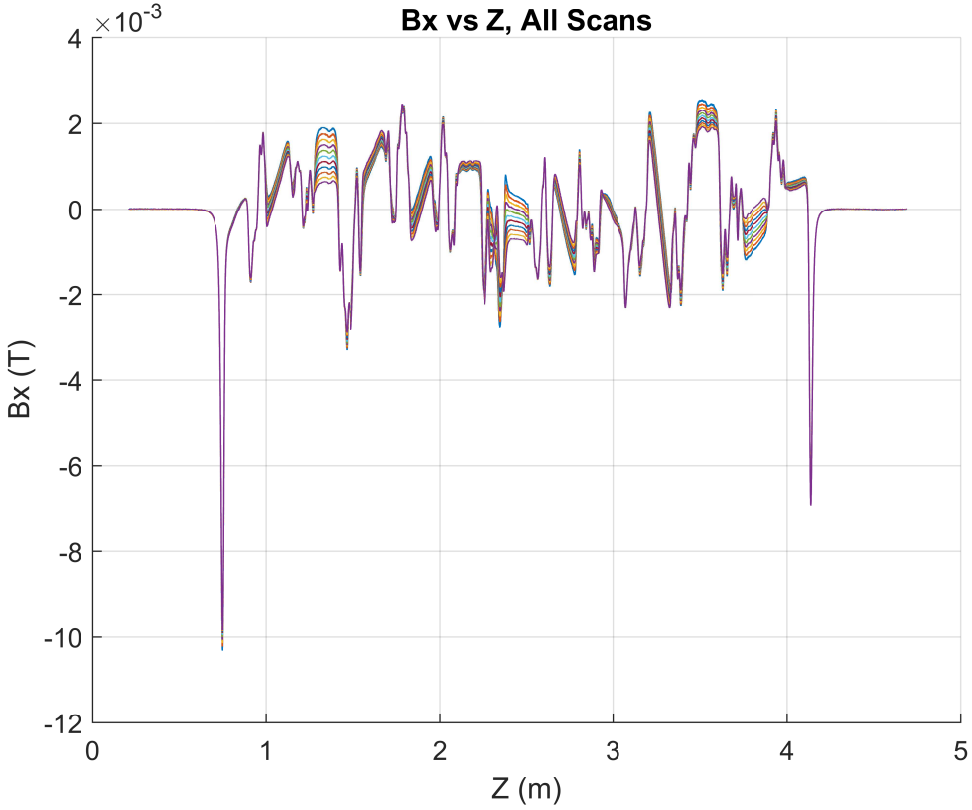
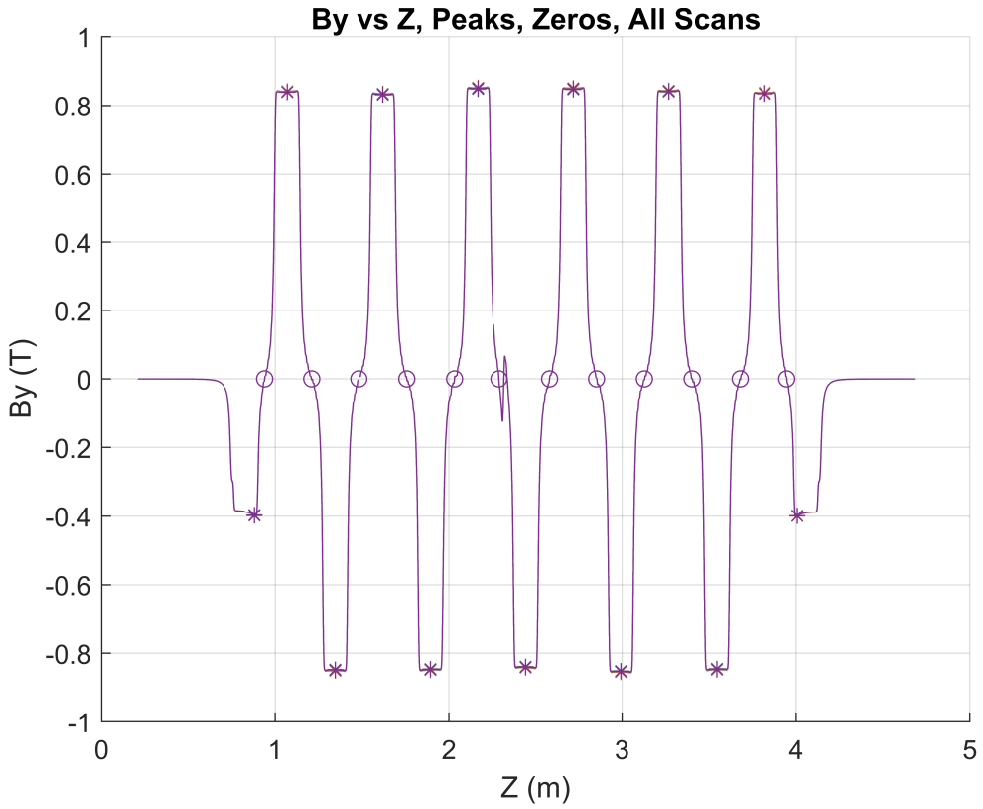
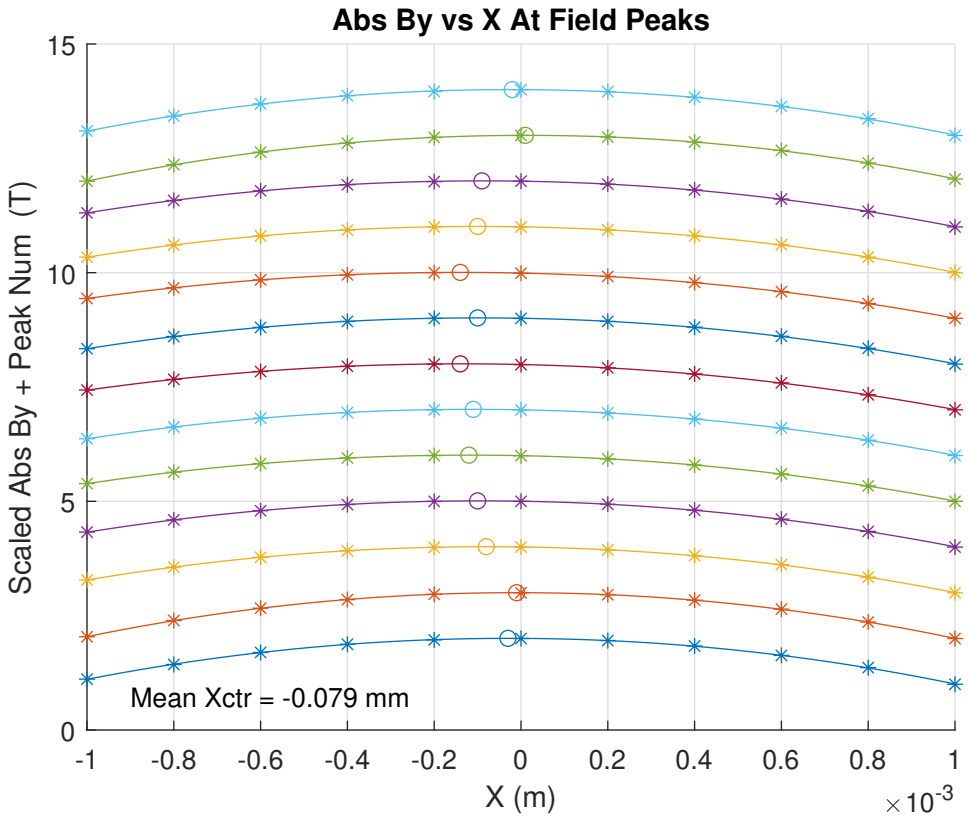
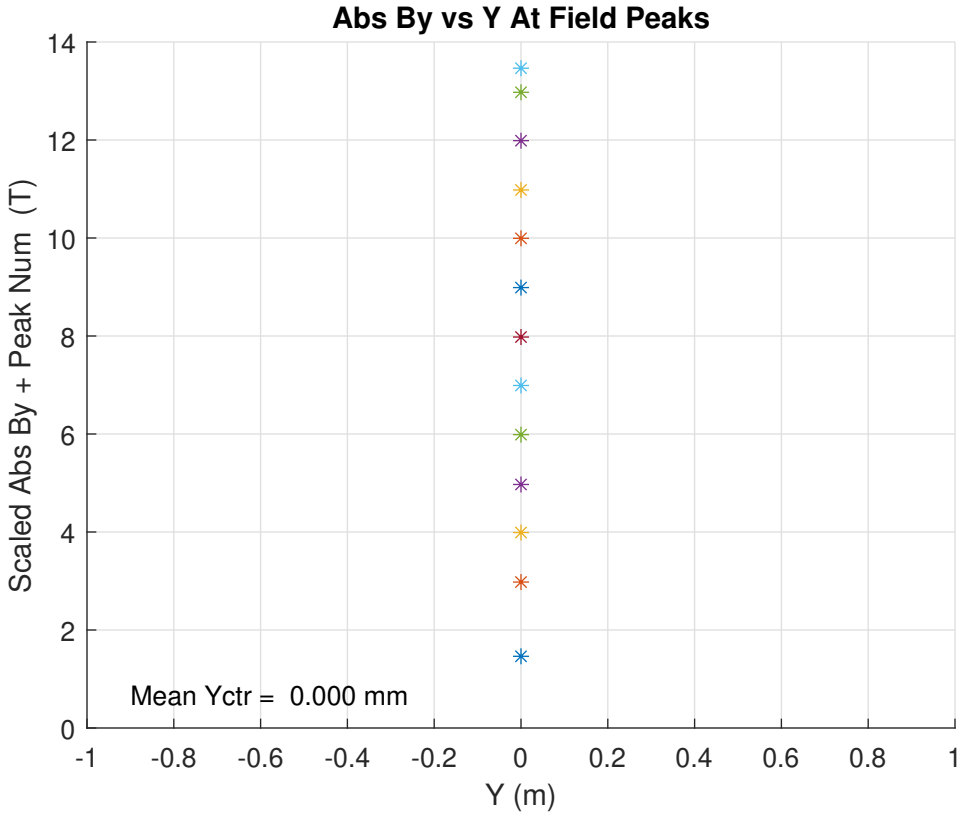
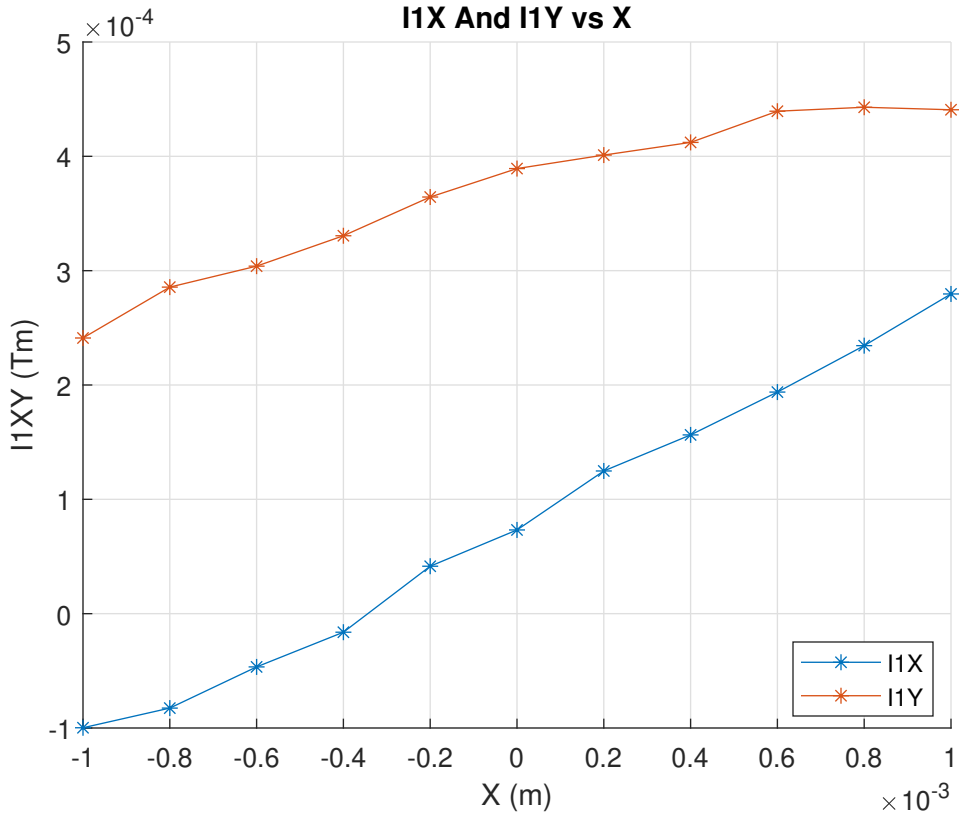
SLAC Magnetic Measurements#
Date: 10-09-2020#
Time: 08:44:52#

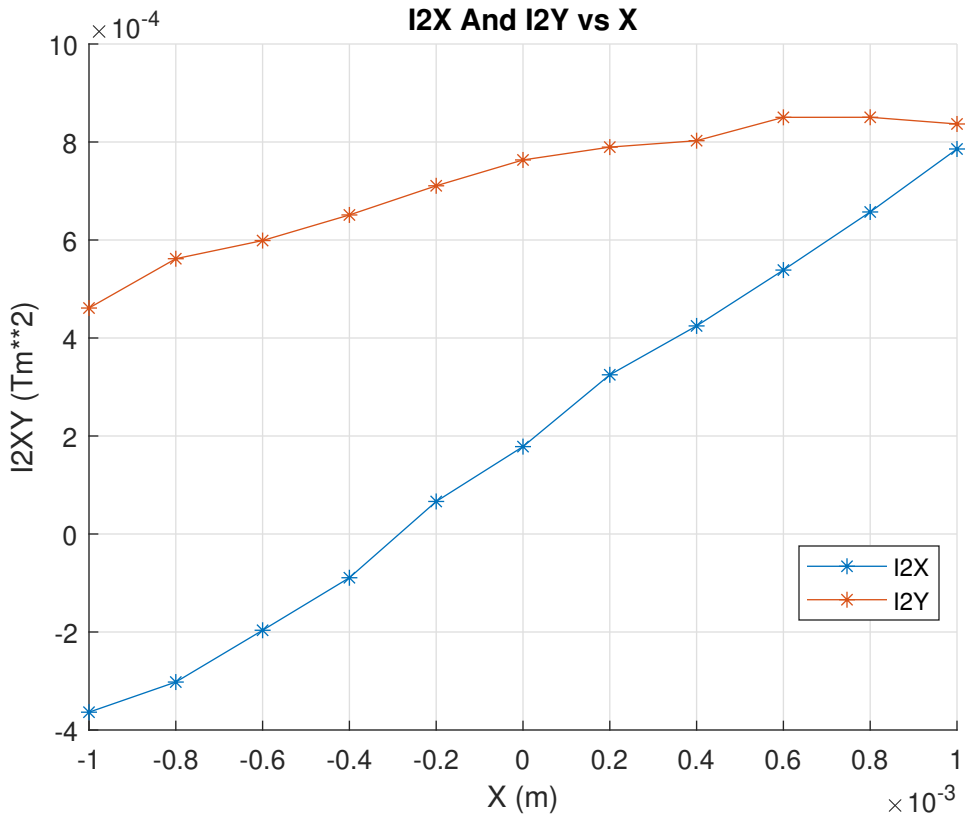

Bx vs Z, All Scans
×10^-3
4
2
0
-2
-4
-6
-8
-10
-12
Bx (T)
0
1
2
3
4
5
Z (m)

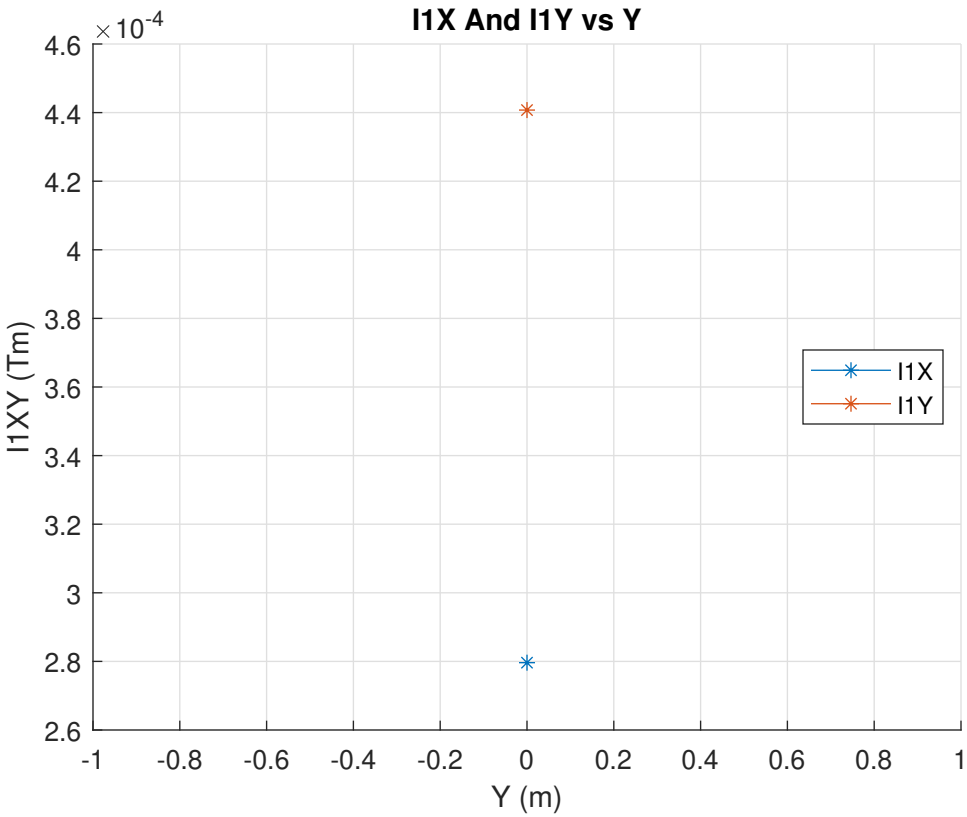

By vs Z, Peaks, Zeros, All Scans
By (T)
Z (m)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
1
2
3
4
5

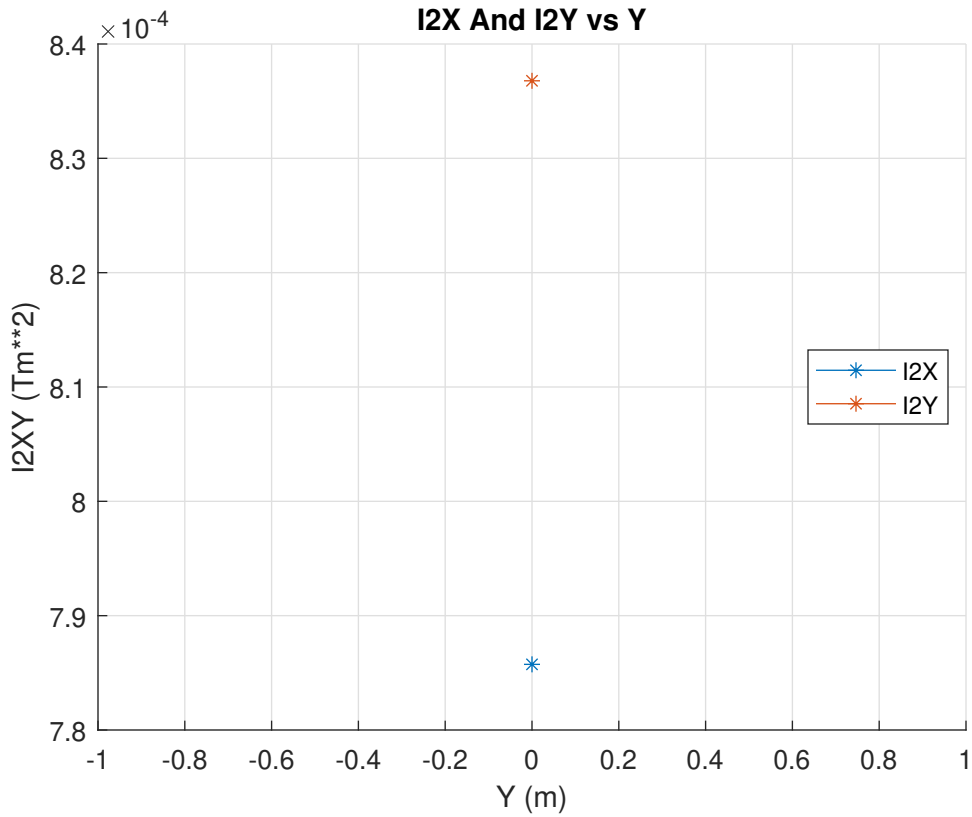

Abs By vs X At Field Peaks
Scaled Abs By + Peak Num (T)
15
10
5
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10-3
Mean Xctr = -0.079 mm

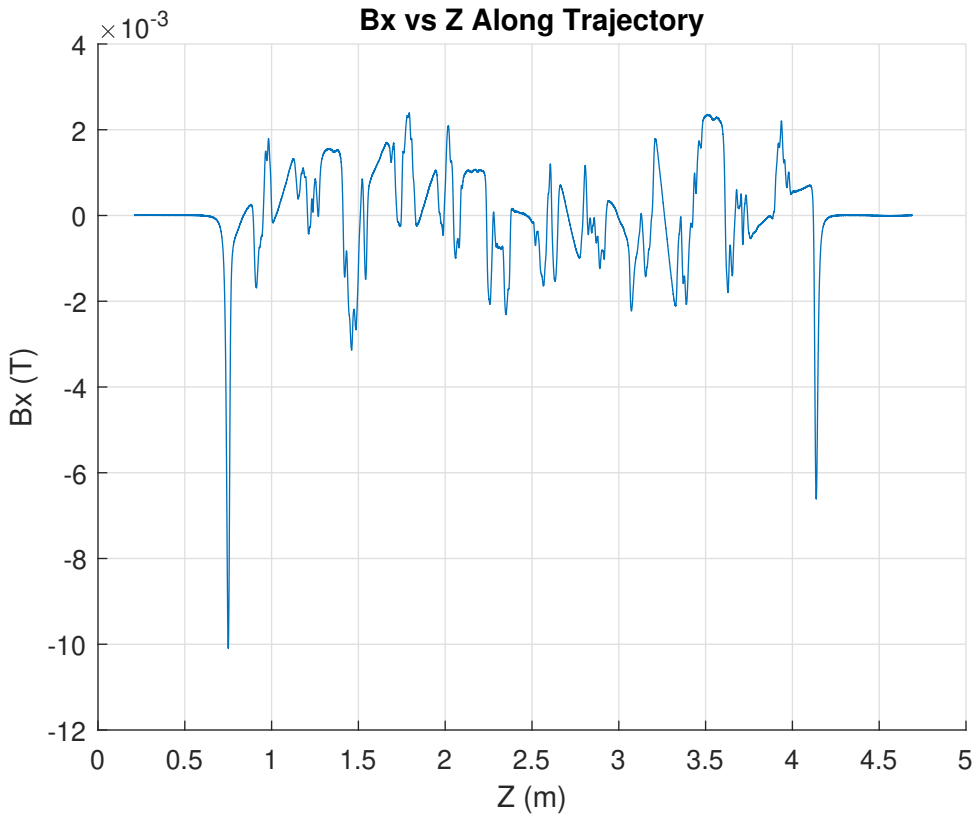

Abs By vs Y At Field Peaks
Scaled Abs By + Peak Num (T)
Y (m)
Mean Yctr = 0.000 mm
0
2
4
6
8
10
12
14
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

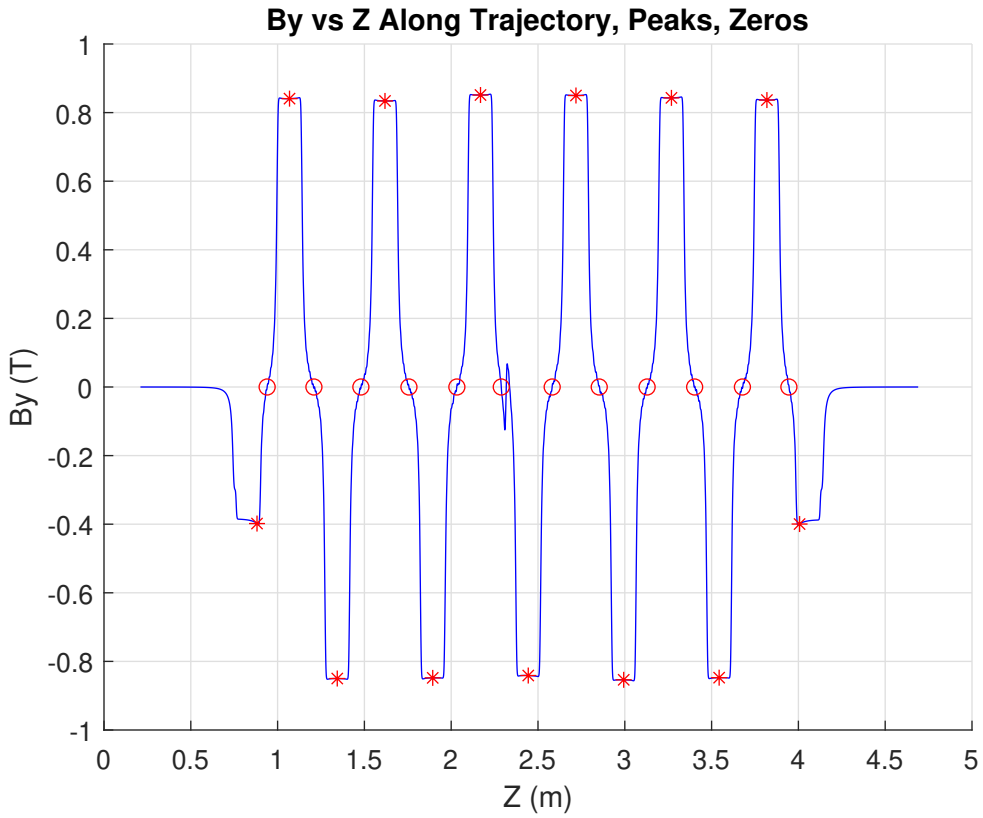

I1X And I1Y vs X
×10-4
5
4
3
2
1
0
-1
I1XY (Tm)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10-3
I1X
I1Y

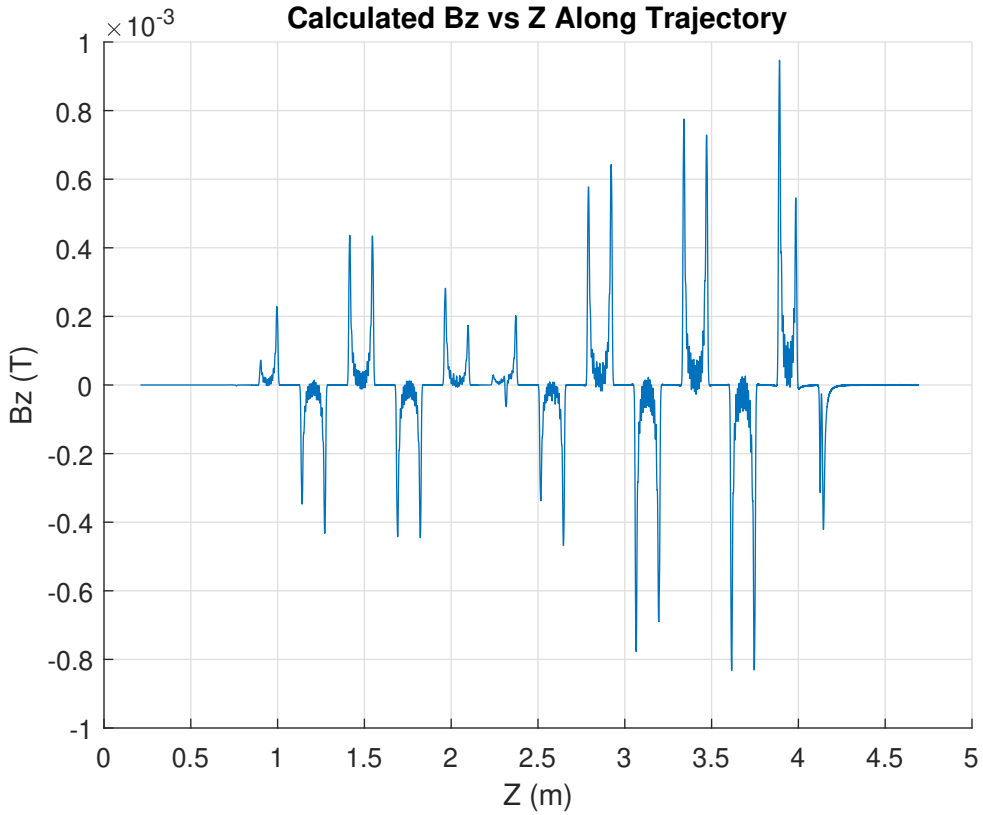

I2X And I2Y vs X
×10^-4
10
8
6
4
2
0
-2
-4
I2XY (Tm**2)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10^-3
I2X
I2Y

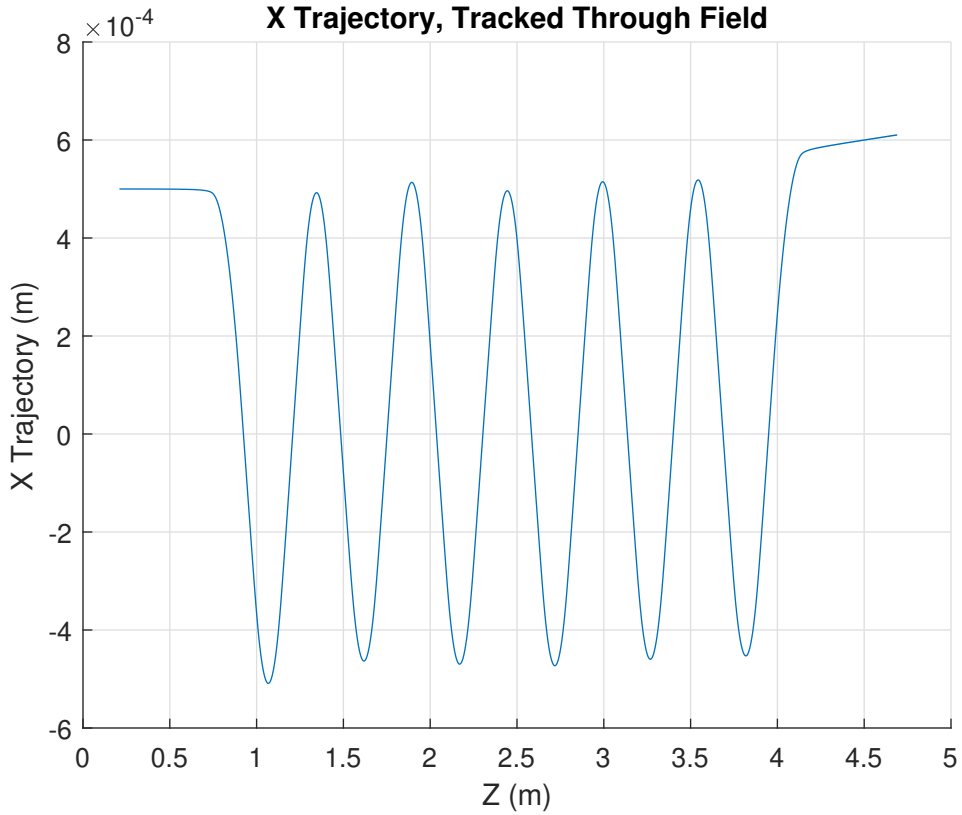

I1X And I1Y vs Y
×10^-4
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
I1XY (Tm)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Y (m)
I1X
I1Y

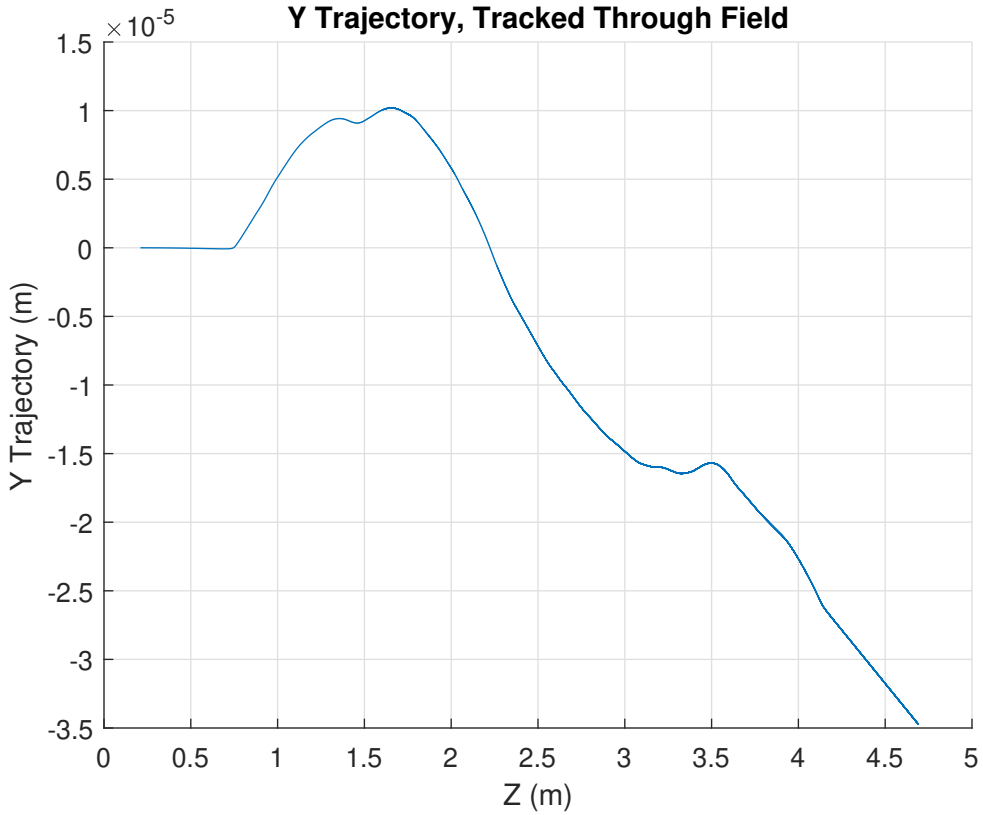

I2X And I2Y vs Y
×10^-4
8.4
8.3
8.2
8.1
8
7.9
7.8
I2XY (Tm**2)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Y (m)
I2X
I2Y

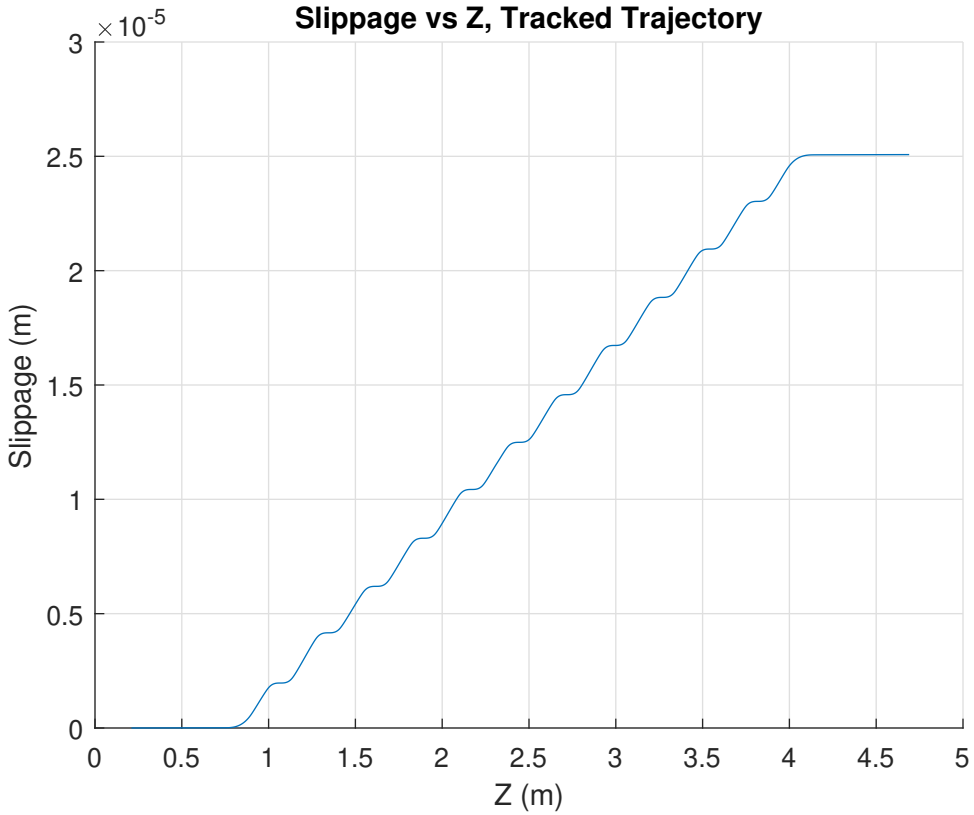

Bx vs Z Along Trajectory
×10-3
4
2
0
-2
-4
-6
-8
-10
-12
Bx (T)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)

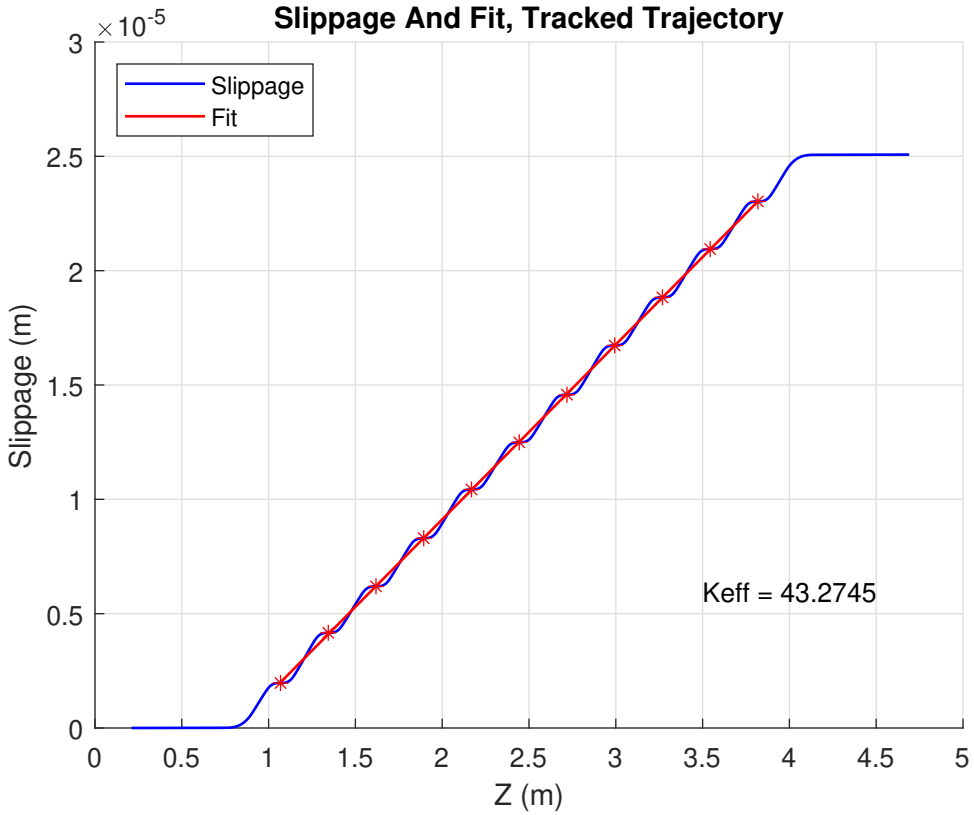

By vs Z Along Trajectory, Peaks, Zeros
By (T)
Z (m)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5


Calculated Bz vs Z Along Trajectory
×10-3
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
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
8
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^-5
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
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
Slippage (m)
Z (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5


Slippage And Fit, Tracked Trajectory
×10^-5
Slippage
Fit
Keff = 43.2745
Slippage (m)
Z (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5