loss: 5.9516e-08
2038 Epoch 1000/5000
2039 - 0s - loss: 6.3023e-08
2040 Epoch 1001/5000
2041 - 0s - loss: 1.0173e-07
2042 Epoch 1002/5000
2043 - 0s - loss: 2.7462e-08
2044 Epoch 1003/5000
2045 - 0s - loss: 9.0126e-08
2046 Epoch 1004/5000
2047 - 0s - loss: 6.9828e-08
2048 Epoch 1005/5000
2049 - 0s - loss: 4.6789e-08
2050 Epoch 1006/5000
2051 - 0s - loss: 1.3535e-07
2052 Epoch 1007/5000
2053 - 0s - loss: 2.9702e-08
2054 Epoch 1008/5000
2055 - 0s - loss: 6.4153e-08
2056 Epoch 1009/5000
2057 - 0s - loss: 7.2517e-08
2058 Epoch 1010/5000
2059 - 0s - loss: 5.3395e-08
2060 Epoch 1011/5000
2061 - 0s - loss: 1.5006e-07
2062 Epoch 1012/5000
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2063 - 0s - loss: 4.8361e-08
2064 Epoch 1013/5000
2065 - 0s - loss: 1.1735e-07
2066 Epoch 1014/5000
2067 - 0s - loss: 4.1025e-08
2068 Epoch 1015/5000
2069 - 0s - loss: 4.6609e-08
2070 Epoch 1016/5000
2071 - 0s - loss: 5.2984e-08
2072 Epoch 1017/5000
2073 - 0s - loss: 1.3296e-07
2074 Epoch 1018/5000
2075 - 0s - loss: 1.2641e-08
2076 Epoch 1019/5000
2077 - 0s - loss: 9.5309e-08
2078 Epoch 1020/5000
2079 - 0s - loss: 6.1917e-08
2080 Epoch 1021/5000
2081 - 0s - loss: 5.7248e-08
2082 Epoch 1022/5000
2083 - 0s - loss: 1.0915e-07
2084 Epoch 1023/5000
2085 - 0s - loss: 6.1774e-08
2086 Epoch 1024/5000
2087 - 0s - loss: 7.0852e-08
2088 Epoch 1025/5000
2089 - 0s - loss: 3.4381e-08
2090 Epoch 1026/5000
2091 - 0s - loss: 8.4757e-08
2092 Epoch 1027/5000
2093 - 0s - loss: 1.9332e-07
2094 Epoch 1028/5000
2095 - 0s - loss: 6.7903e-09
2096 Epoch 1029/5000
2097 - 0s - loss: 4.7288e-08
2098 Epoch 1030/5000
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2099 - 0s - loss: 4.9619e-08
2100 Epoch 1031/5000
2101 - 0s - loss: 1.1541e-07
2102 Epoch 1032/5000
2103 - 0s - loss: 4.8730e-08
2104 Epoch 1033/5000
2105 - 0s - loss: 1.9190e-07
2106 Epoch 1034/5000
2107 - 0s - loss: 8.6028e-08
2108 Epoch 1035/5000
2109 - 0s - loss: 5.4396e-08
2110 Epoch 1036/5000
2111 - 0s - loss: 1.1834e-07
2112 Epoch 1037/5000
2113 - 0s - loss: 6.3793e-08
2114 Epoch 1038/5000
2115 - 0s - loss: 3.6249e-08
2116 Epoch 1039/5000
2117 - 0s - loss: 9.1906e-08
2118 Epoch 1040/5000
2119 - 0s - loss: 1.0416e-07
2120 Epoch 1041/5000
2121 - 0s - loss: 5.7232e-08
2122 Epoch 1042/5000
2123 - 0s - loss: 1.3665e-08
2124 Epoch 1043/5000
2125 - 0s - loss: 8.9110e-08
2126 Epoch 1044/5000
2127 - 0s - loss: 6.3304e-08
2128 Epoch 1045/5000
2129 - 0s - loss: 5.3019e-08
2130 Epoch 1046/5000
2131 - 0s - loss: 7.5653e-08
2132 Epoch 1047/5000
2133 - 0s - loss: 9.1081e-08
2134 Epoch 1048/5000
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2135 - 0s - loss: 6.8402e-08
2136 Epoch 1049/5000
2137 - 0s - loss: 4.1246e-08
2138 Epoch 1050/5000
2139 - 0s - loss: 9.3861e-08
2140 Epoch 1051/5000
2141 - 0s - loss: 5.4895e-08
2142 Epoch 1052/5000
2143 - 0s - loss: 8.5131e-08
2144 Epoch 1053/5000
2145 - 0s - loss: 5.7983e-08
2146 Epoch 1054/5000
2147 - 0s - loss: 5.4775e-08
2148 Epoch 1055/5000
2149 - 0s - loss: 6.8945e-08
2150 Epoch 1056/5000
2151 - 0s - loss: 9.3630e-08
2152 Epoch 1057/5000
2153 - 0s - loss: 1.1145e-07
2154 Epoch 1058/5000
2155 - 0s - loss: 3.2315e-08
2156 Epoch 1059/5000
2157 - 0s - loss: 5.5756e-08
2158 Epoch 1060/5000
2159 - 0s - loss: 4.7451e-08
2160 Epoch 1061/5000
2161 - 0s - loss: 5.7448e-08
2162 Epoch 1062/5000
2163 - 0s - loss: 8.3246e-08
2164 Epoch 1063/5000
2165 - 0s - loss: 7.6891e-08
2166 Epoch 1064/5000
2167 - 0s - loss: 5.1939e-08
2168 Epoch 1065/5000
2169 - 0s - loss: 8.6709e-08
2170 Epoch 1066/5000
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2171 - 0s - loss: 8.6552e-08
2172 Epoch 1067/5000
2173 - 0s - loss: 2.8883e-08
2174 Epoch 1068/5000
2175 - 0s - loss: 8.0197e-08
2176 Epoch 1069/5000
2177 - 0s - loss: 1.0808e-07
2178 Epoch 1070/5000
2179 - 0s - loss: 7.9973e-08
2180 Epoch 1071/5000
2181 - 0s - loss: 1.2038e-08
2182 Epoch 1072/5000
2183 - 0s - loss: 4.9739e-08
2184 Epoch 1073/5000
2185 - 0s - loss: 5.9450e-08
2186 Epoch 1074/5000
2187 - 0s - loss: 7.7396e-08
2188 Epoch 1075/5000
2189 - 0s - loss: 7.9166e-08
2190 Epoch 1076/5000
2191 - 0s - loss: 4.3607e-08
2192 Epoch 1077/5000
2193 - 0s - loss: 6.3553e-08
2194 Epoch 1078/5000
2195 - 0s - loss: 1.0665e-07
2196 Epoch 1079/5000
2197 - 0s - loss: 4.3307e-08
2198 Epoch 1080/5000
2199 - 0s - loss: 6.8851e-08
2200 Epoch 1081/5000
2201 - 0s - loss: 1.0544e-07
2202 Epoch 1082/5000
2203 - 0s - loss: 2.6252e-08
2204 Epoch 1083/5000
2205 - 0s - loss: 6.2309e-08
2206 Epoch 1084/5000
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2207 - 0s - loss: 5.5338e-08
2208 Epoch 1085/5000
2209 - 0s - loss: 1.2338e-07
2210 Epoch 1086/5000
2211 - 0s - loss: 5.4459e-08
2212 Epoch 1087/5000
2213 - 0s - loss: 1.1591e-08
2214 Epoch 1088/5000
2215 - 0s - loss: 1.0246e-07
2216 Epoch 1089/5000
2217 - 0s - loss: 6.7547e-08
2218 Epoch 1090/5000
2219 - 0s - loss: 2.8453e-08
2220 Epoch 1091/5000
2221 - 0s - loss: 1.2042e-07
2222 Epoch 1092/5000
2223 - 0s - loss: 3.4721e-08
2224 Epoch 1093/5000
2225 - 0s - loss: 6.1985e-08
2226 Epoch 1094/5000
2227 - 0s - loss: 8.7265e-08
2228 Epoch 1095/5000
2229 - 0s - loss: 2.3034e-08
2230 Epoch 1096/5000
2231 - 0s - loss: 1.1784e-07
2232 Epoch 1097/5000
2233 - 0s - loss: 1.7501e-08
2234 Epoch 1098/5000
2235 - 0s - loss: 1.1892e-07
2236 Epoch 1099/5000
2237 - 0s - loss: 4.6988e-08
2238 Epoch 1100/5000
2239 - 0s - loss: 3.4219e-08
2240 Epoch 1101/5000
2241 - 0s - loss: 1.1634e-07
2242 Epoch 1102/5000
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2243 - 0s - loss: 2.8690e-08
2244 Epoch 1103/5000
2245 - 0s - loss: 4.0032e-08
2246 Epoch 1104/5000
2247 - 0s - loss: 9.2311e-08
2248 Epoch 1105/5000
2249 - 0s - loss: 4.4441e-08
2250 Epoch 1106/5000
2251 - 0s - loss: 8.0774e-08
2252 Epoch 1107/5000
2253 - 0s - loss: 5.2704e-08
2254 Epoch 1108/5000
2255 - 0s - loss: 9.6844e-08
2256 Epoch 1109/5000
2257 - 0s - loss: 1.4035e-08
2258 Epoch 1110/5000
2259 - 0s - loss: 1.0786e-07
2260 Epoch 1111/5000
2261 - 0s - loss: 8.4116e-08
2262 Epoch 1112/5000
2263 - 0s - loss: 9.4657e-09
2264 Epoch 1113/5000
2265 - 0s - loss: 9.4174e-08
2266 Epoch 1114/5000
2267 - 0s - loss: 3.2219e-08
2268 Epoch 1115/5000
2269 - 0s - loss: 7.2855e-08
2270 Epoch 1116/5000
2271 - 0s - loss: 5.7240e-08
2272 Epoch 1117/5000
2273 - 0s - loss: 8.8022e-08
2274 Epoch 1118/5000
2275 - 0s - loss: 8.7311e-08
2276 Epoch 1119/5000
2277 - 0s - loss: 1.6128e-08
2278 Epoch 1120/5000
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2279 - 0s - loss: 9.1023e-08
2280 Epoch 1121/5000
2281 - 0s - loss: 3.8424e-08
2282 Epoch 1122/5000
2283 - 0s - loss: 8.2767e-08
2284 Epoch 1123/5000
2285 - 0s - loss: 4.5998e-08
2286 Epoch 1124/5000
2287 - 0s - loss: 8.8340e-08
2288 Epoch 1125/5000
2289 - 0s - loss: 2.9064e-08
2290 Epoch 1126/5000
2291 - 0s - loss: 5.4635e-08
2292 Epoch 1127/5000
2293 - 0s - loss: 1.8515e-07
2294 Epoch 1128/5000
2295 - 0s - loss: 1.7998e-08
2296 Epoch 1129/5000
2297 - 0s - loss: 3.9875e-08
2298 Epoch 1130/5000
2299 - 0s - loss: 2.9119e-08
2300 Epoch 1131/5000
2301 - 0s - loss: 6.6723e-08
2302 Epoch 1132/5000
2303 - 0s - loss: 6.8556e-08
2304 Epoch 1133/5000
2305 - 0s - loss: 3.7499e-08
2306 Epoch 1134/5000
2307 - 0s - loss: 6.0162e-08
2308 Epoch 1135/5000
2309 - 0s - loss: 6.8559e-08
2310 Epoch 1136/5000
2311 - 0s - loss: 4.7145e-08
2312 Epoch 1137/5000
2313 - 0s - loss: 1.0773e-07
2314 Epoch 1138/5000
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2315 - 0s - loss: 3.6798e-08
2316 Epoch 1139/5000
2317 - 0s - loss: 1.6514e-07
2318 Epoch 1140/5000
2319 - 0s - loss: 9.9189e-08
2320 Epoch 1141/5000
2321 - 0s - loss: 6.2969e-09
2322 Epoch 1142/5000
2323 - 0s - loss: 2.8451e-08
2324 Epoch 1143/5000
2325 - 0s - loss: 5.0159e-08
2326 Epoch 1144/5000
2327 - 0s - loss: 8.0786e-08
2328 Epoch 1145/5000
2329 - 0s - loss: 5.9624e-08
2330 Epoch 1146/5000
2331 - 0s - loss: 4.1972e-08
2332 Epoch 1147/5000
2333 - 0s - loss: 5.5740e-08
2334 Epoch 1148/5000
2335 - 0s - loss: 4.4581e-08
2336 Epoch 1149/5000
2337 - 0s - loss: 7.7594e-08
2338 Epoch 1150/5000
2339 - 0s - loss: 5.9123e-08
2340 Epoch 1151/5000
2341 - 0s - loss: 6.7652e-08
2342 Epoch 1152/5000
2343 - 0s - loss: 2.1142e-08
2344 Epoch 1153/5000
2345 - 0s - loss: 1.9470e-07
2346 Epoch 1154/5000
2347 - 0s - loss: 4.2309e-09
2348 Epoch 1155/5000
2349 - 0s - loss: 2.1102e-08
2350 Epoch 1156/5000
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2351 - 0s - loss: 7.7939e-08
2352 Epoch 1157/5000
2353 - 0s - loss: 6.7373e-08
2354 Epoch 1158/5000
2355 - 0s - loss: 5.2434e-08
2356 Epoch 1159/5000
2357 - 0s - loss: 3.5286e-08
2358 Epoch 1160/5000
2359 - 0s - loss: 6.2451e-08
2360 Epoch 1161/5000
2361 - 0s - loss: 1.9054e-07
2362 Epoch 1162/5000
2363 - 0s - loss: 1.4322e-08
2364 Epoch 1163/5000
2365 - 0s - loss: 2.2661e-08
2366 Epoch 1164/5000
2367 - 0s - loss: 3.7590e-08
2368 Epoch 1165/5000
2369 - 0s - loss: 6.1677e-08
2370 Epoch 1166/5000
2371 - 0s - loss: 8.0403e-08
2372 Epoch 1167/5000
2373 - 0s - loss: 3.9054e-08
2374 Epoch 1168/5000
2375 - 0s - loss: 5.0156e-08
2376 Epoch 1169/5000
2377 - 0s - loss: 1.6030e-07
2378 Epoch 1170/5000
2379 - 0s - loss: 5.4071e-08
2380 Epoch 1171/5000
2381 - 0s - loss: 1.4736e-08
2382 Epoch 1172/5000
2383 - 0s - loss: 6.5303e-08
2384 Epoch 1173/5000
2385 - 0s - loss: 1.6276e-08
2386 Epoch 1174/5000
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2387 - 0s - loss: 1.1032e-07
2388 Epoch 1175/5000
2389 - 0s - loss: 2.8930e-08
2390 Epoch 1176/5000
2391 - 0s - loss: 6.8059e-08
2392 Epoch 1177/5000
2393 - 0s - loss: 4.8159e-08
2394 Epoch 1178/5000
2395 - 0s - loss: 6.0289e-08
2396 Epoch 1179/5000
2397 - 0s - loss: 4.3668e-08
2398 Epoch 1180/5000
2399 - 0s - loss: 4.6810e-08
2400 Epoch 1181/5000
2401 - 0s - loss: 6.8447e-08
2402 Epoch 1182/5000
2403 - 0s - loss: 4.8533e-08
2404 Epoch 1183/5000
2405 - 0s - loss: 7.6433e-08
2406 Epoch 1184/5000
2407 - 0s - loss: 8.7440e-08
2408 Epoch 1185/5000
2409 - 0s - loss: 1.7989e-08
2410 Epoch 1186/5000
2411 - 0s - loss: 3.7956e-08
2412 Epoch 1187/5000
2413 - 0s - loss: 7.3461e-08
2414 Epoch 1188/5000
2415 - 0s - loss: 4.3264e-08
2416 Epoch 1189/5000
2417 - 0s - loss: 6.3670e-08
2418 Epoch 1190/5000
2419 - 0s - loss: 9.0385e-08
2420 Epoch 1191/5000
2421 - 0s - loss: 5.1578e-08
2422 Epoch 1192/5000
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2423 - 0s - loss: 3.2223e-08
2424 Epoch 1193/5000
2425 - 0s - loss: 8.3515e-08
2426 Epoch 1194/5000
2427 - 0s - loss: 3.5756e-08
2428 Epoch 1195/5000
2429 - 0s - loss: 4.6921e-08
2430 Epoch 1196/5000
2431 - 0s - loss: 4.4229e-08
2432 Epoch 1197/5000
2433 - 0s - loss: 6.9746e-08
2434 Epoch 1198/5000
2435 - 0s - loss: 5.4361e-08
2436 Epoch 1199/5000
2437 - 0s - loss: 4.9756e-08
2438 Epoch 1200/5000
2439 - 0s - loss: 6.5099e-08
2440 Epoch 1201/5000
2441 - 0s - loss: 7.9649e-08
2442 Epoch 1202/5000
2443 - 0s - loss: 3.7927e-08
2444 Epoch 1203/5000
2445 - 0s - loss: 1.2036e-07
2446 Epoch 1204/5000
2447 - 0s - loss: 5.2767e-08
2448 Epoch 1205/5000
2449 - 0s - loss: 1.9716e-08
2450 Epoch 1206/5000
2451 - 0s - loss: 8.6739e-08
2452 Epoch 1207/5000
2453 - 0s - loss: 7.0148e-08
2454 Epoch 1208/5000
2455 - 0s - loss: 6.9661e-08
2456 Epoch 1209/5000
2457 - 0s - loss: 2.7515e-08
2458 Epoch 1210/5000
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2459 - 0s - loss: 5.0597e-08
2460 Epoch 1211/5000
2461 - 0s - loss: 5.6085e-08
2462 Epoch 1212/5000
2463 - 0s - loss: 4.1736e-08
2464 Epoch 1213/5000
2465 - 0s - loss: 9.2948e-08
2466 Epoch 1214/5000
2467 - 0s - loss: 6.3229e-09
2468 Epoch 1215/5000
2469 - 0s - loss: 8.9870e-08
2470 Epoch 1216/5000
2471 - 0s - loss: 2.4944e-08
2472 Epoch 1217/5000
2473 - 0s - loss: 7.4607e-08
2474 Epoch 1218/5000
2475 - 0s - loss: 4.0669e-08
2476 Epoch 1219/5000
2477 - 0s - loss: 7.2662e-08
2478 Epoch 1220/5000
2479 - 0s - loss: 6.7423e-08
2480 Epoch 1221/5000
2481 - 0s - loss: 2.5393e-08
2482 Epoch 1222/5000
2483 - 0s - loss: 7.0022e-08
2484 Epoch 1223/5000
2485 - 0s - loss: 5.6344e-08
2486 Epoch 1224/5000
2487 - 0s - loss: 5.8728e-08
2488 Epoch 1225/5000
2489 - 0s - loss: 3.5335e-08
2490 Epoch 1226/5000
2491 - 0s - loss: 1.1533e-07
2492 Epoch 1227/5000
2493 - 0s - loss: 1.0443e-08
2494 Epoch 1228/5000
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2495 - 0s - loss: 9.9420e-08
2496 Epoch 1229/5000
2497 - 0s - loss: 8.3739e-09
2498 Epoch 1230/5000
2499 - 0s - loss: 5.5416e-08
2500 Epoch 1231/5000
2501 - 0s - loss: 4.6518e-08
2502 Epoch 1232/5000
2503 - 0s - loss: 6.1813e-08
2504 Epoch 1233/5000
2505 - 0s - loss: 9.6492e-08
2506 Epoch 1234/5000
2507 - 0s - loss: 2.5227e-08
2508 Epoch 1235/5000
2509 - 0s - loss: 4.1169e-08
2510 Epoch 1236/5000
2511 - 0s - loss: 1.0006e-07
2512 Epoch 1237/5000
2513 - 0s - loss: 1.6546e-08
2514 Epoch 1238/5000
2515 - 0s - loss: 7.4455e-08
2516 Epoch 1239/5000
2517 - 0s - loss: 4.0777e-08
2518 Epoch 1240/5000
2519 - 0s - loss: 3.0713e-08
2520 Epoch 1241/5000
2521 - 0s - loss: 1.1773e-07
2522 Epoch 1242/5000
2523 - 0s - loss: 1.2896e-08
2524 Epoch 1243/5000
2525 - 0s - loss: 5.3865e-08
2526 Epoch 1244/5000
2527 - 0s - loss: 5.3044e-08
2528 Epoch 1245/5000
2529 - 0s - loss: 4.4983e-08
2530 Epoch 1246/5000
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2531 - 0s - loss: 7.2976e-08
2532 Epoch 1247/5000
2533 - 0s - loss: 6.4744e-08
2534 Epoch 1248/5000
2535 - 0s - loss: 4.5865e-08
2536 Epoch 1249/5000
2537 - 0s - loss: 1.8303e-08
2538 Epoch 1250/5000
2539 - 0s - loss: 6.2219e-08
2540 Epoch 1251/5000
2541 - 0s - loss: 5.4269e-08
2542 Epoch 1252/5000
2543 - 0s - loss: 6.3602e-08
2544 Epoch 1253/5000
2545 - 0s - loss: 8.4049e-08
2546 Epoch 1254/5000
2547 - 0s - loss: 1.9771e-08
2548 Epoch 1255/5000
2549 - 0s - loss: 7.0316e-08
2550 Epoch 1256/5000
2551 - 0s - loss: 1.1353e-07
2552 Epoch 1257/5000
2553 - 0s - loss: 9.4727e-09
2554 Epoch 1258/5000
2555 - 0s - loss: 2.8110e-08
2556 Epoch 1259/5000
2557 - 0s - loss: 8.7224e-08
2558 Epoch 1260/5000
2559 - 0s - loss: 3.4005e-08
2560 Epoch 1261/5000
2561 - 0s - loss: 3.2739e-08
2562 Epoch 1262/5000
2563 - 0s - loss: 5.7258e-08
2564 Epoch 1263/5000
2565 - 0s - loss: 4.8526e-08
2566 Epoch 1264/5000
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2567 - 0s - loss: 7.5260e-08
2568 Epoch 1265/5000
2569 - 0s - loss: 2.9429e-08
2570 Epoch 1266/5000
2571 - 0s - loss: 5.1142e-08
2572 Epoch 1267/5000
2573 - 0s - loss: 1.0730e-07
2574 Epoch 1268/5000
2575 - 0s - loss: 2.9632e-08
2576 Epoch 1269/5000
2577 - 0s - loss: 3.2528e-08
2578 Epoch 1270/5000
2579 - 0s - loss: 5.9000e-08
2580 Epoch 1271/5000
2581 - 0s - loss: 5.1216e-08
2582 Epoch 1272/5000
2583 - 0s - loss: 3.0088e-08
2584 Epoch 1273/5000
2585 - 0s - loss: 9.3720e-08
2586 Epoch 1274/5000
2587 - 0s - loss: 2.9869e-08
2588 Epoch 1275/5000
2589 - 0s - loss: 9.0658e-08
2590 Epoch 1276/5000
2591 - 0s - loss: 2.3666e-08
2592 Epoch 1277/5000
2593 - 0s - loss: 4.6124e-08
2594 Epoch 1278/5000
2595 - 0s - loss: 9.4661e-08
2596 Epoch 1279/5000
2597 - 0s - loss: 2.6300e-08
2598 Epoch 1280/5000
2599 - 0s - loss: 4.1845e-08
2600 Epoch 1281/5000
2601 - 0s - loss: 5.2666e-08
2602 Epoch 1282/5000
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2603 - 0s - loss: 3.7589e-08
2604 Epoch 1283/5000
2605 - 0s - loss: 7.0163e-08
2606 Epoch 1284/5000
2607 - 0s - loss: 4.0469e-08
2608 Epoch 1285/5000
2609 - 0s - loss: 5.0537e-08
2610 Epoch 1286/5000
2611 - 0s - loss: 9.1802e-08
2612 Epoch 1287/5000
2613 - 0s - loss: 3.6929e-08
2614 Epoch 1288/5000
2615 - 0s - loss: 2.8241e-08
2616 Epoch 1289/5000
2617 - 0s - loss: 5.6520e-08
2618 Epoch 1290/5000
2619 - 0s - loss: 6.5466e-08
2620 Epoch 1291/5000
2621 - 0s - loss: 2.0632e-08
2622 Epoch 1292/5000
2623 - 0s - loss: 8.8135e-08
2624 Epoch 1293/5000
2625 - 0s - loss: 4.0028e-08
2626 Epoch 1294/5000
2627 - 0s - loss: 7.3993e-08
2628 Epoch 1295/5000
2629 - 0s - loss: 1.6396e-08
2630 Epoch 1296/5000
2631 - 0s - loss: 7.1361e-08
2632 Epoch 1297/5000
2633 - 0s - loss: 3.8272e-08
2634 Epoch 1298/5000
2635 - 0s - loss: 7.4607e-08
2636 Epoch 1299/5000
2637 - 0s - loss: 3.5874e-08
2638 Epoch 1300/5000
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2639 - 0s - loss: 6.7257e-08
2640 Epoch 1301/5000
2641 - 0s - loss: 1.6070e-08
2642 Epoch 1302/5000
2643 - 0s - loss: 8.6344e-08
2644 Epoch 1303/5000
2645 - 0s - loss: 7.9811e-08
2646 Epoch 1304/5000
2647 - 0s - loss: 2.2176e-08
2648 Epoch 1305/5000
2649 - 0s - loss: 1.8553e-08
2650 Epoch 1306/5000
2651 - 0s - loss: 9.5749e-08
2652 Epoch 1307/5000
2653 - 0s - loss: 2.5397e-08
2654 Epoch 1308/5000
2655 - 0s - loss: 3.7147e-08
2656 Epoch 1309/5000
2657 - 0s - loss: 3.8246e-08
2658 Epoch 1310/5000
2659 - 0s - loss: 8.3095e-08
2660 Epoch 1311/5000
2661 - 0s - loss: 4.2054e-08
2662 Epoch 1312/5000
2663 - 0s - loss: 4.3379e-08
2664 Epoch 1313/5000
2665 - 0s - loss: 4.0511e-08
2666 Epoch 1314/5000
2667 - 0s - loss: 7.5002e-08
2668 Epoch 1315/5000
2669 - 0s - loss: 6.4751e-08
2670 Epoch 1316/5000
2671 - 0s - loss: 4.2170e-08
2672 Epoch 1317/5000
2673 - 0s - loss: 3.8340e-08
2674 Epoch 1318/5000
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2675 - 0s - loss: 4.2984e-08
2676 Epoch 1319/5000
2677 - 0s - loss: 7.0623e-08
2678 Epoch 1320/5000
2679 - 0s - loss: 7.7384e-08
2680 Epoch 1321/5000
2681 - 0s - loss: 1.6395e-08
2682 Epoch 1322/5000
2683 - 0s - loss: 5.4624e-08
2684 Epoch 1323/5000
2685 - 0s - loss: 6.1866e-08
2686 Epoch 1324/5000
2687 - 0s - loss: 3.8158e-08
2688 Epoch 1325/5000
2689 - 0s - loss: 9.4534e-08
2690 Epoch 1326/5000
2691 - 0s - loss: 1.1547e-08
2692 Epoch 1327/5000
2693 - 0s - loss: 4.6299e-08
2694 Epoch 1328/5000
2695 - 0s - loss: 3.6247e-08
2696 Epoch 1329/5000
2697 - 0s - loss: 5.8645e-08
2698 Epoch 1330/5000
2699 - 0s - loss: 1.7191e-07
2700 Epoch 1331/5000
2701 - 0s - loss: 2.4717e-08
2702 Epoch 1332/5000
2703 - 0s - loss: 3.6787e-08
2704 Epoch 1333/5000
2705 - 0s - loss: 3.6336e-08
2706 Epoch 1334/5000
2707 - 0s - loss: 5.1579e-08
2708 Epoch 1335/5000
2709 - 0s - loss: 2.2732e-08
2710 Epoch 1336/5000
```

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2711 - 0s - loss: 3.0326e-08
2712 Epoch 1337/5000
2713 - 0s - loss: 7.5532e-08
2714 Epoch 1338/5000
2715 - 0s - loss: 3.0296e-08
2716 Epoch 1339/5000
2717 - 0s - loss: 5.7325e-08
2718 Epoch 1340/5000
2719 - 0s - loss: 4.6637e-08
2720 Epoch 1341/5000
2721 - 0s - loss: 3.6863e-08
2722 Epoch 1342/5000
2723 - 0s - loss: 4.9293e-08
2724 Epoch 1343/5000
2725 - 0s - loss: 3.8450e-08
2726 Epoch 1344/5000
2727 - 0s - loss: 7.7558e-08
2728 Epoch 1345/5000
2729 - 0s - loss: 5.2876e-08
2730 Epoch 1346/5000
2731 - 0s - loss: 2.1530e-08
2732 Epoch 1347/5000
2733 - 0s - loss: 5.6316e-08
2734 Epoch 1348/5000
2735 - 0s - loss: 3.4695e-08
2736 Epoch 1349/5000
2737 - 0s - loss: 9.2745e-08
2738 Epoch 1350/5000
2739 - 0s - loss: 1.9304e-08
2740 Epoch 1351/5000
2741 - 0s - loss: 5.5505e-08
2742 Epoch 1352/5000
2743 - 0s - loss: 2.4830e-08
2744 Epoch 1353/5000
2745 - 0s - loss: 5.9031e-08
2746 Epoch 1354/5000
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2747 - 0s - loss: 5.6718e-08
2748 Epoch 1355/5000
2749 - 0s - loss: 3.6327e-08
2750 Epoch 1356/5000
2751 - 0s - loss: 6.2903e-08
2752 Epoch 1357/5000
2753 - 0s - loss: 2.9272e-08
2754 Epoch 1358/5000
2755 - 0s - loss: 5.1483e-08
2756 Epoch 1359/5000
2757 - 0s - loss: 4.2264e-08
2758 Epoch 1360/5000
2759 - 0s - loss: 5.1088e-08
2760 Epoch 1361/5000
2761 - 0s - loss: 6.2107e-08
2762 Epoch 1362/5000
2763 - 0s - loss: 6.3157e-08
2764 Epoch 1363/5000
2765 - 0s - loss: 3.0805e-08
2766 Epoch 1364/5000
2767 - 0s - loss: 3.0702e-08
2768 Epoch 1365/5000
2769 - 0s - loss: 4.4048e-08
2770 Epoch 1366/5000
2771 - 0s - loss: 4.3123e-08
2772 Epoch 1367/5000
2773 - 0s - loss: 8.8695e-08
2774 Epoch 1368/5000
2775 - 0s - loss: 5.3863e-08
2776 Epoch 1369/5000
2777 - 0s - loss: 2.1738e-08
2778 Epoch 1370/5000
2779 - 0s - loss: 3.7724e-08
2780 Epoch 1371/5000
2781 - 0s - loss: 9.5289e-08
2782 Epoch 1372/5000
```

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2783 - 0s - loss: 4.4365e-08
2784 Epoch 1373/5000
2785 - 0s - loss: 1.1088e-08
2786 Epoch 1374/5000
2787 - 0s - loss: 1.0618e-07
2788 Epoch 1375/5000
2789 - 0s - loss: 7.2893e-09
2790 Epoch 1376/5000
2791 - 0s - loss: 2.5614e-08
2792 Epoch 1377/5000
2793 - 0s - loss: 7.6475e-08
2794 Epoch 1378/5000
2795 - 0s - loss: 3.5686e-08
2796 Epoch 1379/5000
2797 - 0s - loss: 3.1332e-08
2798 Epoch 1380/5000
2799 - 0s - loss: 5.2089e-08
2800 Epoch 1381/5000
2801 - 0s - loss: 5.4207e-08
2802 Epoch 1382/5000
2803 - 0s - loss: 5.1740e-08
2804 Epoch 1383/5000
2805 - 0s - loss: 4.2378e-08
2806 Epoch 1384/5000
2807 - 0s - loss: 6.3845e-08
2808 Epoch 1385/5000
2809 - 0s - loss: 3.9750e-08
2810 Epoch 1386/5000
2811 - 0s - loss: 1.9683e-08
2812 Epoch 1387/5000
2813 - 0s - loss: 6.3092e-08
2814 Epoch 1388/5000
2815 - 0s - loss: 2.4704e-08
2816 Epoch 1389/5000
2817 - 0s - loss: 1.0284e-07
2818 Epoch 1390/5000
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2819 - 0s - loss: 2.9830e-08
2820 Epoch 1391/5000
2821 - 0s - loss: 2.0300e-08
2822 Epoch 1392/5000
2823 - 0s - loss: 4.8103e-08
2824 Epoch 1393/5000
2825 - 0s - loss: 6.8656e-08
2826 Epoch 1394/5000
2827 - 0s - loss: 2.5214e-08
2828 Epoch 1395/5000
2829 - 0s - loss: 3.1870e-08
2830 Epoch 1396/5000
2831 - 0s - loss: 7.1011e-08
2832 Epoch 1397/5000
2833 - 0s - loss: 4.2602e-08
2834 Epoch 1398/5000
2835 - 0s - loss: 2.7697e-08
2836 Epoch 1399/5000
2837 - 0s - loss: 4.0248e-08
2838 Epoch 1400/5000
2839 - 0s - loss: 7.3954e-08
2840 Epoch 1401/5000
2841 - 0s - loss: 2.9447e-08
2842 Epoch 1402/5000
2843 - 0s - loss: 6.9732e-08
2844 Epoch 1403/5000
2845 - 0s - loss: 3.5424e-08
2846 Epoch 1404/5000
2847 - 0s - loss: 4.5534e-08
2848 Epoch 1405/5000
2849 - 0s - loss: 4.7207e-08
2850 Epoch 1406/5000
2851 - 0s - loss: 3.1146e-08
2852 Epoch 1407/5000
2853 - 0s - loss: 7.1482e-08
2854 Epoch 1408/5000
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2855 - 0s - loss: 6.5965e-08
2856 Epoch 1409/5000
2857 - 0s - loss: 3.4353e-08
2858 Epoch 1410/5000
2859 - 0s - loss: 2.5387e-08
2860 Epoch 1411/5000
2861 - 0s - loss: 5.6796e-08
2862 Epoch 1412/5000
2863 - 0s - loss: 4.8114e-08
2864 Epoch 1413/5000
2865 - 0s - loss: 3.8160e-08
2866 Epoch 1414/5000
2867 - 0s - loss: 3.9555e-08
2868 Epoch 1415/5000
2869 - 0s - loss: 3.6557e-08
2870 Epoch 1416/5000
2871 - 0s - loss: 5.3508e-08
2872 Epoch 1417/5000
2873 - 0s - loss: 4.8095e-08
2874 Epoch 1418/5000
2875 - 0s - loss: 3.0907e-08
2876 Epoch 1419/5000
2877 - 0s - loss: 5.2555e-08
2878 Epoch 1420/5000
2879 - 0s - loss: 4.2928e-08
2880 Epoch 1421/5000
2881 - 0s - loss: 4.7530e-08
2882 Epoch 1422/5000
2883 - 0s - loss: 2.7766e-08
2884 Epoch 1423/5000
2885 - 0s - loss: 6.8286e-08
2886 Epoch 1424/5000
2887 - 0s - loss: 2.6234e-08
2888 Epoch 1425/5000
2889 - 0s - loss: 5.3495e-08
2890 Epoch 1426/5000
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2891 - 0s - loss: 9.7569e-08
2892 Epoch 1427/5000
2893 - 0s - loss: 9.5751e-09
2894 Epoch 1428/5000
2895 - 0s - loss: 2.8475e-08
2896 Epoch 1429/5000
2897 - 0s - loss: 6.5191e-08
2898 Epoch 1430/5000
2899 - 0s - loss: 2.6858e-08
2900 Epoch 1431/5000
2901 - 0s - loss: 4.1111e-08
2902 Epoch 1432/5000
2903 - 0s - loss: 3.5955e-08
2904 Epoch 1433/5000
2905 - 0s - loss: 5.0243e-08
2906 Epoch 1434/5000
2907 - 0s - loss: 3.9161e-08
2908 Epoch 1435/5000
2909 - 0s - loss: 3.0929e-08
2910 Epoch 1436/5000
2911 - 0s - loss: 9.1441e-08
2912 Epoch 1437/5000
2913 - 0s - loss: 8.1957e-09
2914 Epoch 1438/5000
2915 - 0s - loss: 1.0731e-07
2916 Epoch 1439/5000
2917 - 0s - loss: 1.5679e-08
2918 Epoch 1440/5000
2919 - 0s - loss: 3.0788e-08
2920 Epoch 1441/5000
2921 - 0s - loss: 7.6570e-08
2922 Epoch 1442/5000
2923 - 0s - loss: 1.0108e-08
2924 Epoch 1443/5000
2925 - 0s - loss: 3.9836e-08
2926 Epoch 1444/5000
```

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2927 - 0s - loss: 4.3610e-08
2928 Epoch 1445/5000
2929 - 0s - loss: 4.1489e-08
2930 Epoch 1446/5000
2931 - 0s - loss: 4.3429e-08
2932 Epoch 1447/5000
2933 - 0s - loss: 3.2848e-08
2934 Epoch 1448/5000
2935 - 0s - loss: 5.2592e-08
2936 Epoch 1449/5000
2937 - 0s - loss: 4.6377e-08
2938 Epoch 1450/5000
2939 - 0s - loss: 3.4559e-08
2940 Epoch 1451/5000
2941 - 0s - loss: 6.7519e-08
2942 Epoch 1452/5000
2943 - 0s - loss: 2.7746e-08
2944 Epoch 1453/5000
2945 - 0s - loss: 4.6435e-08
2946 Epoch 1454/5000
2947 - 0s - loss: 3.2041e-08
2948 Epoch 1455/5000
2949 - 0s - loss: 6.1551e-08
2950 Epoch 1456/5000
2951 - 0s - loss: 2.7598e-08
2952 Epoch 1457/5000
2953 - 0s - loss: 7.9733e-08
2954 Epoch 1458/5000
2955 - 0s - loss: 1.8370e-08
2956 Epoch 1459/5000
2957 - 0s - loss: 3.3828e-08
2958 Epoch 1460/5000
2959 - 0s - loss: 6.2506e-08
2960 Epoch 1461/5000
2961 - 0s - loss: 6.3908e-08
2962 Epoch 1462/5000
```

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2963 - 0s - loss: 9.7580e-09
2964 Epoch 1463/5000
2965 - 0s - loss: 5.2559e-08
2966 Epoch 1464/5000
2967 - 0s - loss: 3.4217e-08
2968 Epoch 1465/5000
2969 - 0s - loss: 4.0599e-08
2970 Epoch 1466/5000
2971 - 0s - loss: 5.1077e-08
2972 Epoch 1467/5000
2973 - 0s - loss: 4.6611e-08
2974 Epoch 1468/5000
2975 - 0s - loss: 3.7066e-08
2976 Epoch 1469/5000
2977 - 0s - loss: 4.2718e-08
2978 Epoch 1470/5000
2979 - 0s - loss: 3.2295e-08
2980 Epoch 1471/5000
2981 - 0s - loss: 4.5769e-08
2982 Epoch 1472/5000
2983 - 0s - loss: 8.8658e-08
2984 Epoch 1473/5000
2985 - 0s - loss: 4.9223e-09
2986 Epoch 1474/5000
2987 - 0s - loss: 4.0526e-08
2988 Epoch 1475/5000
2989 - 0s - loss: 3.8825e-08
2990 Epoch 1476/5000
2991 - 0s - loss: 7.1550e-08
2992 Epoch 1477/5000
2993 - 0s - loss: 8.0291e-09
2994 Epoch 1478/5000
2995 - 0s - loss: 8.4779e-08
2996 Epoch 1479/5000
2997 - 0s - loss: 1.0169e-08
2998 Epoch 1480/5000
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2999 - 0s - loss: 4.8963e-08
3000 Epoch 1481/5000
3001 - 0s - loss: 2.4068e-08
3002 Epoch 1482/5000
3003 - 0s - loss: 4.9810e-08
3004 Epoch 1483/5000
3005 - 0s - loss: 1.3427e-07
3006 Epoch 1484/5000
3007 - 0s - loss: 8.0425e-09
3008 Epoch 1485/5000
3009 - 0s - loss: 1.1549e-08
3010 Epoch 1486/5000
3011 - 0s - loss: 4.9532e-08
3012 Epoch 1487/5000
3013 - 0s - loss: 1.6928e-08
3014 Epoch 1488/5000
3015 - 0s - loss: 4.7491e-08
3016 Epoch 1489/5000
3017 - 0s - loss: 7.1333e-08
3018 Epoch 1490/5000
3019 - 0s - loss: 1.1266e-08
3020 Epoch 1491/5000
3021 - 0s - loss: 3.6895e-08
3022 Epoch 1492/5000
3023 - 0s - loss: 7.4149e-08
3024 Epoch 1493/5000
3025 - 0s - loss: 2.9758e-08
3026 Epoch 1494/5000
3027 - 0s - loss: 5.0358e-08
3028 Epoch 1495/5000
3029 - 0s - loss: 1.6565e-08
3030 Epoch 1496/5000
3031 - 0s - loss: 4.4666e-08
3032 Epoch 1497/5000
3033 - 0s - loss: 2.8500e-08
3034 Epoch 1498/5000
```

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3035 - 0s - loss: 4.6755e-08
3036 Epoch 1499/5000
3037 - 0s - loss: 5.6337e-08
3038 Epoch 1500/5000
3039 - 0s - loss: 2.8931e-08
3040 Epoch 1501/5000
3041 - 0s - loss: 9.1355e-08
3042 Epoch 1502/5000
3043 - 0s - loss: 1.1067e-08
3044 Epoch 1503/5000
3045 - 0s - loss: 6.7945e-08
3046 Epoch 1504/5000
3047 - 0s - loss: 2.0861e-08
3048 Epoch 1505/5000
3049 - 0s - loss: 2.9669e-08
3050 Epoch 1506/5000
3051 - 0s - loss: 3.8882e-08
3052 Epoch 1507/5000
3053 - 0s - loss: 5.6991e-08
3054 Epoch 1508/5000
3055 - 0s - loss: 2.9180e-08
3056 Epoch 1509/5000
3057 - 0s - loss: 6.6208e-08
3058 Epoch 1510/5000
3059 - 0s - loss: 2.1262e-08
3060 Epoch 1511/5000
3061 - 0s - loss: 5.3342e-08
3062 Epoch 1512/5000
3063 - 0s - loss: 2.7366e-08
3064 Epoch 1513/5000
3065 - 0s - loss: 7.5430e-08
3066 Epoch 1514/5000
3067 - 0s - loss: 5.0499e-09
3068 Epoch 1515/5000
3069 - 0s - loss: 3.6970e-08
3070 Epoch 1516/5000
```

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3071 - 0s - loss: 6.0009e-08
3072 Epoch 1517/5000
3073 - 0s - loss: 3.3872e-08
3074 Epoch 1518/5000
3075 - 0s - loss: 3.8814e-08
3076 Epoch 1519/5000
3077 - 0s - loss: 2.1334e-08
3078 Epoch 1520/5000
3079 - 0s - loss: 4.2998e-08
3080 Epoch 1521/5000
3081 - 0s - loss: 4.3484e-08
3082 Epoch 1522/5000
3083 - 0s - loss: 3.7076e-08
3084 Epoch 1523/5000
3085 - 0s - loss: 6.0951e-08
3086 Epoch 1524/5000
3087 - 0s - loss: 2.5300e-08
3088 Epoch 1525/5000
3089 - 0s - loss: 3.7986e-08
3090 Epoch 1526/5000
3091 - 0s - loss: 4.6771e-08
3092 Epoch 1527/5000
3093 - 0s - loss: 7.4089e-08
3094 Epoch 1528/5000
3095 - 0s - loss: 1.0358e-08
3096 Epoch 1529/5000
3097 - 0s - loss: 5.6825e-08
3098 Epoch 1530/5000
3099 - 0s - loss: 4.0450e-08
3100 Epoch 1531/5000
3101 - 0s - loss: 1.4884e-08
3102 Epoch 1532/5000
3103 - 0s - loss: 3.5109e-08
3104 Epoch 1533/5000
3105 - 0s - loss: 8.9273e-08
3106 Epoch 1534/5000
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3107 - 0s - loss: 2.8865e-08
3108 Epoch 1535/5000
3109 - 0s - loss: 3.2106e-08
3110 Epoch 1536/5000
3111 - 0s - loss: 4.3676e-08
3112 Epoch 1537/5000
3113 - 0s - loss: 2.0050e-08
3114 Epoch 1538/5000
3115 - 0s - loss: 6.9377e-08
3116 Epoch 1539/5000
3117 - 0s - loss: 2.5440e-08
3118 Epoch 1540/5000
3119 - 0s - loss: 6.4404e-08
3120 Epoch 1541/5000
3121 - 0s - loss: 1.9970e-08
3122 Epoch 1542/5000
3123 - 0s - loss: 2.0744e-08
3124 Epoch 1543/5000
3125 - 0s - loss: 6.2272e-08
3126 Epoch 1544/5000
3127 - 0s - loss: 2.9885e-08
3128 Epoch 1545/5000
3129 - 0s - loss: 3.4944e-08
3130 Epoch 1546/5000
3131 - 0s - loss: 4.5041e-08
3132 Epoch 1547/5000
3133 - 0s - loss: 4.1384e-08
3134 Epoch 1548/5000
3135 - 0s - loss: 3.4305e-08
3136 Epoch 1549/5000
3137 - 0s - loss: 2.4856e-08
3138 Epoch 1550/5000
3139 - 0s - loss: 6.4493e-08
3140 Epoch 1551/5000
3141 - 0s - loss: 3.0967e-08
3142 Epoch 1552/5000
```

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3143 - 0s - loss: 4.7876e-08
3144 Epoch 1553/5000
3145 - 0s - loss: 1.7574e-08
3146 Epoch 1554/5000
3147 - 0s - loss: 4.9974e-08
3148 Epoch 1555/5000
3149 - 0s - loss: 4.5159e-08
3150 Epoch 1556/5000
3151 - 0s - loss: 3.7627e-08
3152 Epoch 1557/5000
3153 - 0s - loss: 3.1447e-08
3154 Epoch 1558/5000
3155 - 0s - loss: 6.6979e-08
3156 Epoch 1559/5000
3157 - 0s - loss: 2.7362e-08
3158 Epoch 1560/5000
3159 - 0s - loss: 3.0237e-08
3160 Epoch 1561/5000
3161 - 0s - loss: 8.4088e-08
3162 Epoch 1562/5000
3163 - 0s - loss: 3.3915e-08
3164 Epoch 1563/5000
3165 - 0s - loss: 2.7077e-08
3166 Epoch 1564/5000
3167 - 0s - loss: 2.2937e-08
3168 Epoch 1565/5000
3169 - 0s - loss: 9.7262e-08
3170 Epoch 1566/5000
3171 - 0s - loss: 2.1138e-08
3172 Epoch 1567/5000
3173 - 0s - loss: 7.2645e-09
3174 Epoch 1568/5000
3175 - 0s - loss: 4.7599e-08
3176 Epoch 1569/5000
3177 - 0s - loss: 3.8200e-08
3178 Epoch 1570/5000
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3179 - 0s - loss: 2.5789e-08
3180 Epoch 1571/5000
3181 - 0s - loss: 6.0918e-08
3182 Epoch 1572/5000
3183 - 0s - loss: 6.0272e-08
3184 Epoch 1573/5000
3185 - 0s - loss: 9.0743e-09
3186 Epoch 1574/5000
3187 - 0s - loss: 5.2878e-08
3188 Epoch 1575/5000
3189 - 0s - loss: 2.4676e-08
3190 Epoch 1576/5000
3191 - 0s - loss: 4.2049e-08
3192 Epoch 1577/5000
3193 - 0s - loss: 4.1244e-08
3194 Epoch 1578/5000
3195 - 0s - loss: 2.6840e-08
3196 Epoch 1579/5000
3197 - 0s - loss: 5.2159e-08
3198 Epoch 1580/5000
3199 - 0s - loss: 2.9999e-08
3200 Epoch 1581/5000
3201 - 0s - loss: 3.9211e-08
3202 Epoch 1582/5000
3203 - 0s - loss: 2.6058e-08
3204 Epoch 1583/5000
3205 - 0s - loss: 5.4582e-08
3206 Epoch 1584/5000
3207 - 0s - loss: 3.7389e-08
3208 Epoch 1585/5000
3209 - 0s - loss: 1.7378e-08
3210 Epoch 1586/5000
3211 - 0s - loss: 4.7312e-08
3212 Epoch 1587/5000
3213 - 0s - loss: 6.4521e-08
3214 Epoch 1588/5000
```

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3215 - 0s - loss: 8.7273e-09
3216 Epoch 1589/5000
3217 - 0s - loss: 6.7800e-08
3218 Epoch 1590/5000
3219 - 0s - loss: 1.7343e-08
3220 Epoch 1591/5000
3221 - 0s - loss: 3.0163e-08
3222 Epoch 1592/5000
3223 - 0s - loss: 4.3031e-08
3224 Epoch 1593/5000
3225 - 0s - loss: 4.4547e-08
3226 Epoch 1594/5000
3227 - 0s - loss: 2.6123e-08
3228 Epoch 1595/5000
3229 - 0s - loss: 5.3626e-08
3230 Epoch 1596/5000
3231 - 0s - loss: 2.8234e-08
3232 Epoch 1597/5000
3233 - 0s - loss: 4.3944e-08
3234 Epoch 1598/5000
3235 - 0s - loss: 2.4459e-08
3236 Epoch 1599/5000
3237 - 0s - loss: 4.5939e-08
3238 Epoch 1600/5000
3239 - 0s - loss: 3.9357e-08
3240 Epoch 1601/5000
3241 - 0s - loss: 2.0628e-08
3242 Epoch 1602/5000
3243 - 0s - loss: 5.7642e-08
3244 Epoch 1603/5000
3245 - 0s - loss: 4.8174e-08
3246 Epoch 1604/5000
3247 - 0s - loss: 3.5184e-08
3248 Epoch 1605/5000
3249 - 0s - loss: 2.7685e-08
3250 Epoch 1606/5000
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3251 - 0s - loss: 4.3622e-08
3252 Epoch 1607/5000
3253 - 0s - loss: 2.8913e-08
3254 Epoch 1608/5000
3255 - 0s - loss: 1.7867e-08
3256 Epoch 1609/5000
3257 - 0s - loss: 6.7271e-08
3258 Epoch 1610/5000
3259 - 0s - loss: 1.9851e-08
3260 Epoch 1611/5000
3261 - 0s - loss: 8.1570e-08
3262 Epoch 1612/5000
3263 - 0s - loss: 1.8925e-08
3264 Epoch 1613/5000
3265 - 0s - loss: 2.5086e-08
3266 Epoch 1614/5000
3267 - 0s - loss: 4.4459e-08
3268 Epoch 1615/5000
3269 - 0s - loss: 2.7481e-08
3270 Epoch 1616/5000
3271 - 0s - loss: 4.3980e-08
3272 Epoch 1617/5000
3273 - 0s - loss: 2.0888e-08
3274 Epoch 1618/5000
3275 - 0s - loss: 5.0789e-08
3276 Epoch 1619/5000
3277 - 0s - loss: 5.0997e-08
3278 Epoch 1620/5000
3279 - 0s - loss: 3.5086e-08
3280 Epoch 1621/5000
3281 - 0s - loss: 2.5023e-08
3282 Epoch 1622/5000
3283 - 0s - loss: 3.1007e-08
3284 Epoch 1623/5000
3285 - 0s - loss: 2.9757e-08
3286 Epoch 1624/5000
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3287 - 0s - loss: 4.6500e-08
3288 Epoch 1625/5000
3289 - 0s - loss: 5.5090e-08
3290 Epoch 1626/5000
3291 - 0s - loss: 3.7399e-08
3292 Epoch 1627/5000
3293 - 0s - loss: 1.8286e-08
3294 Epoch 1628/5000
3295 - 0s - loss: 5.1370e-08
3296 Epoch 1629/5000
3297 - 0s - loss: 1.7276e-08
3298 Epoch 1630/5000
3299 - 0s - loss: 4.4874e-08
3300 Epoch 1631/5000
3301 - 0s - loss: 4.1645e-08
3302 Epoch 1632/5000
3303 - 0s - loss: 2.9014e-08
3304 Epoch 1633/5000
3305 - 0s - loss: 4.8366e-08
3306 Epoch 1634/5000
3307 - 0s - loss: 3.0419e-08
3308 Epoch 1635/5000
3309 - 0s - loss: 2.9602e-08
3310 Epoch 1636/5000
3311 - 0s - loss: 3.5141e-08
3312 Epoch 1637/5000
3313 - 0s - loss: 3.6423e-08
3314 Epoch 1638/5000
3315 - 0s - loss: 4.8221e-08
3316 Epoch 1639/5000
3317 - 0s - loss: 3.3363e-08
3318 Epoch 1640/5000
3319 - 0s - loss: 4.9228e-08
3320 Epoch 1641/5000
3321 - 0s - loss: 1.3817e-08
3322 Epoch 1642/5000
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3323 - 0s - loss: 5.9451e-08
3324 Epoch 1643/5000
3325 - 0s - loss: 3.0100e-08
3326 Epoch 1644/5000
3327 - 0s - loss: 1.9877e-08
3328 Epoch 1645/5000
3329 - 0s - loss: 5.1130e-08
3330 Epoch 1646/5000
3331 - 0s - loss: 1.5353e-08
3332 Epoch 1647/5000
3333 - 0s - loss: 5.7259e-08
3334 Epoch 1648/5000
3335 - 0s - loss: 4.8492e-08
3336 Epoch 1649/5000
3337 - 0s - loss: 1.0115e-08
3338 Epoch 1650/5000
3339 - 0s - loss: 5.0780e-08
3340 Epoch 1651/5000
3341 - 0s - loss: 2.4100e-08
3342 Epoch 1652/5000
3343 - 0s - loss: 4.2605e-08
3344 Epoch 1653/5000
3345 - 0s - loss: 3.3736e-08
3346 Epoch 1654/5000
3347 - 0s - loss: 3.3350e-08
3348 Epoch 1655/5000
3349 - 0s - loss: 3.4651e-08
3350 Epoch 1656/5000
3351 - 0s - loss: 3.3408e-08
3352 Epoch 1657/5000
3353 - 0s - loss: 4.3994e-08
3354 Epoch 1658/5000
3355 - 0s - loss: 2.6027e-08
3356 Epoch 1659/5000
3357 - 0s - loss: 5.5444e-08
3358 Epoch 1660/5000
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3359 - 0s - loss: 2.6839e-08
3360 Epoch 1661/5000
3361 - 0s - loss: 4.6657e-08
3362 Epoch 1662/5000
3363 - 0s - loss: 6.0152e-08
3364 Epoch 1663/5000
3365 - 0s - loss: 3.7354e-08
3366 Epoch 1664/5000
3367 - 0s - loss: 7.6010e-09
3368 Epoch 1665/5000
3369 - 0s - loss: 3.8736e-08
3370 Epoch 1666/5000
3371 - 0s - loss: 5.3915e-08
3372 Epoch 1667/5000
3373 - 0s - loss: 6.8841e-09
3374 Epoch 1668/5000
3375 - 0s - loss: 4.1058e-08
3376 Epoch 1669/5000
3377 - 0s - loss: 4.1924e-08
3378 Epoch 1670/5000
3379 - 0s - loss: 7.6794e-08
3380 Epoch 1671/5000
3381 - 0s - loss: 6.6080e-09
3382 Epoch 1672/5000
3383 - 0s - loss: 3.0063e-08
3384 Epoch 1673/5000
3385 - 0s - loss: 3.6949e-08
3386 Epoch 1674/5000
3387 - 0s - loss: 2.6523e-08
3388 Epoch 1675/5000
3389 - 0s - loss: 4.7742e-08
3390 Epoch 1676/5000
3391 - 0s - loss: 1.7821e-08
3392 Epoch 1677/5000
3393 - 0s - loss: 4.7277e-08
3394 Epoch 1678/5000
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3395 - 0s - loss: 4.1140e-08
3396 Epoch 1679/5000
3397 - 0s - loss: 3.0120e-08
3398 Epoch 1680/5000
3399 - 0s - loss: 2.2049e-08
3400 Epoch 1681/5000
3401 - 0s - loss: 3.9549e-08
3402 Epoch 1682/5000
3403 - 0s - loss: 4.8950e-08
3404 Epoch 1683/5000
3405 - 0s - loss: 2.5753e-08
3406 Epoch 1684/5000
3407 - 0s - loss: 5.2059e-08
3408 Epoch 1685/5000
3409 - 0s - loss: 4.5709e-08
3410 Epoch 1686/5000
3411 - 0s - loss: 2.1221e-08
3412 Epoch 1687/5000
3413 - 0s - loss: 2.6864e-08
3414 Epoch 1688/5000
3415 - 0s - loss: 5.5736e-08
3416 Epoch 1689/5000
3417 - 0s - loss: 2.9846e-08
3418 Epoch 1690/5000
3419 - 0s - loss: 2.5156e-08
3420 Epoch 1691/5000
3421 - 0s - loss: 3.9908e-08
3422 Epoch 1692/5000
3423 - 0s - loss: 2.2248e-08
3424 Epoch 1693/5000
3425 - 0s - loss: 2.3768e-08
3426 Epoch 1694/5000
3427 - 0s - loss: 6.0618e-08
3428 Epoch 1695/5000
3429 - 0s - loss: 2.0399e-08
3430 Epoch 1696/5000
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3431 - 0s - loss: 4.1557e-08
3432 Epoch 1697/5000
3433 - 0s - loss: 7.7231e-08
3434 Epoch 1698/5000
3435 - 0s - loss: 1.3826e-08
3436 Epoch 1699/5000
3437 - 0s - loss: 2.4638e-08
3438 Epoch 1700/5000
3439 - 0s - loss: 2.4525e-08
3440 Epoch 1701/5000
3441 - 0s - loss: 4.1980e-08
3442 Epoch 1702/5000
3443 - 0s - loss: 2.0860e-08
3444 Epoch 1703/5000
3445 - 0s - loss: 3.8235e-08
3446 Epoch 1704/5000
3447 - 0s - loss: 9.2012e-08
3448 Epoch 1705/5000
3449 - 0s - loss: 3.5950e-09
3450 Epoch 1706/5000
3451 - 0s - loss: 1.7007e-08
3452 Epoch 1707/5000
3453 - 0s - loss: 4.9809e-08
3454 Epoch 1708/5000
3455 - 0s - loss: 2.2020e-08
3456 Epoch 1709/5000
3457 - 0s - loss: 3.9091e-08
3458 Epoch 1710/5000
3459 - 0s - loss: 3.4407e-08
3460 Epoch 1711/5000
3461 - 0s - loss: 4.1440e-08
3462 Epoch 1712/5000
3463 - 0s - loss: 6.2938e-08
3464 Epoch 1713/5000
3465 - 0s - loss: 6.5891e-09
3466 Epoch 1714/5000
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3467 - 0s - loss: 8.4095e-08
3468 Epoch 1715/5000
3469 - 0s - loss: 1.2064e-08
3470 Epoch 1716/5000
3471 - 0s - loss: 2.2554e-08
3472 Epoch 1717/5000
3473 - 0s - loss: 3.5874e-08
3474 Epoch 1718/5000
3475 - 0s - loss: 2.2225e-08
3476 Epoch 1719/5000
3477 - 0s - loss: 5.1736e-08
3478 Epoch 1720/5000
3479 - 0s - loss: 2.5136e-08
3480 Epoch 1721/5000
3481 - 0s - loss: 2.2435e-08
3482 Epoch 1722/5000
3483 - 0s - loss: 3.4788e-08
3484 Epoch 1723/5000
3485 - 0s - loss: 5.5705e-08
3486 Epoch 1724/5000
3487 - 0s - loss: 1.2610e-08
3488 Epoch 1725/5000
3489 - 0s - loss: 8.8608e-08
3490 Epoch 1726/5000
3491 - 0s - loss: 2.4091e-09
3492 Epoch 1727/5000
3493 - 0s - loss: 2.7227e-08
3494 Epoch 1728/5000
3495 - 0s - loss: 4.1682e-08
3496 Epoch 1729/5000
3497 - 0s - loss: 2.3516e-08
3498 Epoch 1730/5000
3499 - 0s - loss: 3.4790e-08
3500 Epoch 1731/5000
3501 - 0s - loss: 3.0541e-08
3502 Epoch 1732/5000
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3503 - 0s - loss: 3.3924e-08
3504 Epoch 1733/5000
3505 - 0s - loss: 5.2555e-08
3506 Epoch 1734/5000
3507 - 0s - loss: 1.2010e-08
3508 Epoch 1735/5000
3509 - 0s - loss: 3.4511e-08
3510 Epoch 1736/5000
3511 - 0s - loss: 4.3548e-08
3512 Epoch 1737/5000
3513 - 0s - loss: 2.3737e-08
3514 Epoch 1738/5000
3515 - 0s - loss: 4.6630e-08
3516 Epoch 1739/5000
3517 - 0s - loss: 2.8591e-08
3518 Epoch 1740/5000
3519 - 0s - loss: 1.8310e-08
3520 Epoch 1741/5000
3521 - 0s - loss: 3.9040e-08
3522 Epoch 1742/5000
3523 - 0s - loss: 4.0447e-08
3524 Epoch 1743/5000
3525 - 0s - loss: 3.1988e-08
3526 Epoch 1744/5000
3527 - 0s - loss: 2.9093e-08
3528 Epoch 1745/5000
3529 - 0s - loss: 4.6571e-08
3530 Epoch 1746/5000
3531 - 0s - loss: 1.9355e-08
3532 Epoch 1747/5000
3533 - 0s - loss: 8.1532e-08
3534 Epoch 1748/5000
3535 - 0s - loss: 2.5211e-09
3536 Epoch 1749/5000
3537 - 0s - loss: 3.2438e-08
3538 Epoch 1750/5000
```

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3539 - 0s - loss: 3.2627e-08
3540 Epoch 1751/5000
3541 - 0s - loss: 4.3603e-08
3542 Epoch 1752/5000
3543 - 0s - loss: 2.2420e-08
3544 Epoch 1753/5000
3545 - 0s - loss: 4.6608e-08
3546 Epoch 1754/5000
3547 - 0s - loss: 3.6180e-08
3548 Epoch 1755/5000
3549 - 0s - loss: 1.9842e-08
3550 Epoch 1756/5000
3551 - 0s - loss: 3.2199e-08
3552 Epoch 1757/5000
3553 - 0s - loss: 2.2026e-08
3554 Epoch 1758/5000
3555 - 0s - loss: 4.4127e-08
3556 Epoch 1759/5000
3557 - 0s - loss: 4.0243e-08
3558 Epoch 1760/5000
3559 - 0s - loss: 2.3079e-08
3560 Epoch 1761/5000
3561 - 0s - loss: 3.8048e-08
3562 Epoch 1762/5000
3563 - 0s - loss: 2.2198e-08
3564 Epoch 1763/5000
3565 - 0s - loss: 4.9232e-08
3566 Epoch 1764/5000
3567 - 0s - loss: 2.1440e-08
3568 Epoch 1765/5000
3569 - 0s - loss: 2.8389e-08
3570 Epoch 1766/5000
3571 - 0s - loss: 5.3405e-08
3572 Epoch 1767/5000
3573 - 0s - loss: 2.4055e-08
3574 Epoch 1768/5000
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3575 - 0s - loss: 2.5733e-08
3576 Epoch 1769/5000
3577 - 0s - loss: 3.4026e-08
3578 Epoch 1770/5000
3579 - 0s - loss: 4.7007e-08
3580 Epoch 1771/5000
3581 - 0s - loss: 2.2157e-08
3582 Epoch 1772/5000
3583 - 0s - loss: 3.1539e-08
3584 Epoch 1773/5000
3585 - 0s - loss: 4.8896e-08
3586 Epoch 1774/5000
3587 - 0s - loss: 2.0538e-08
3588 Epoch 1775/5000
3589 - 0s - loss: 2.2508e-08
3590 Epoch 1776/5000
3591 - 0s - loss: 5.8025e-08
3592 Epoch 1777/5000
3593 - 0s - loss: 7.3133e-09
3594 Epoch 1778/5000
3595 - 0s - loss: 3.1808e-08
3596 Epoch 1779/5000
3597 - 0s - loss: 7.9942e-08
3598 Epoch 1780/5000
3599 - 0s - loss: 4.5115e-09
3600 Epoch 1781/5000
3601 - 0s - loss: 4.7331e-08
3602 Epoch 1782/5000
3603 - 0s - loss: 7.2146e-09
3604 Epoch 1783/5000
3605 - 0s - loss: 3.8586e-08
3606 Epoch 1784/5000
3607 - 0s - loss: 3.3612e-08
3608 Epoch 1785/5000
3609 - 0s - loss: 2.9705e-08
3610 Epoch 1786/5000
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3611 - 0s - loss: 3.7953e-08
3612 Epoch 1787/5000
3613 - 0s - loss: 2.9170e-08
3614 Epoch 1788/5000
3615 - 0s - loss: 3.3255e-08
3616 Epoch 1789/5000
3617 - 0s - loss: 3.7352e-08
3618 Epoch 1790/5000
3619 - 0s - loss: 2.0997e-08
3620 Epoch 1791/5000
3621 - 0s - loss: 1.0776e-07
3622 Epoch 1792/5000
3623 - 0s - loss: 3.2031e-09
3624 Epoch 1793/5000
3625 - 0s - loss: 9.5027e-09
3626 Epoch 1794/5000
3627 - 0s - loss: 1.8079e-08
3628 Epoch 1795/5000
3629 - 0s - loss: 5.0167e-08
3630 Epoch 1796/5000
3631 - 0s - loss: 2.2955e-08
3632 Epoch 1797/5000
3633 - 0s - loss: 2.8453e-08
3634 Epoch 1798/5000
3635 - 0s - loss: 2.6139e-08
3636 Epoch 1799/5000
3637 - 0s - loss: 4.8600e-08
3638 Epoch 1800/5000
3639 - 0s - loss: 1.5000e-08
3640 Epoch 1801/5000
3641 - 0s - loss: 5.5015e-08
3642 Epoch 1802/5000
3643 - 0s - loss: 1.0963e-08
3644 Epoch 1803/5000
3645 - 0s - loss: 4.3012e-08
3646 Epoch 1804/5000
```

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3647 - 0s - loss: 5.0528e-08
3648 Epoch 1805/5000
3649 - 0s - loss: 8.2924e-09
3650 Epoch 1806/5000
3651 - 0s - loss: 3.5898e-08
3652 Epoch 1807/5000
3653 - 0s - loss: 3.6670e-08
3654 Epoch 1808/5000
3655 - 0s - loss: 2.8291e-08
3656 Epoch 1809/5000
3657 - 0s - loss: 4.1673e-08
3658 Epoch 1810/5000
3659 - 0s - loss: 1.9532e-08
3660 Epoch 1811/5000
3661 - 0s - loss: 2.0022e-08
3662 Epoch 1812/5000
3663 - 0s - loss: 6.7085e-08
3664 Epoch 1813/5000
3665 - 0s - loss: 6.0707e-09
3666 Epoch 1814/5000
3667 - 0s - loss: 3.6146e-08
3668 Epoch 1815/5000
3669 - 0s - loss: 5.6741e-08
3670 Epoch 1816/5000
3671 - 0s - loss: 8.1980e-09
3672 Epoch 1817/5000
3673 - 0s - loss: 4.6648e-08
3674 Epoch 1818/5000
3675 - 0s - loss: 1.9523e-08
3676 Epoch 1819/5000
3677 - 0s - loss: 3.2807e-08
3678 Epoch 1820/5000
3679 - 0s - loss: 3.0981e-08
3680 Epoch 1821/5000
3681 - 0s - loss: 3.5092e-08
3682 Epoch 1822/5000
```

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3683 - 0s - loss: 3.1193e-08
3684 Epoch 1823/5000
3685 - 0s - loss: 3.7463e-08
3686 Epoch 1824/5000
3687 - 0s - loss: 5.6846e-08
3688 Epoch 1825/5000
3689 - 0s - loss: 1.3709e-08
3690 Epoch 1826/5000
3691 - 0s - loss: 4.4624e-08
3692 Epoch 1827/5000
3693 - 0s - loss: 7.7894e-09
3694 Epoch 1828/5000
3695 - 0s - loss: 4.5082e-08
3696 Epoch 1829/5000
3697 - 0s - loss: 4.3845e-08
3698 Epoch 1830/5000
3699 - 0s - loss: 1.5114e-08
3700 Epoch 1831/5000
3701 - 0s - loss: 5.2194e-08
3702 Epoch 1832/5000
3703 - 0s - loss: 1.0446e-08
3704 Epoch 1833/5000
3705 - 0s - loss: 2.9759e-08
3706 Epoch 1834/5000
3707 - 0s - loss: 2.7406e-08
3708 Epoch 1835/5000
3709 - 0s - loss: 4.5674e-08
3710 Epoch 1836/5000
3711 - 0s - loss: 3.1901e-08
3712 Epoch 1837/5000
3713 - 0s - loss: 4.2838e-08
3714 Epoch 1838/5000
3715 - 0s - loss: 1.2889e-08
3716 Epoch 1839/5000
3717 - 0s - loss: 2.6815e-08
3718 Epoch 1840/5000
```