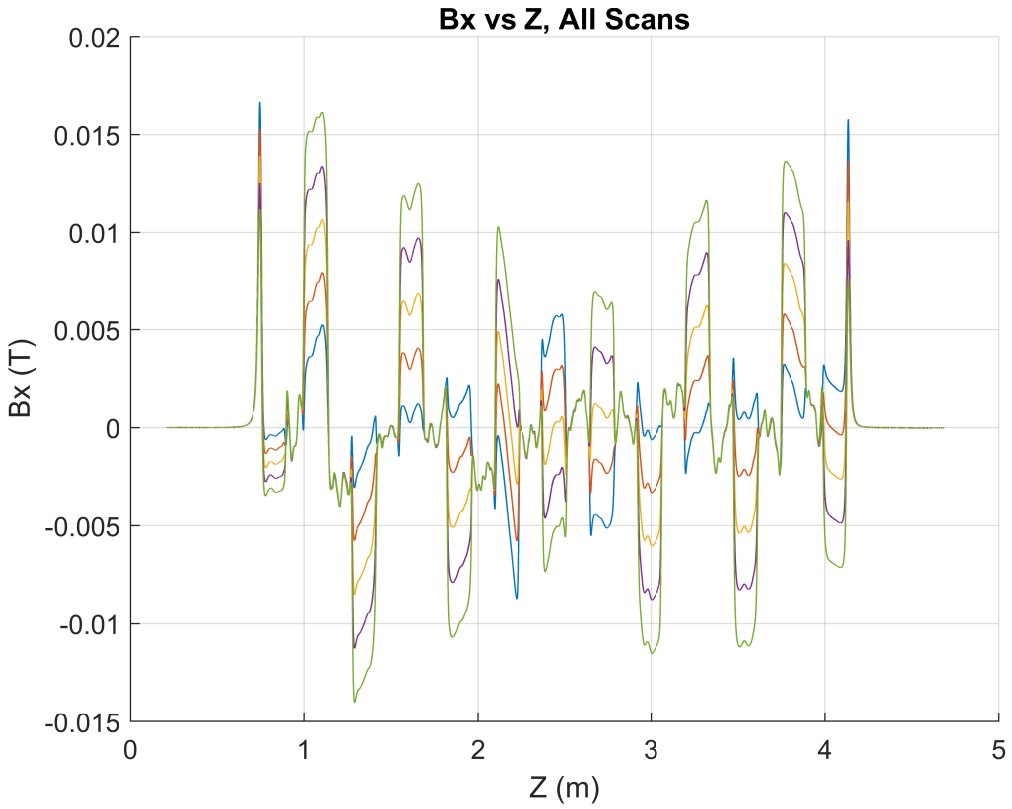
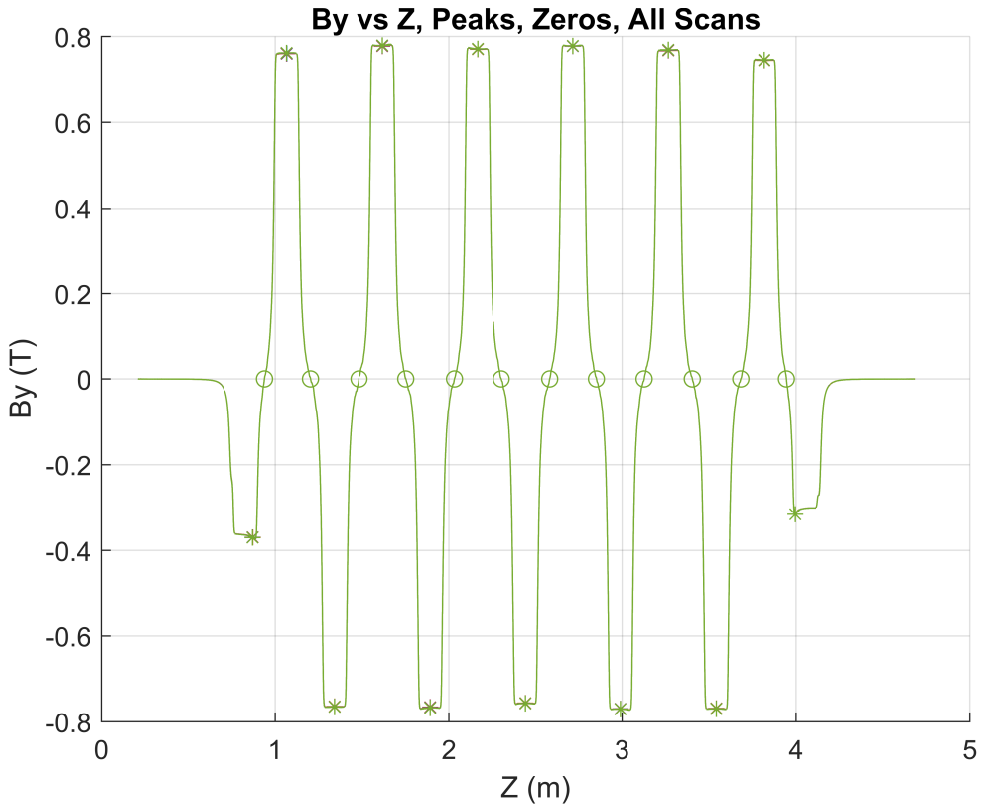
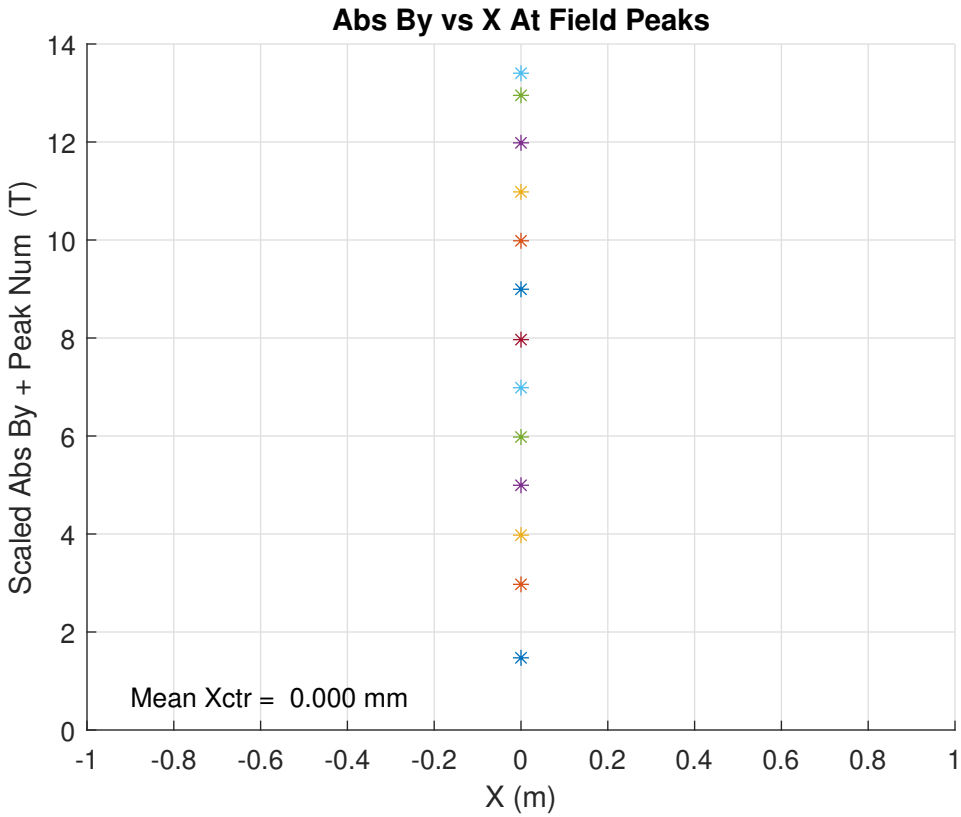
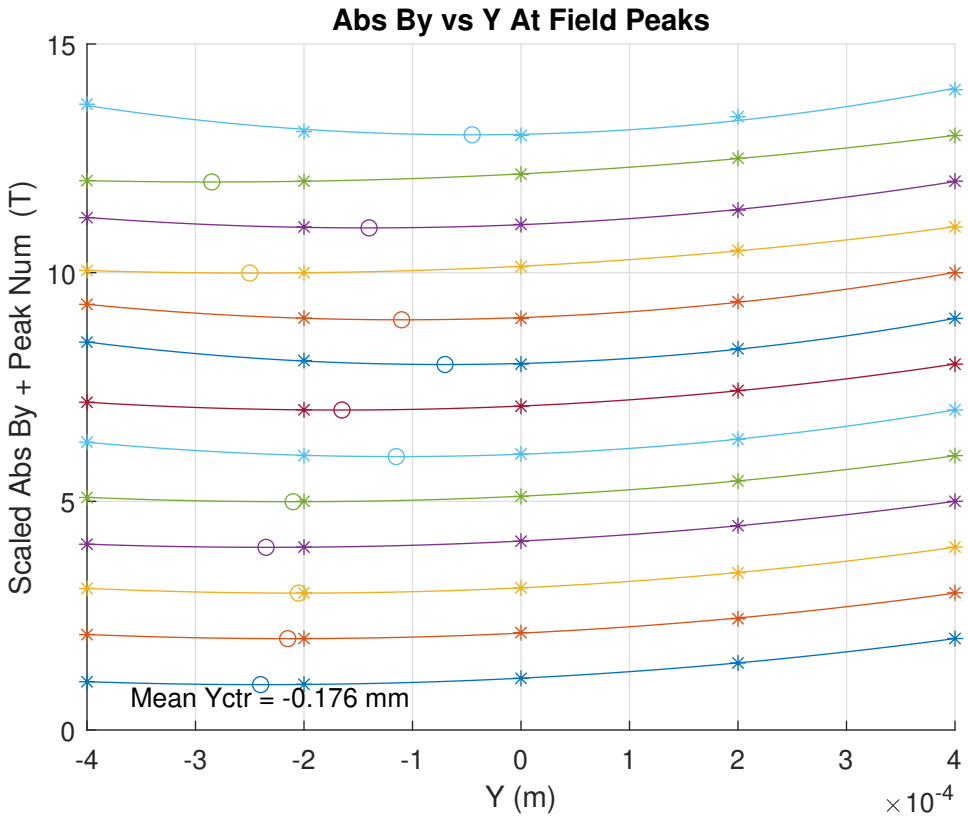
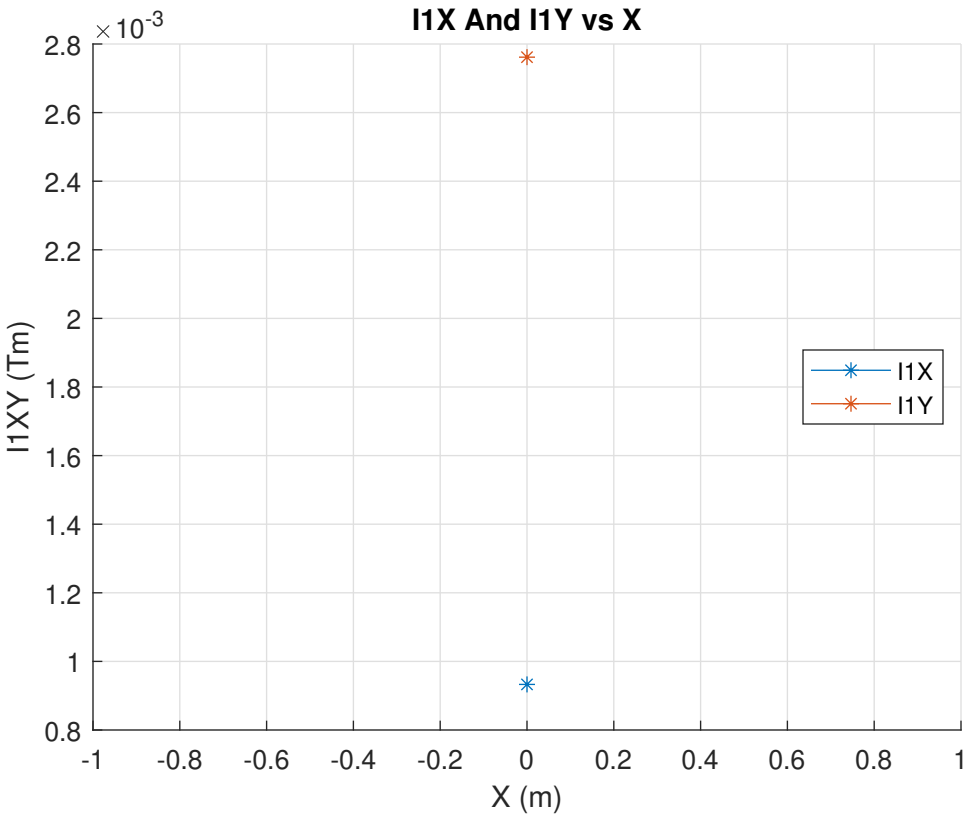
SLAC Magnetic Measurements#
Date: 06-18-2021#
Time: 16:38:40#

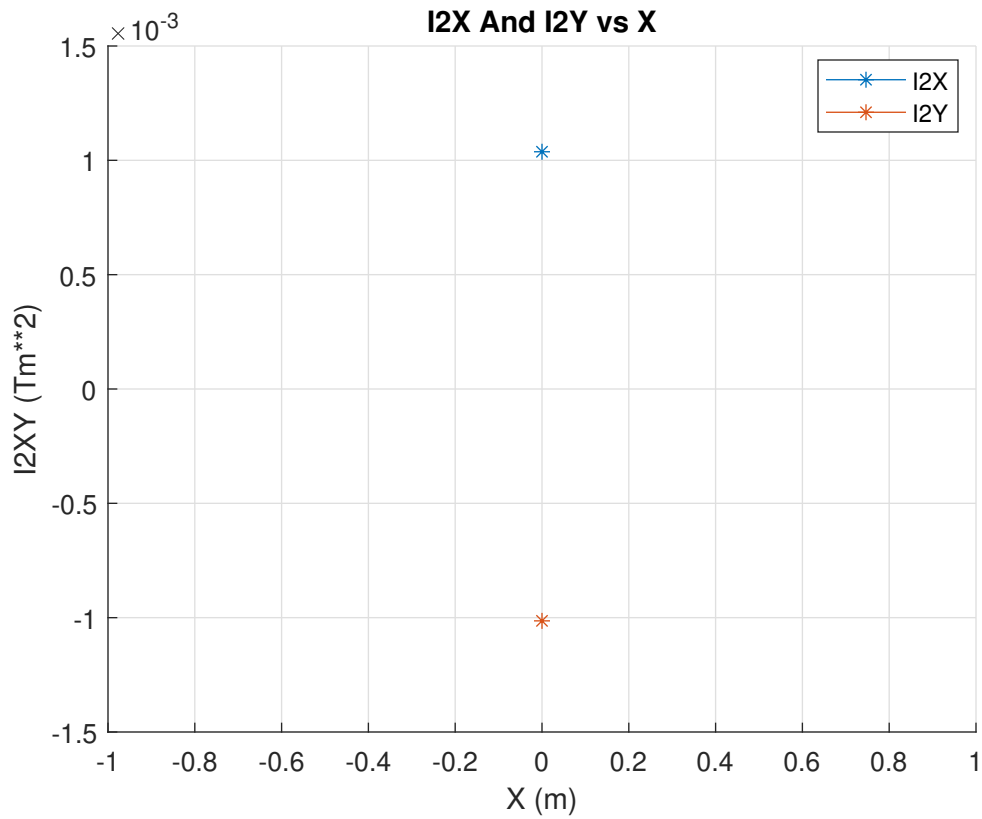

Bx vs Z, All Scans
Bx (T)
Z (m)
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
0
1
2
3
4
5

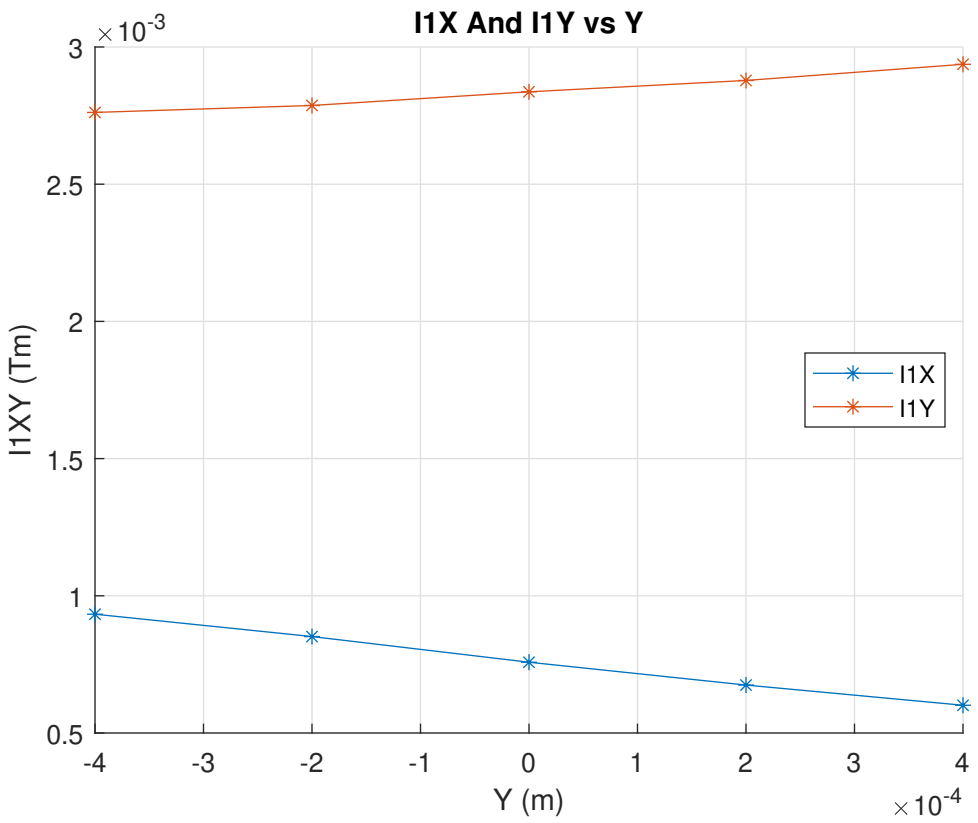

By vs Z, Peaks, Zeros, All Scans
By (T)
Z (m)
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
1
2
3
4
5

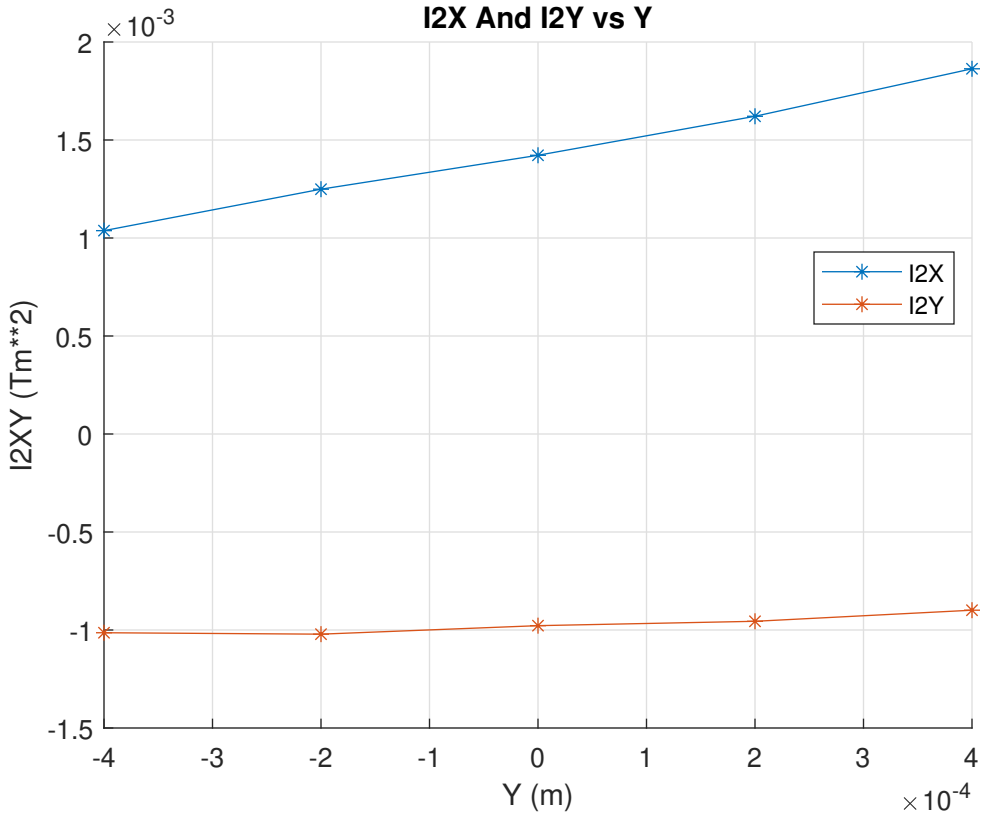

Abs By vs X At Field Peaks
Scaled Abs By + Peak Num (T)
X (m)
Mean Xctr = 0.000 mm
0
2
4
6
8
10
12
14
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

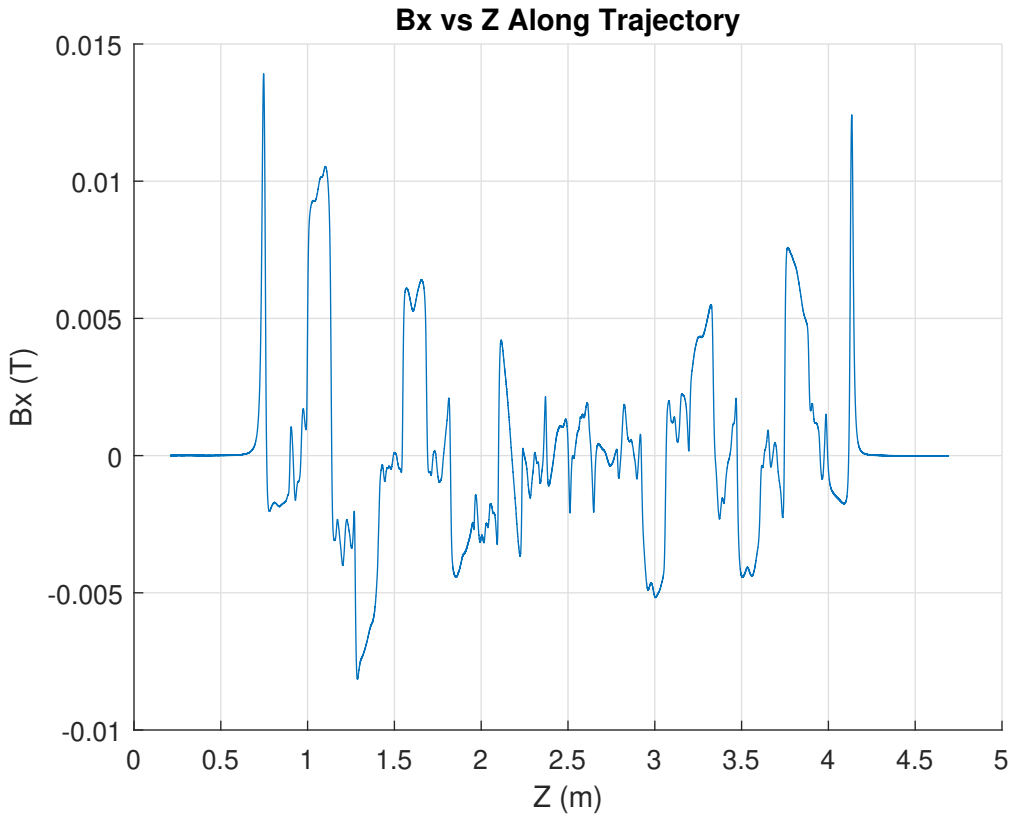

Abs By vs Y At Field Peaks
Scaled Abs By + Peak Num (T)
15
10
5
0
-4
-3
-2
-1
0
1
2
3
4
Y (m)
×10-4
Mean Yctr = -0.176 mm

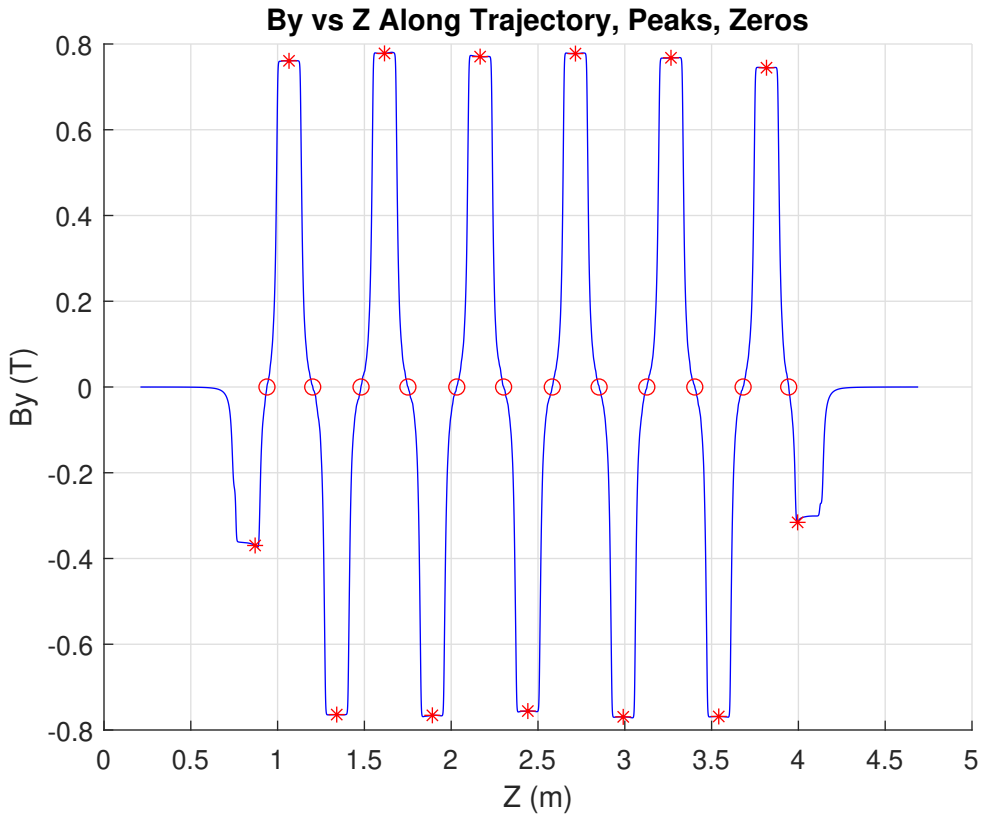

I1X And I1Y vs X
×10-3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
I1XY (Tm)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
I1X
I1Y

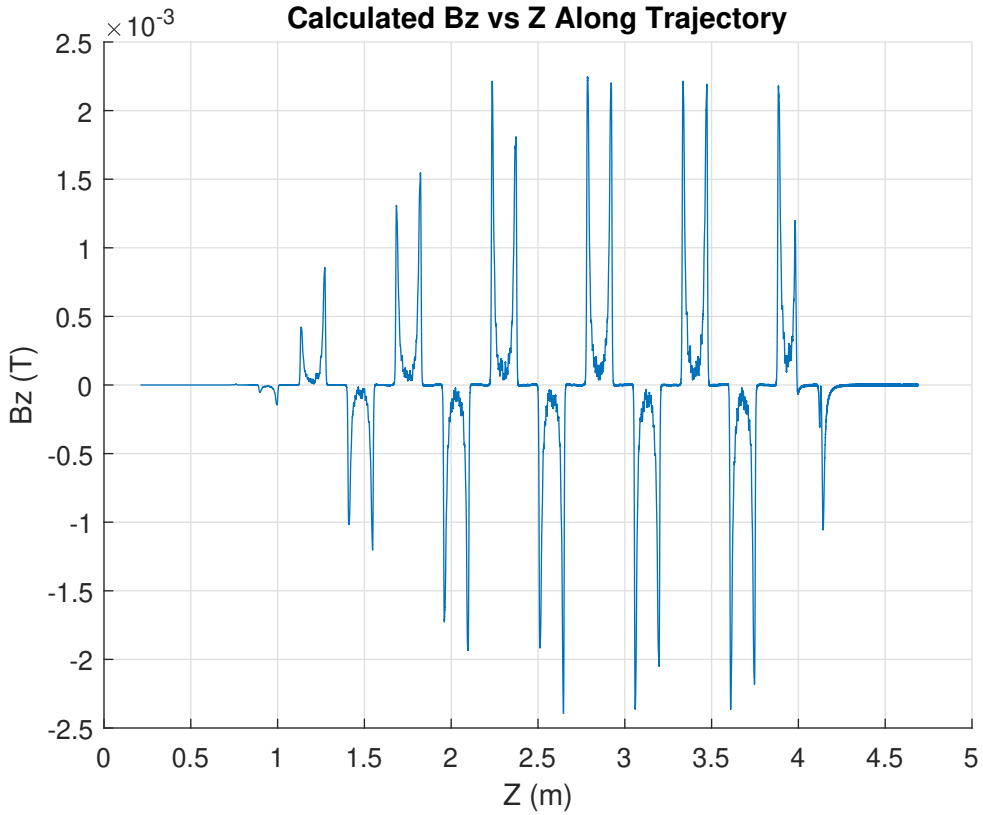

I2X And I2Y vs X
×10-3
1.5
1
0.5
0
-0.5
-1
-1.5
I2XY (Tm**2)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
I2X
I2Y

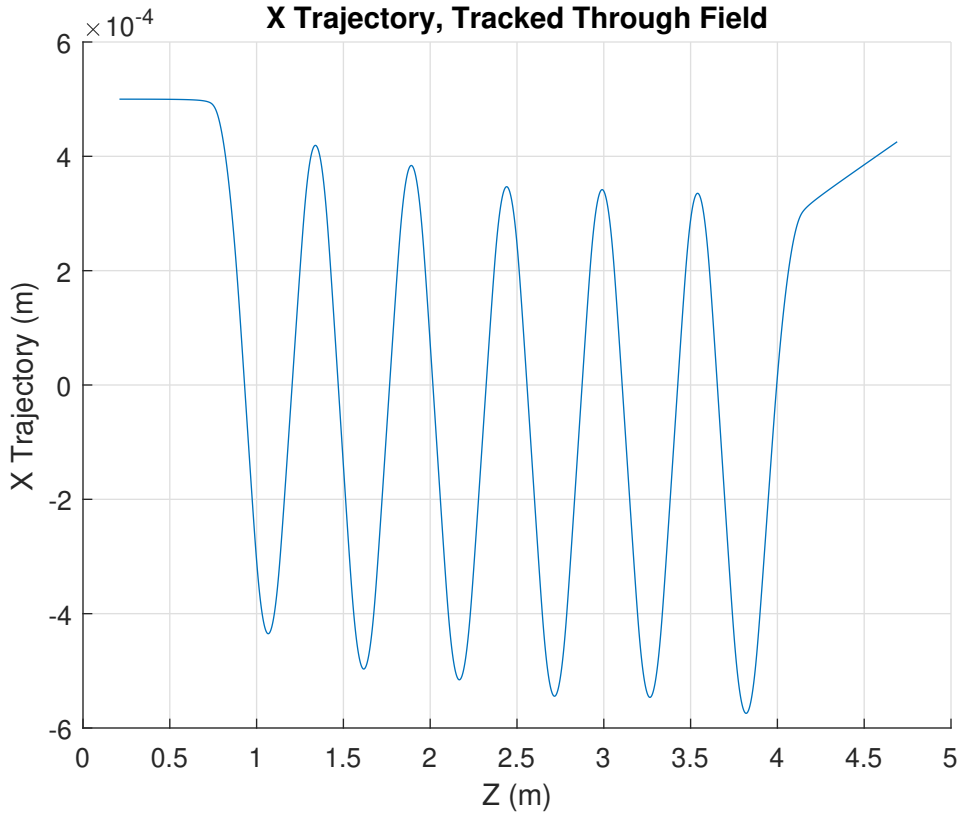

I1X And I1Y vs Y
×10-3
3
2.5
2
1.5
1
0.5
I1XY (Tm)
-4
-3
-2
-1
0
1
2
3
4
Y (m)
×10-4
I1X
I1Y

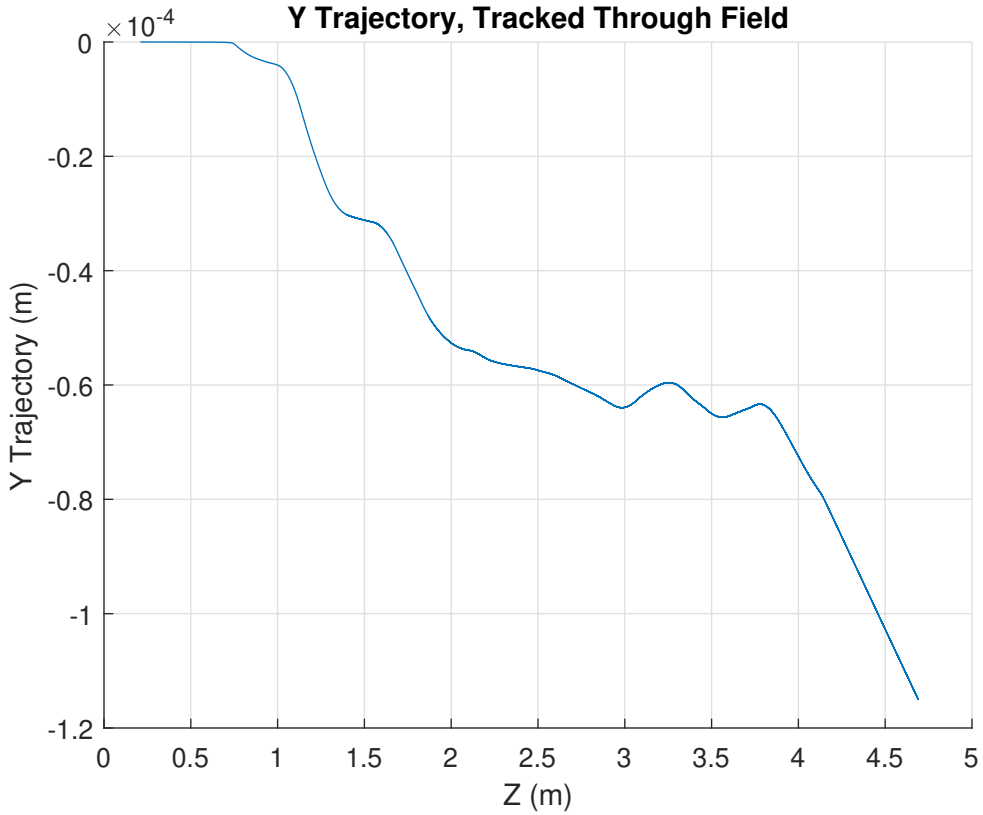

I2X And I2Y vs Y
×10^-3
2
1.5
1
0.5
0
-0.5
-1
-1.5
I2XY (Tm**2)
-4
-3
-2
-1
0
1
2
3
4
Y (m)
×10^-4
I2X
I2Y

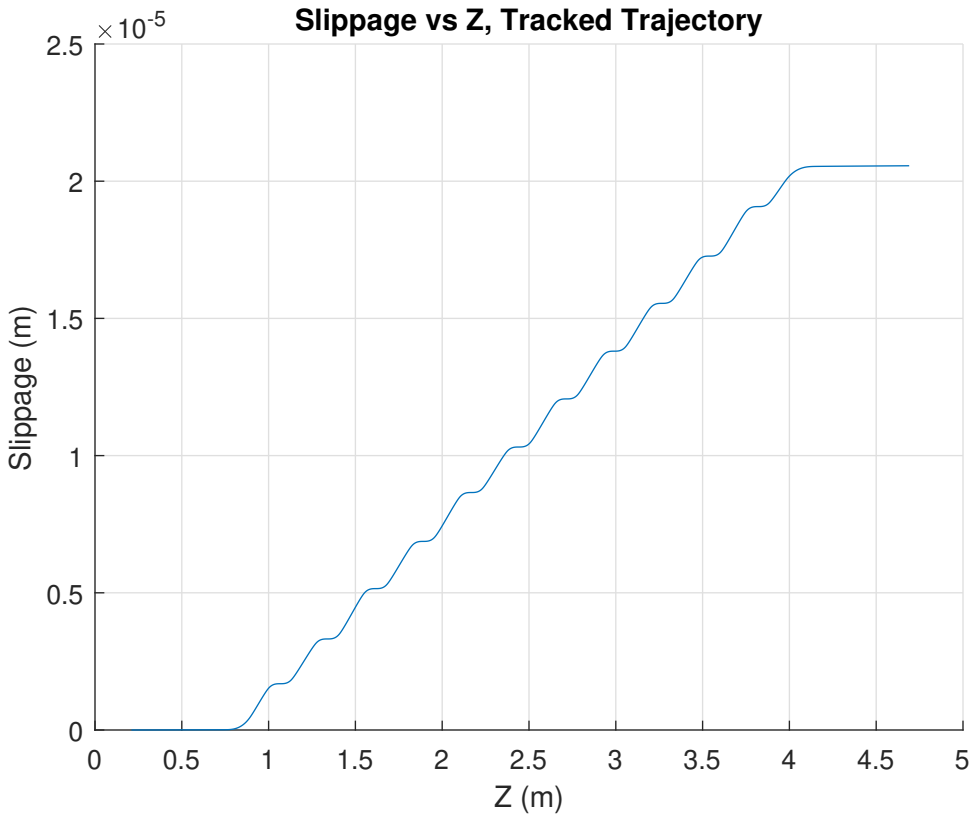

Bx vs Z Along Trajectory
0.015
0.01
0.005
0
-0.005
-0.01
Bx (T)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)

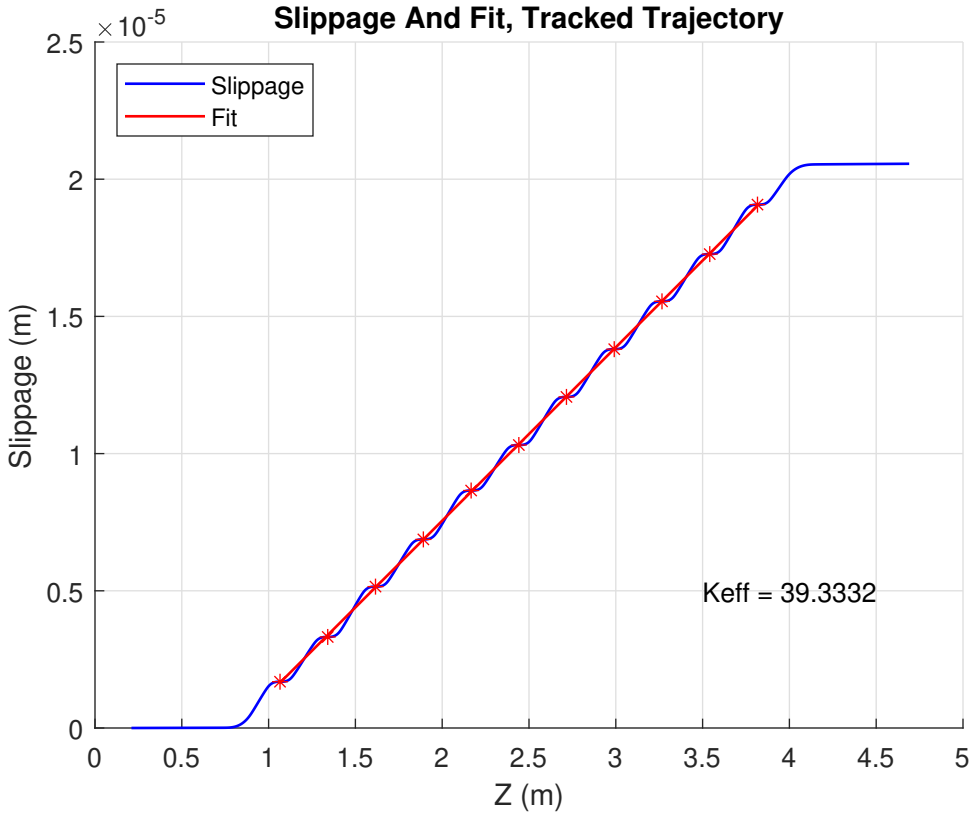

By vs Z Along Trajectory, Peaks, Zeros
By (T)
Z (m)
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5


Calculated Bz vs Z Along Trajectory
×10-3
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
Bz (T)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)


X Trajectory, Tracked Through Field
×10^-4
6
4
2
0
-2
-4
-6
X Trajectory (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)


Y Trajectory, Tracked Through Field
×10^-4
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
Y Trajectory (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)


Slippage vs Z, Tracked Trajectory
×10^-5
2.5
2
1.5
1
0.5
0
Slippage (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)


Slippage And Fit, Tracked Trajectory
×10^-5
Slippage
Fit
Keff = 39.3332
Slippage (m)
Z (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5