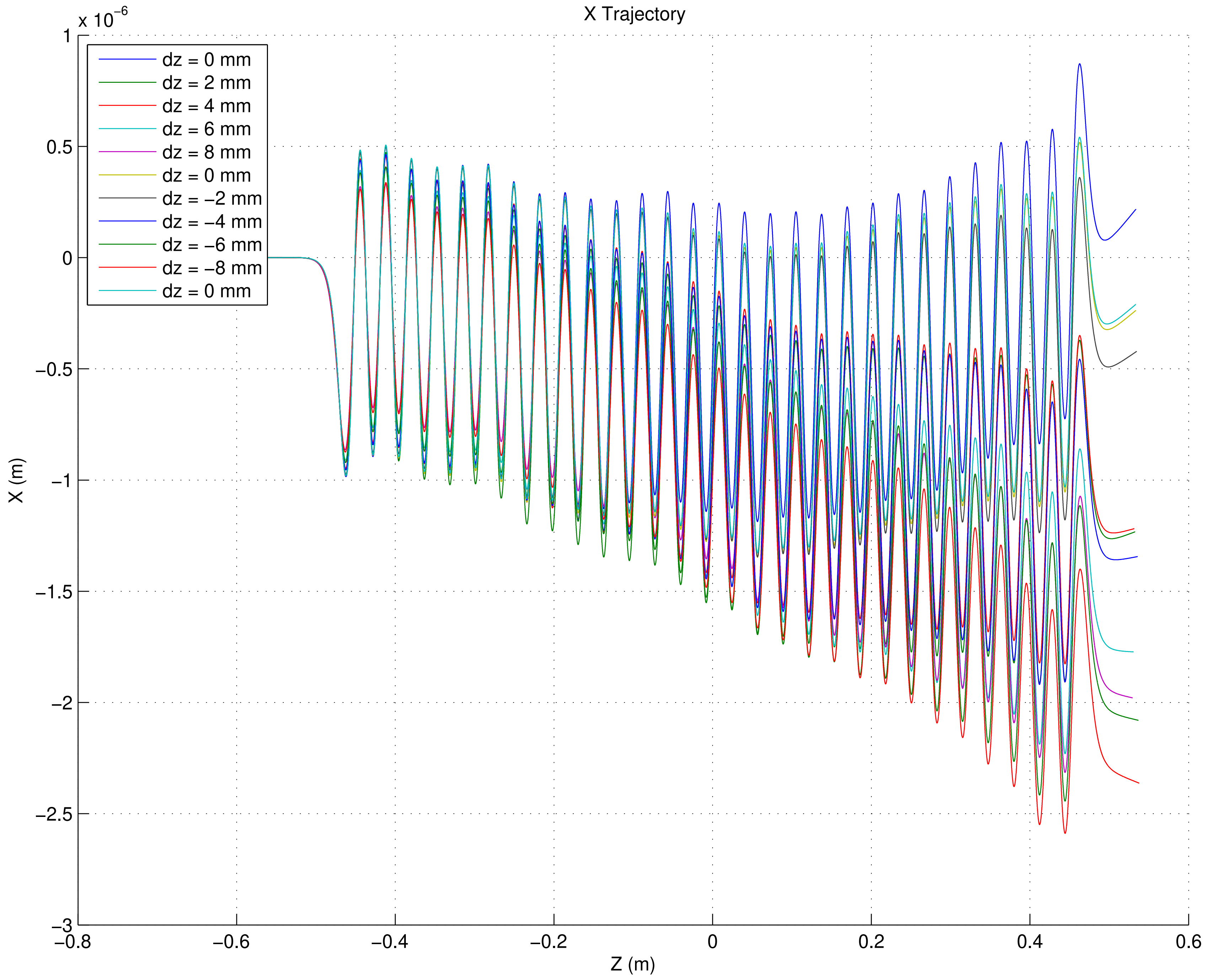
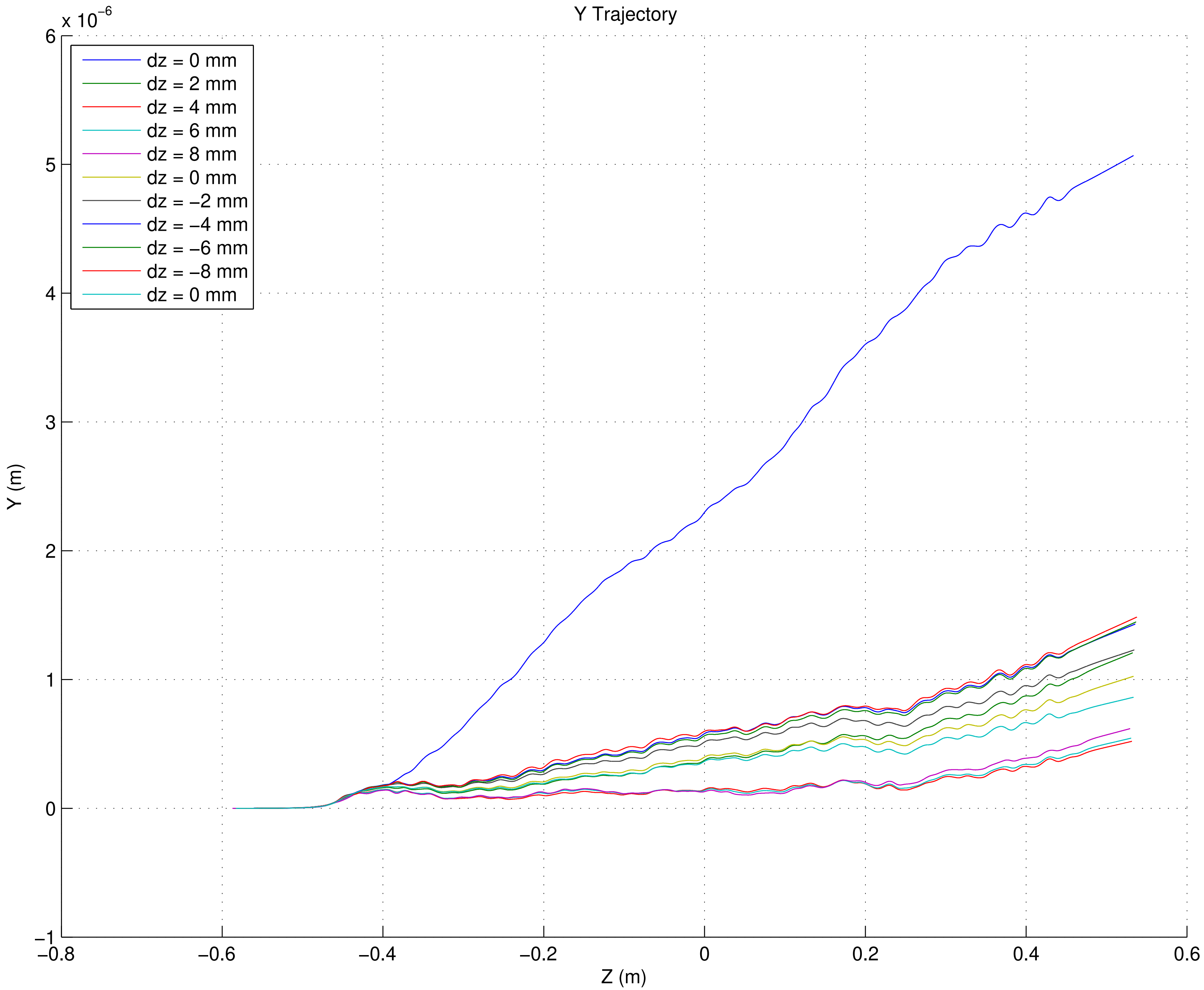
SLAC Magnetic Measurements
Undulator Analysis Comparison

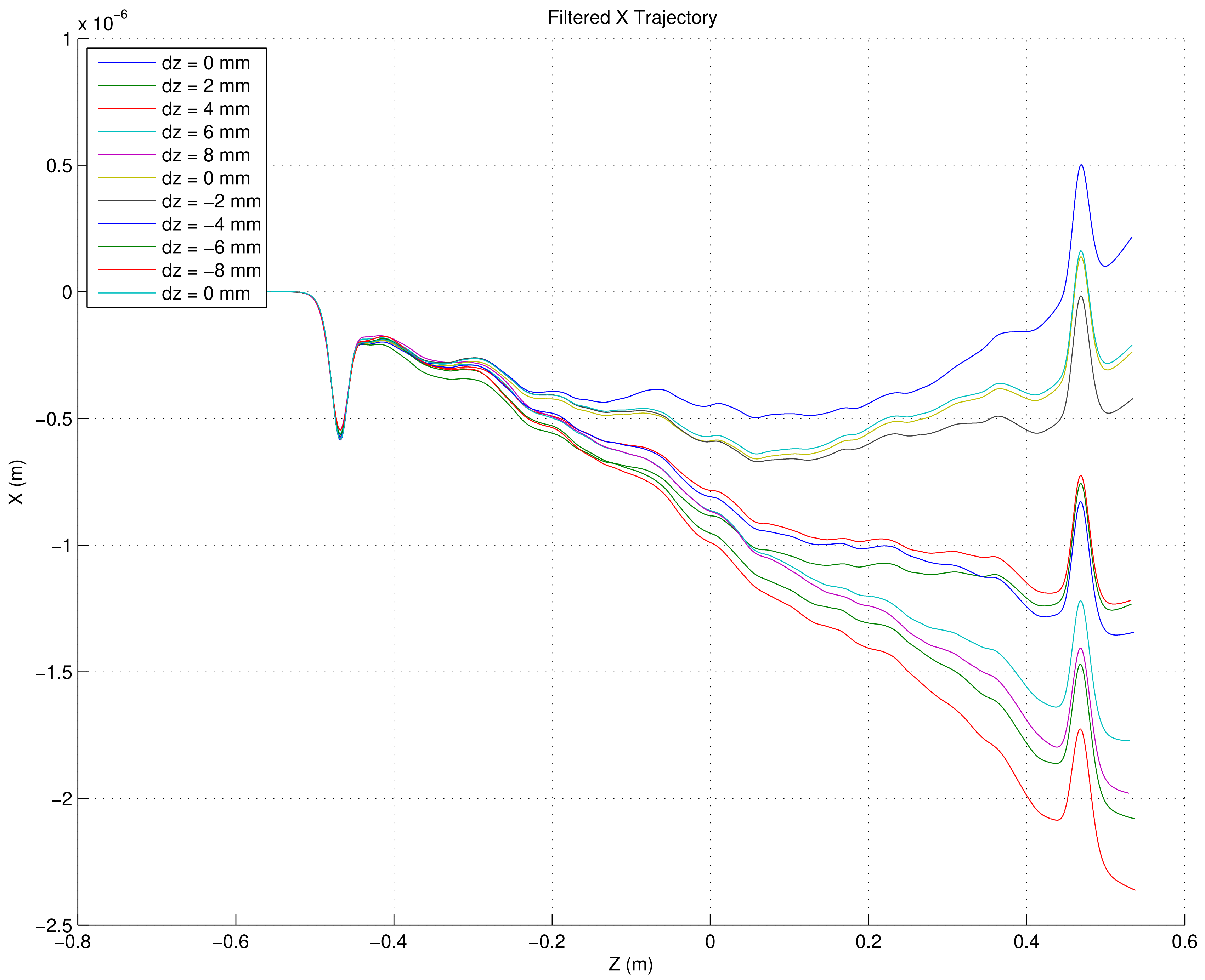
Title:
Run 189–200 Change K Test

Input Files:
1) V:\MET\MagServe\MagData\DELTA\Delta data\Run 189\epu_anal.mat
2) V:\MET\MagServe\MagData\DELTA\Delta data\Run 190\epu_anal.mat
3) V:\MET\MagServe\MagData\DELTA\Delta data\Run 192\epu_anal.mat
4) V:\MET\MagServe\MagData\DELTA\Delta data\Run 193\epu_anal.mat
5) V:\MET\MagServe\MagData\DELTA\Delta data\Run 194\epu_anal.mat
6) V:\MET\MagServe\MagData\DELTA\Delta data\Run 195\epu_anal.mat
7) V:\MET\MagServe\MagData\DELTA\Delta data\Run 196\epu_anal.mat
8) V:\MET\MagServe\MagData\DELTA\Delta data\Run 197\epu_anal.mat
9) V:\MET\MagServe\MagData\DELTA\Delta data\Run 198\epu_anal.mat
10) V:\MET\MagServe\MagData\DELTA\Delta data\Run 199\epu_anal.mat
11) V:\MET\MagServe\MagData\DELTA\Delta data\Run 200\epu_anal.mat

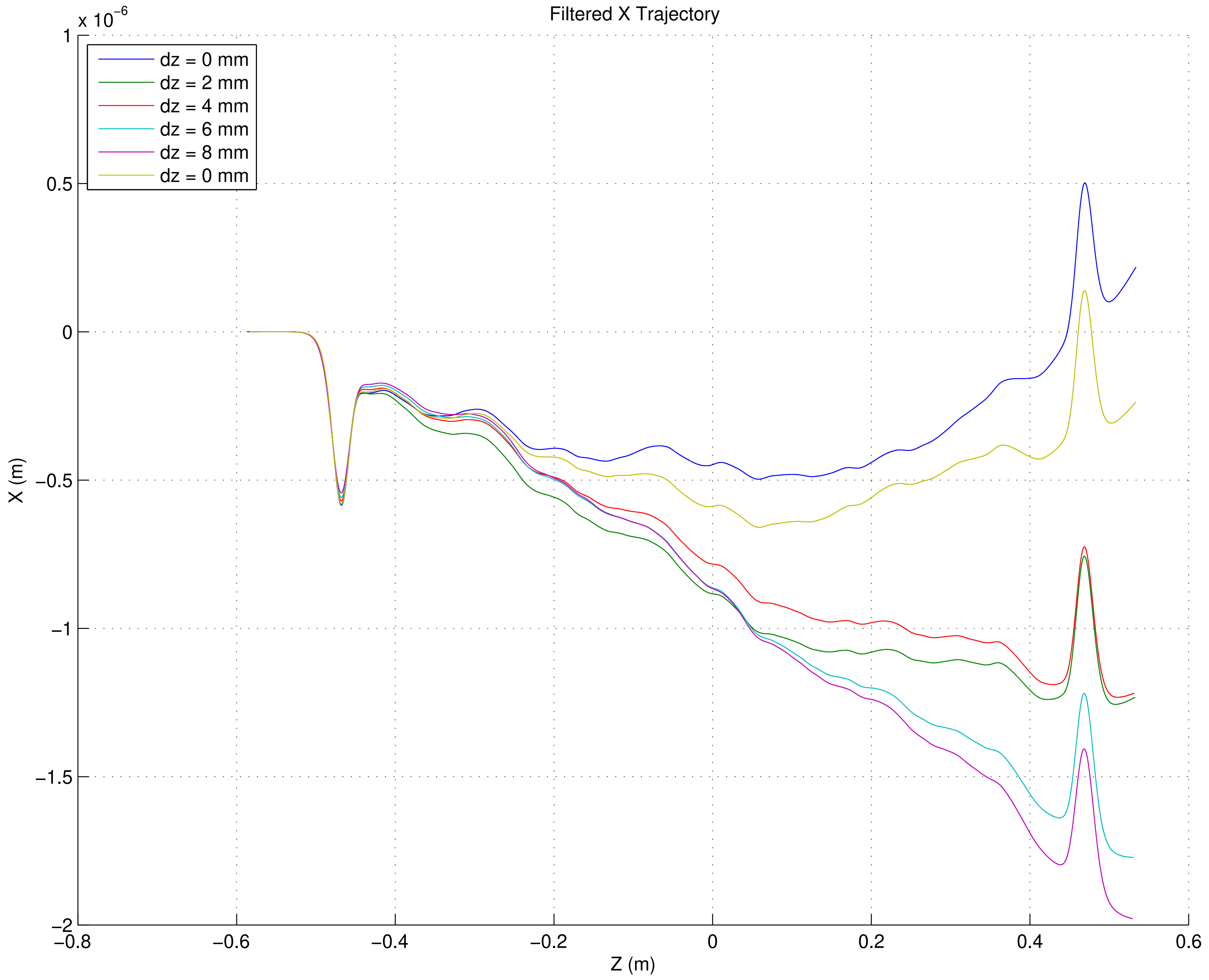

X Trajectory
x 10^−6
dz = 0 mm
dz = 2 mm
dz = 4 mm
dz = 6 mm
dz = 8 mm
dz = 0 mm
dz = −2 mm
dz = −4 mm
dz = −6 mm
dz = −8 mm
dz = 0 mm
X (m)
Z (m)
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6

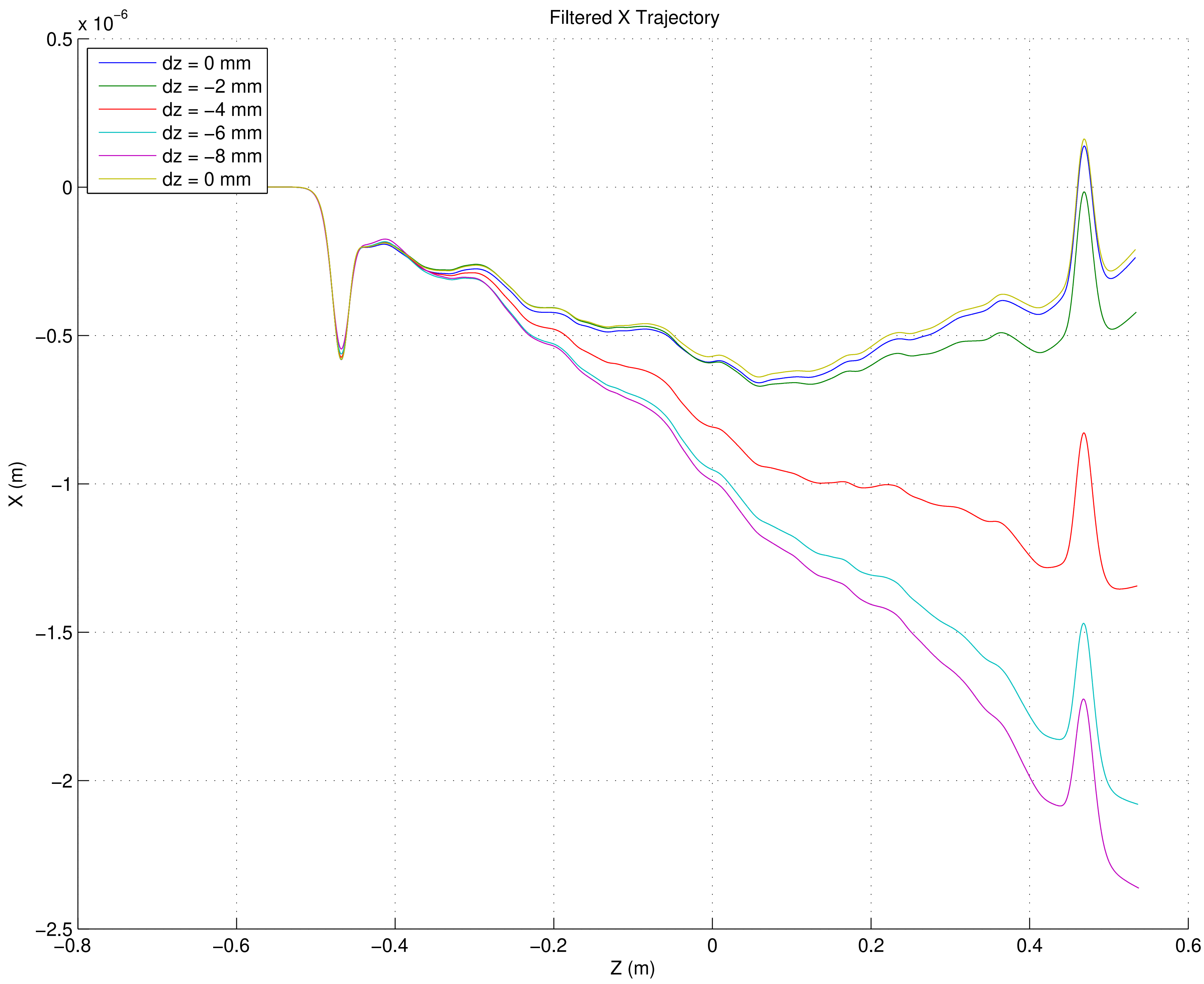


Y Trajectory
x 10^−6
6
5
4
3
2
1
0
−1
Y (m)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z (m)
dz = 0 mm
dz = 2 mm
dz = 4 mm
dz = 6 mm
dz = 8 mm
dz = 0 mm
dz = −2 mm
dz = −4 mm
dz = −6 mm
dz = −8 mm
dz = 0 mm

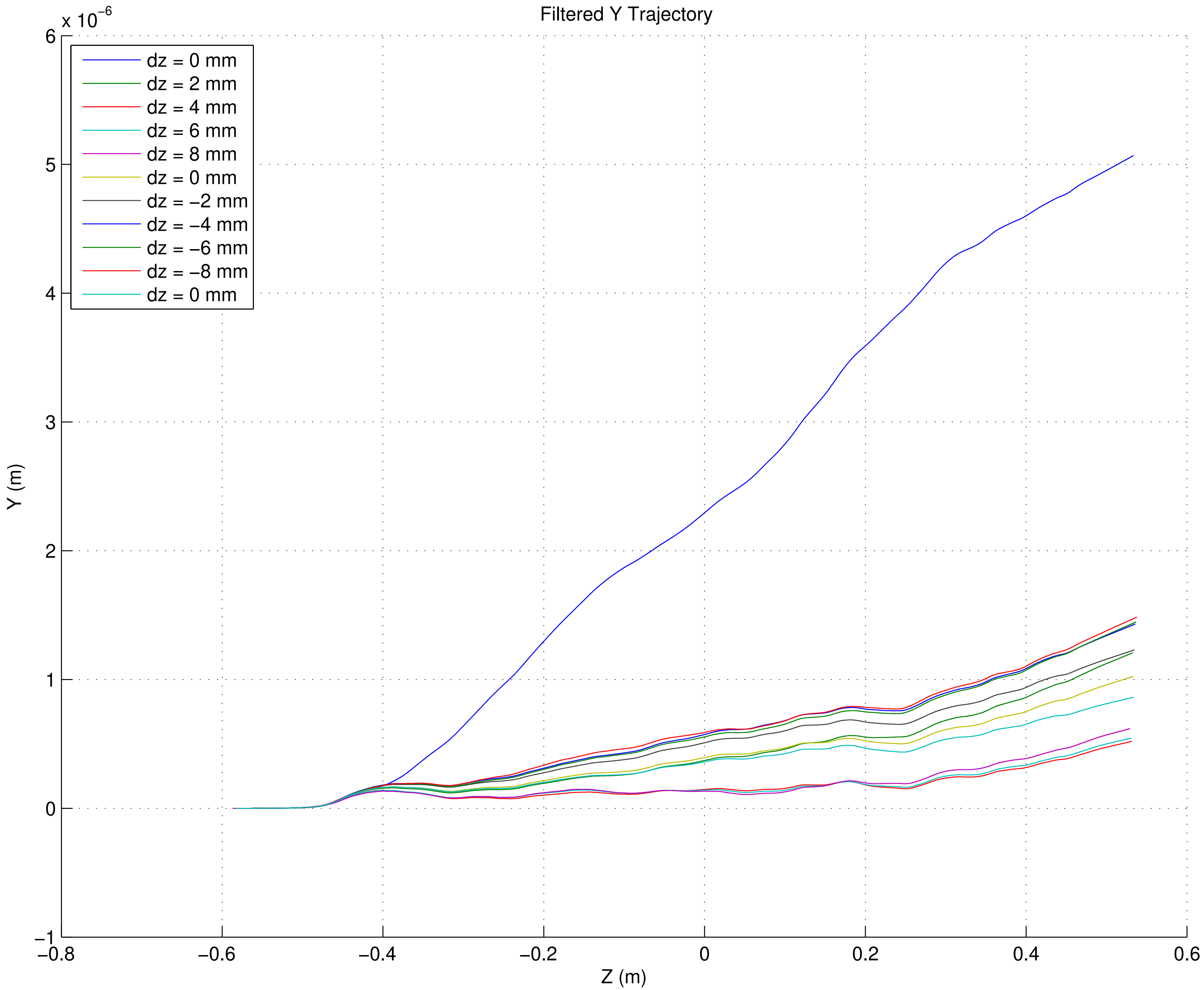


Filtered X Trajectory
x 10^−6
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
X (m)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z (m)
dz = 0 mm
dz = 2 mm
dz = 4 mm
dz = 6 mm
dz = 8 mm
dz = 0 mm
dz = −2 mm
dz = −4 mm
dz = −6 mm
dz = −8 mm
dz = 0 mm


Filtered X Trajectory
x 10^−6
1
0.5
0
−0.5
−1
−1.5
−2
X (m)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z (m)
dz = 0 mm
dz = 2 mm
dz = 4 mm
dz = 6 mm
dz = 8 mm
dz = 0 mm



Filtered X Trajectory
x 10^−6
0.5
0
−0.5
−1
−1.5
−2
−2.5
X (m)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z (m)
dz = 0 mm
dz = −2 mm
dz = −4 mm
dz = −6 mm
dz = −8 mm
dz = 0 mm



Filtered Y Trajectory
x 10^−6
dz = 0 mm
dz = 2 mm
dz = 4 mm
dz = 6 mm
dz = 8 mm
dz = 0 mm
dz = −2 mm
dz = −4 mm
dz = −6 mm
dz = −8 mm
dz = 0 mm
Y (m)
Z (m)
6
5
4
3
2
1
0
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6