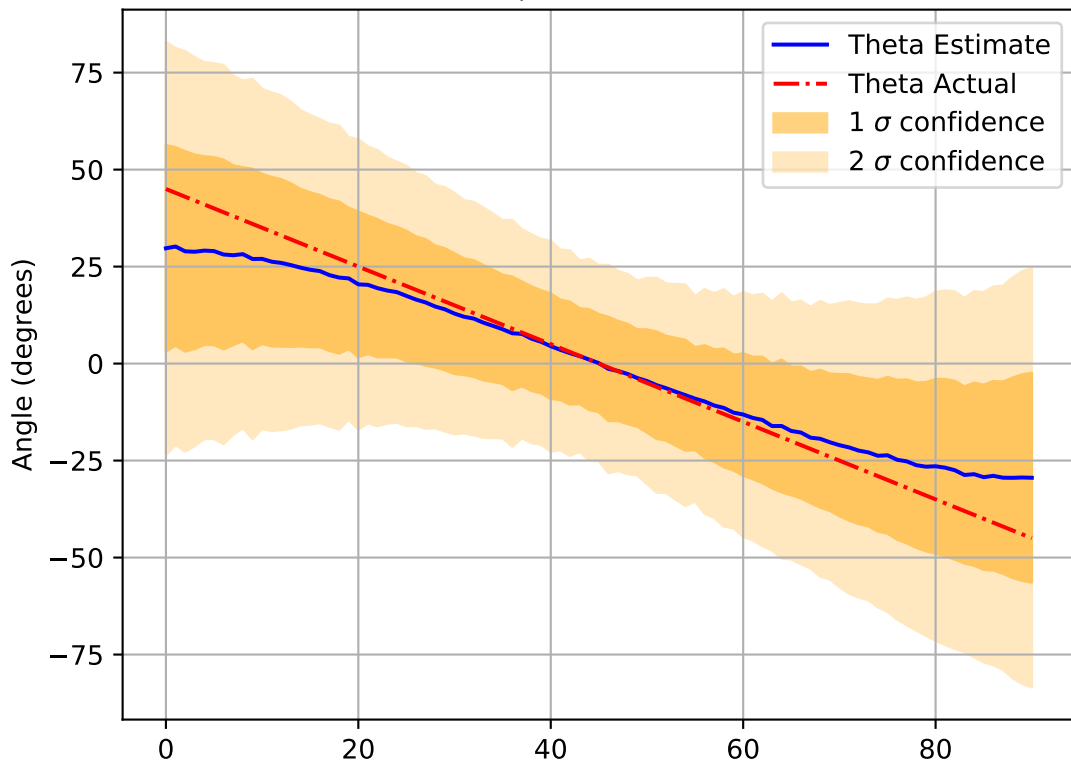


E = 1000 keV, N = 10000 particles



Pinhole radius: 1.500000 mm  
Gap between window and detector: 31.500000 mm  
Window thickness: 1000.000000 um  
Shielding foil thickness: 10.000000 um

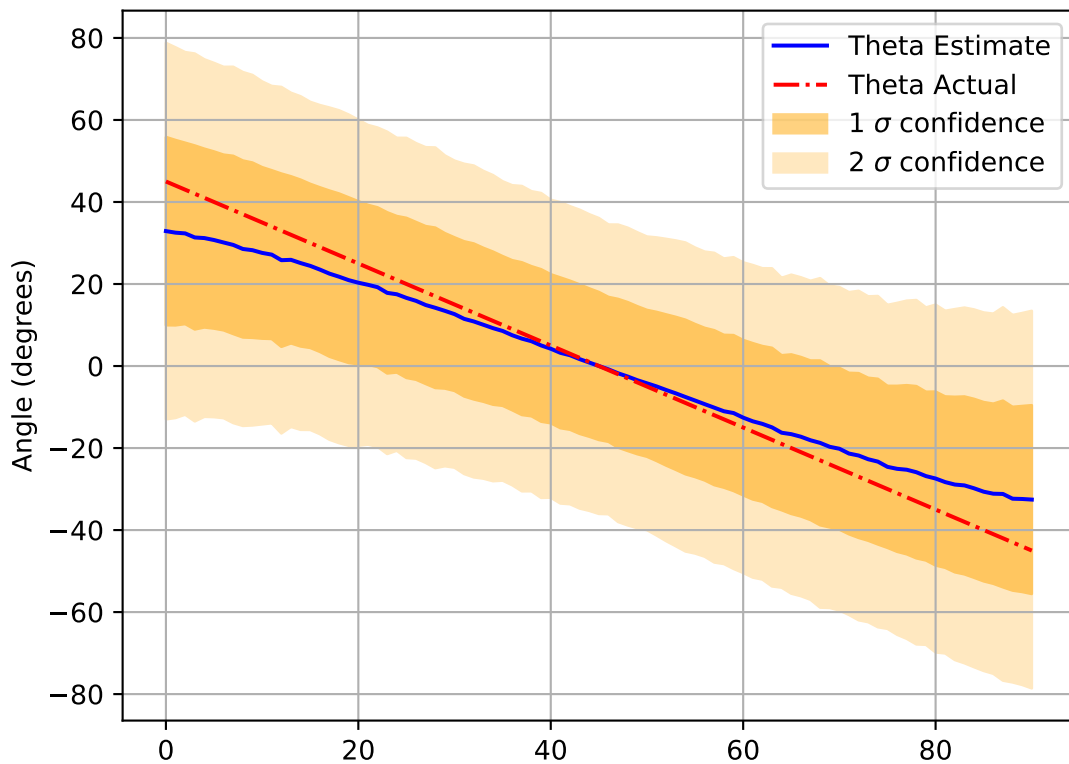
-----  
Theta Angle (degrees), Standard deviation (degrees):

0	26.6007
1	25.5517
2	25.7862
3	25.0261
4	24.2643
5	24.1829
6	24.4072
7	23.1298
8	22.3637
9	23.2067
10	21.8898
11	21.7971
12	21.5273
13	21.0321
14	20.2695
15	19.9248
16	19.5631
17	19.5080
18	19.5574
19	18.1840
20	18.6967
21	17.8111
22	17.7736
23	17.1396
24	16.7864
25	16.7575
26	16.2594
27	16.2622
28	15.6538
29	15.7162
	...
61	15.7480
62	16.2435
63	16.0112
64	17.0694
65	16.5264
66	16.9662
67	16.8213
68	17.7314
69	17.6524
70	18.2737
71	18.8158
72	18.9097
73	19.0149
74	19.4921
75	20.1542
76	20.5608
77	21.0937
78	21.2847
79	21.7646
80	22.4734
81	22.8254
82	23.0160

83	22.7743
84	23.5610
85	23.8241
86	24.3814
87	24.7246
88	25.7890
89	26.5716
90	27.0059

Name: Theta\_std, Length: 91, dtype: float64

E = 3000 keV, N = 10000 particles



Pinhole radius: 1.500000 mm  
Gap between window and detector: 31.500000 mm  
Window thickness: 1000.000000 um  
Shielding foil thickness: 10.000000 um

-----  
Theta Angle (degrees), Standard deviation (degrees):

0 22.9443

1 22.5881

2 22.0977

3 22.4172

4 21.7842

5 21.5865

6 21.4086

7 21.7126

8 21.5635

9 21.3574

10 20.8980

11 20.5565

12 21.1174

13 20.3605

14 20.3261

15 19.9934

16 20.0529

17 20.2449

18 20.2818

19 20.1841

20 19.8668

21 19.4793

22 19.4581

23 19.6409

24 19.0672

25 19.5047

26 19.2199

27 19.2344

28 19.5399

29 18.9357

...

61 19.0464

62 18.9697

63 19.3849

64 18.8819

65 19.4378

66 19.4289

67 19.4369

68 20.0784

69 19.6391

70 19.7059

71 19.6708

72 20.0745

73 19.8546

74 20.1830

75 19.7399

76 20.2209

77 20.6060

78 20.9841

79 20.5585

80 21.1941

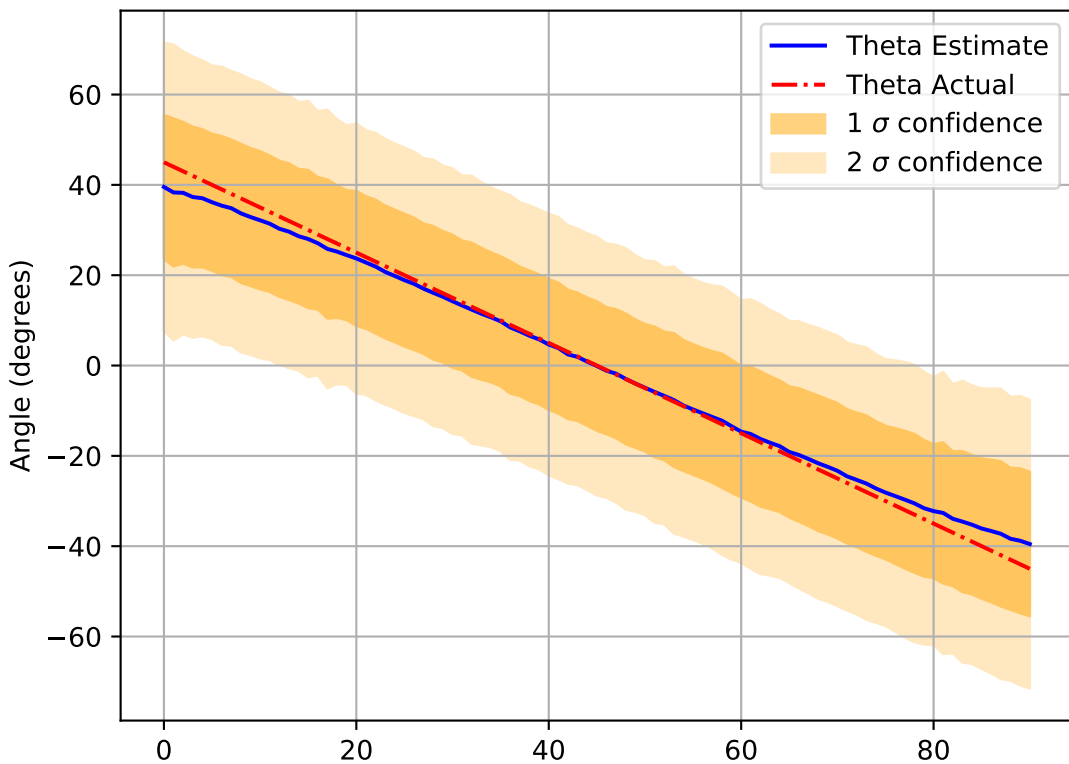
81 20.8796

82 21.3819

83	21.6740
84	21.7997
85	21.8462
86	21.9449
87	22.7521
88	22.3892
89	22.6641
90	23.0086

Name: Theta\_std, Length: 91, dtype: float64

E = 5000 keV, N = 10000 particles



Pinhole radius: 1.500000 mm  
Gap between window and detector: 31.500000 mm  
Window thickness: 1000.000000 um  
Shielding foil thickness: 10.000000 um

-----  
Theta Angle (degrees), Standard deviation (degrees):

0	15.9468
1	16.3583
2	15.6576
3	15.5522
4	15.2503
5	15.1170
6	15.3726
7	15.1666
8	15.3704
9	15.2351
10	15.2648
11	15.0584
12	15.0334
13	15.0898
14	14.8486
15	15.2647
16	14.6069
17	15.3869
18	14.6435
19	14.3302
20	14.9274
21	14.6275
22	14.7779
23	14.6850
24	14.6435
25	14.6776
26	14.6135
27	14.4245
28	14.7333
29	14.5020
	...
61	14.9012
62	14.9436
63	14.6957
64	14.5612
65	14.4957
66	14.7655
67	14.8281
68	14.9742
69	14.9230
70	14.9679
71	14.8178
72	14.8815
73	15.0622
74	14.8495
75	14.7528
76	14.9938
77	15.2307
78	15.3332
79	15.0837
80	14.7998
81	15.5991
82	14.8705



83	15.5771
84	15.4021
85	15.5107
86	15.7529
87	16.0501
88	15.6832
89	16.0030
90	15.9702

Name: Theta\_std, Length: 91, dtype: float64