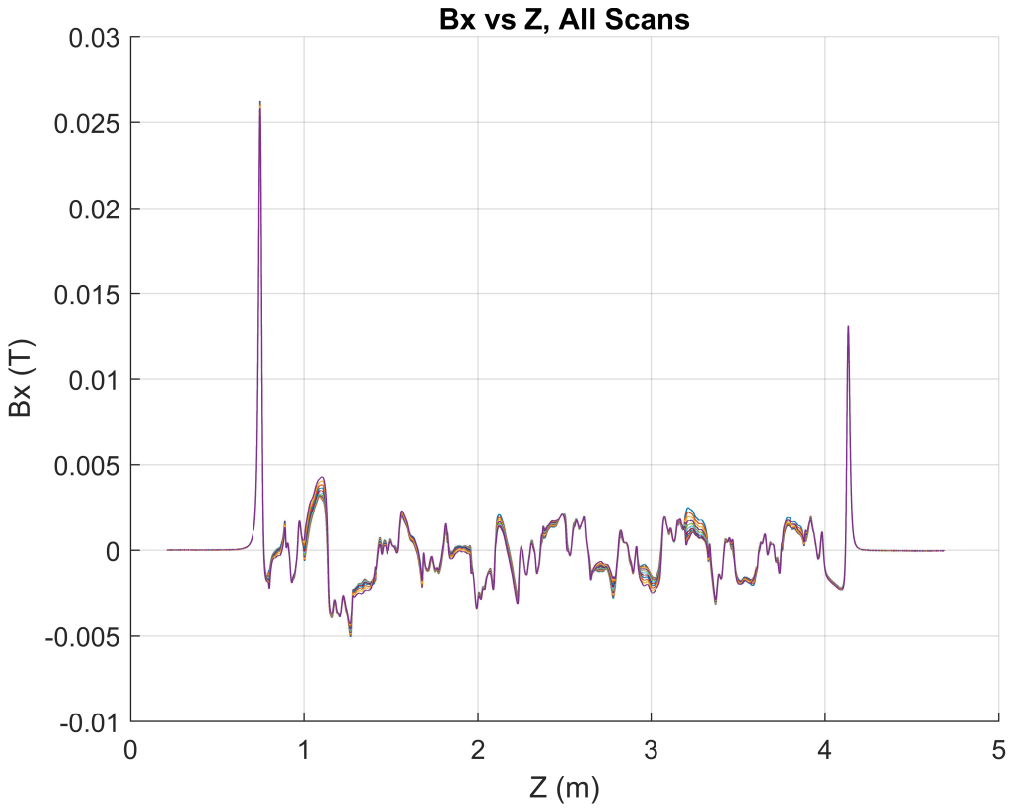
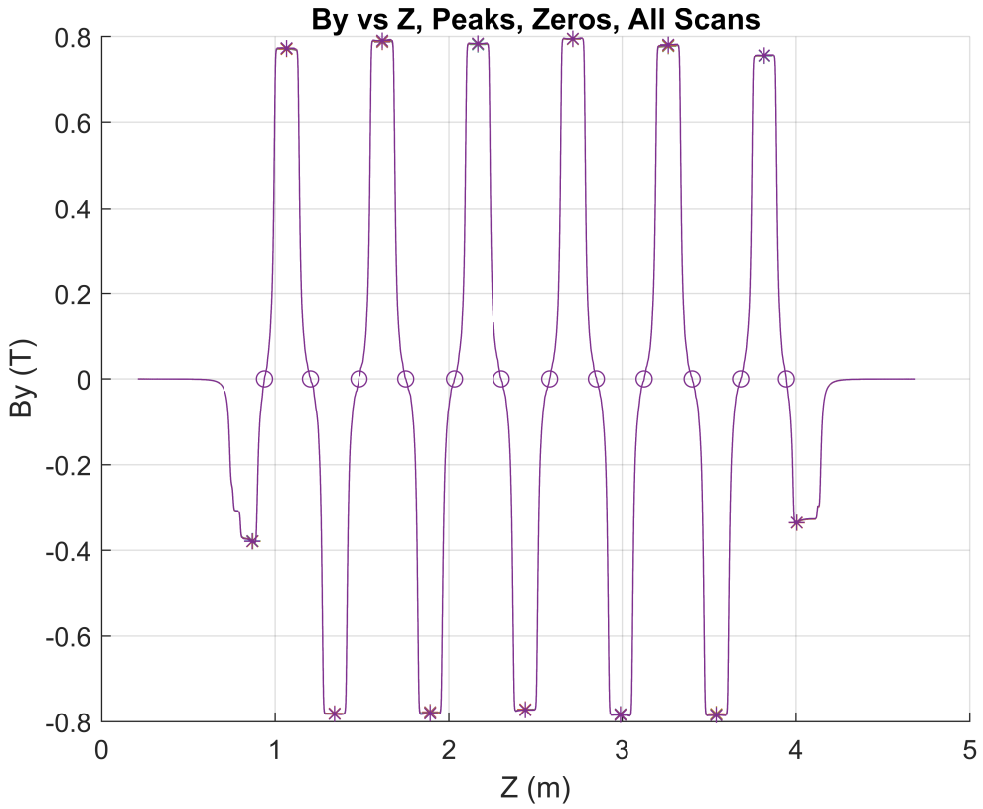
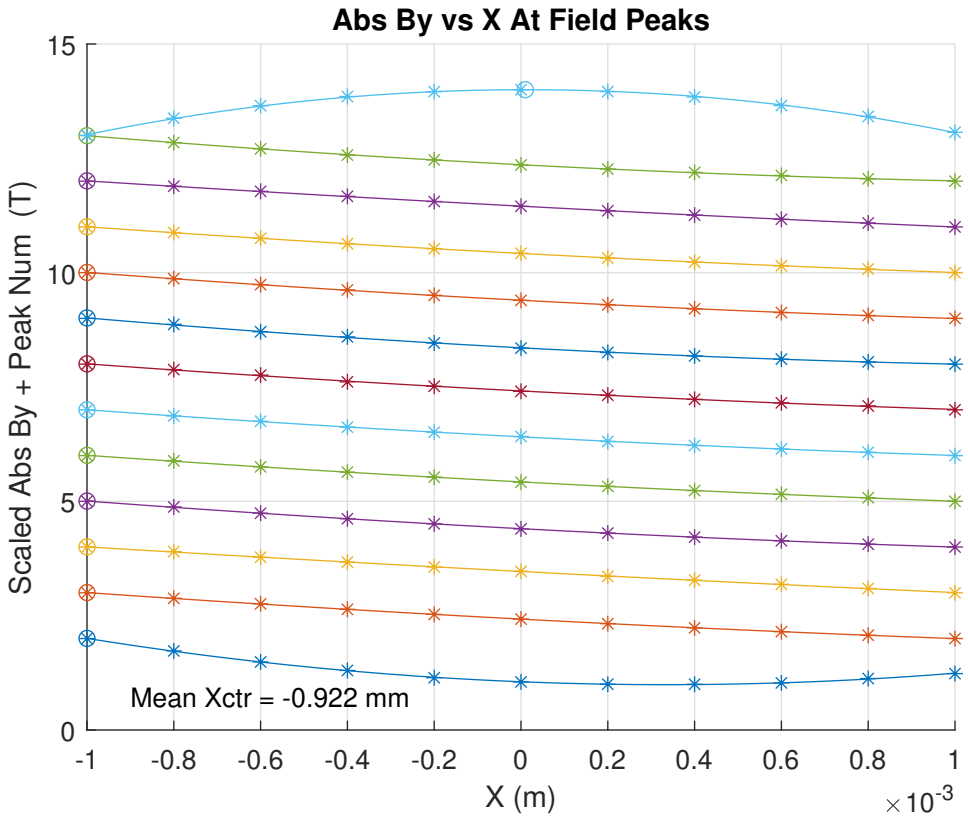
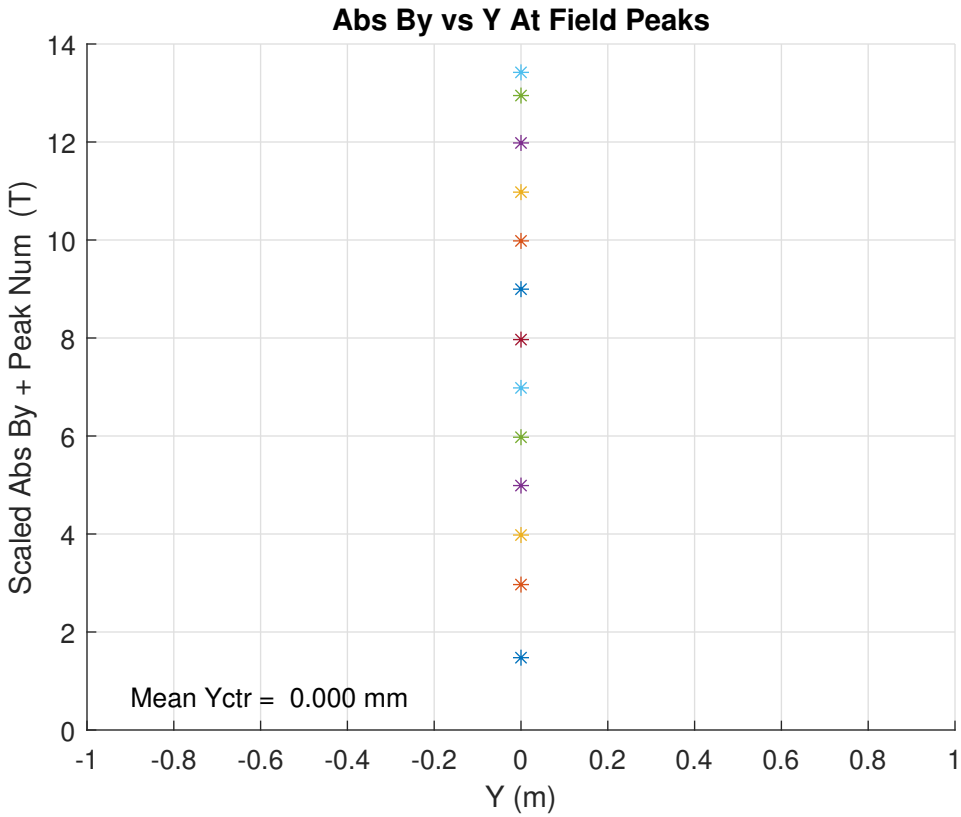
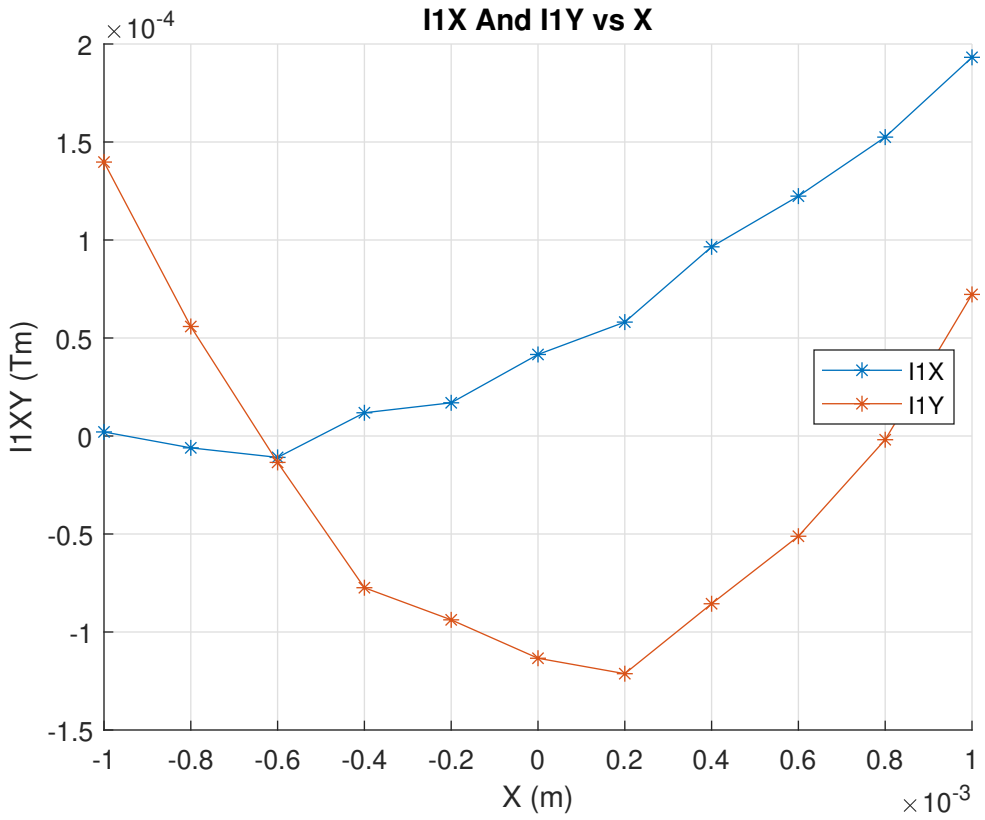
SLAC Magnetic Measurements#
Date: 06-21-2021#
Time: 13:32:55#

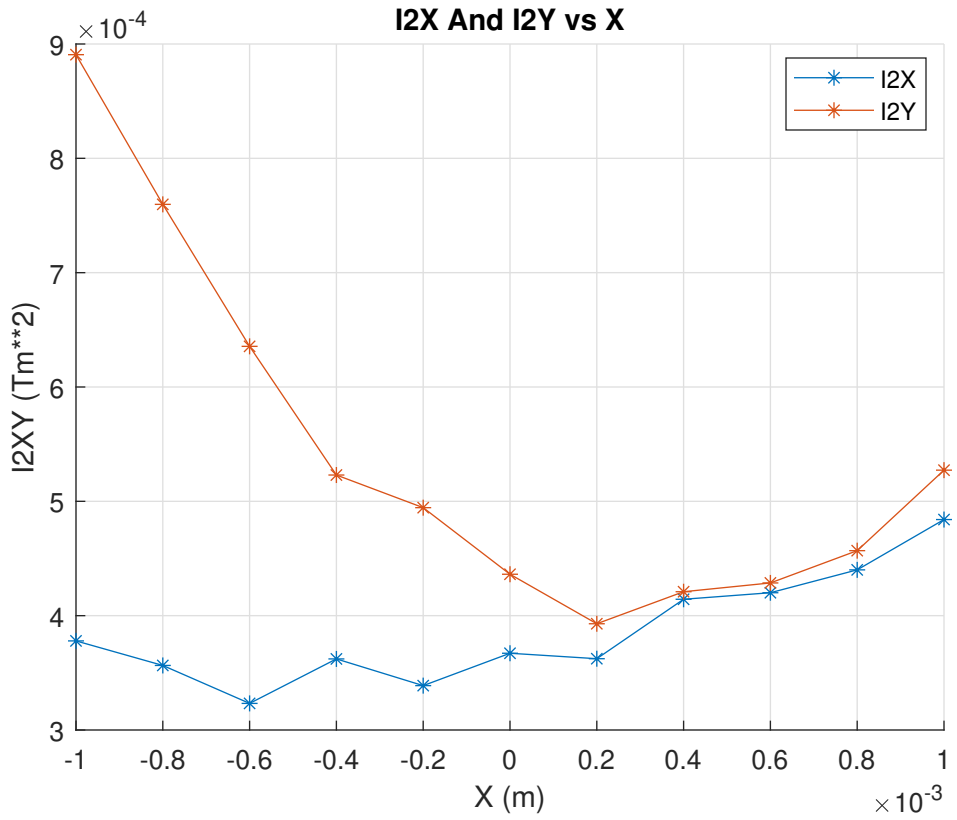

Bx vs Z, All Scans
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
Bx (T)
0
1
2
3
4
5
Z (m)

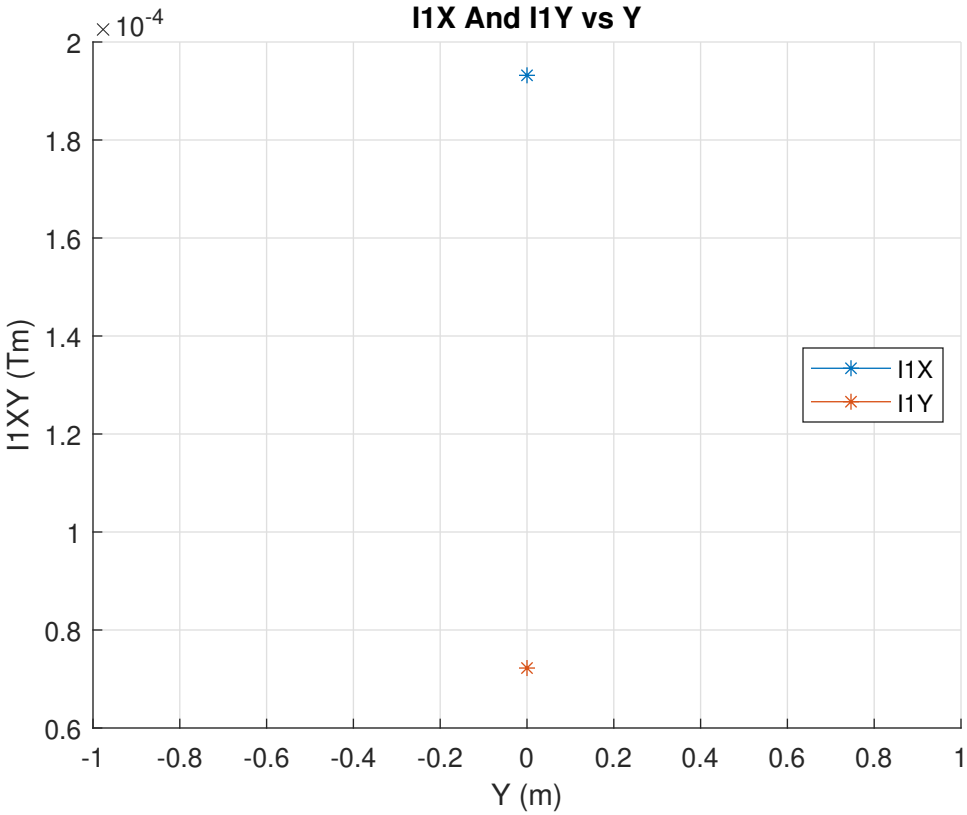

By vs Z, Peaks, Zeros, All Scans
By (T)
Z (m)
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
1
2
3
4
5

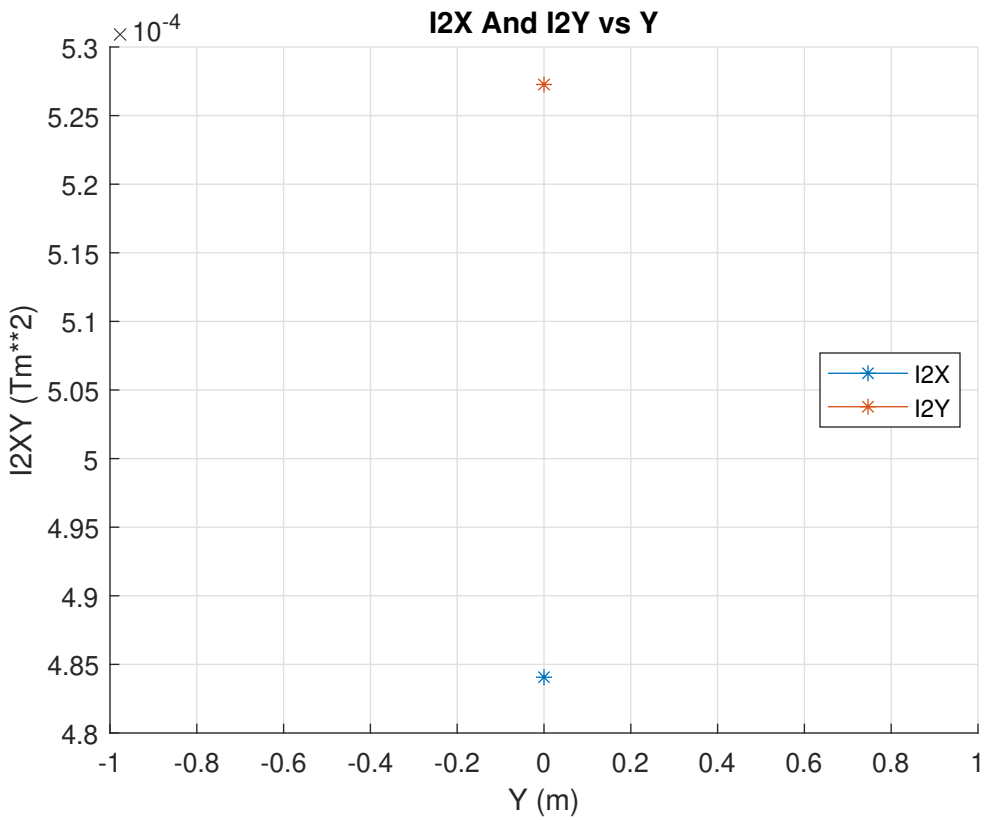

Abs By vs X At Field Peaks
Scaled Abs By + Peak Num (T)
15
10
5
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10-3
Mean Xctr = -0.922 mm

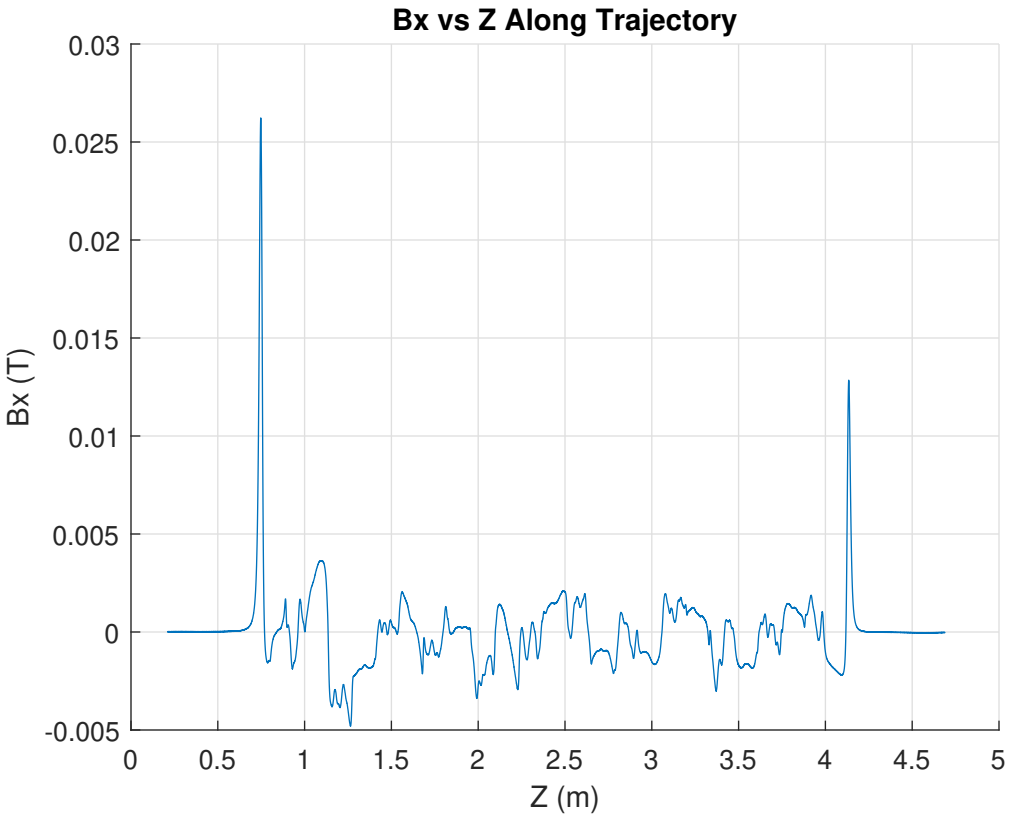

Abs By vs Y At Field Peaks
Scaled Abs By + Peak Num (T)
Y (m)
Mean Yctr = 0.000 mm
0
2
4
6
8
10
12
14
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

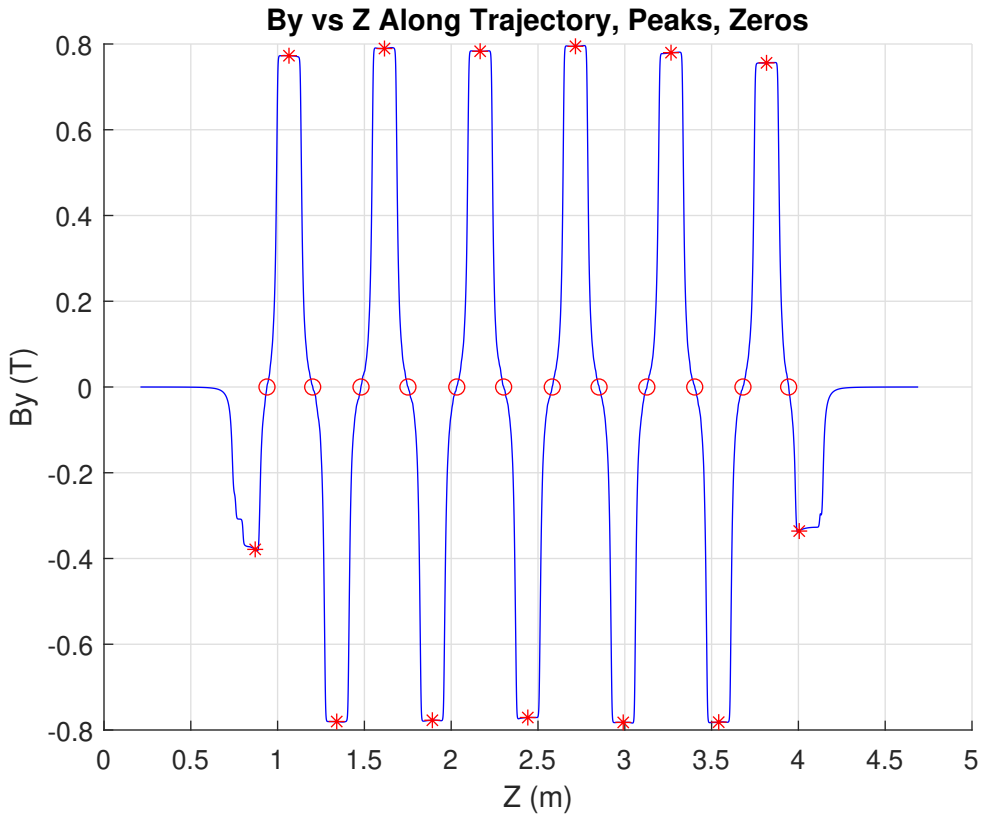

I1X And I1Y vs X
×10-4
2
1.5
1
0.5
0
-0.5
-1
-1.5
I1XY (Tm)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10-3
I1X
I1Y

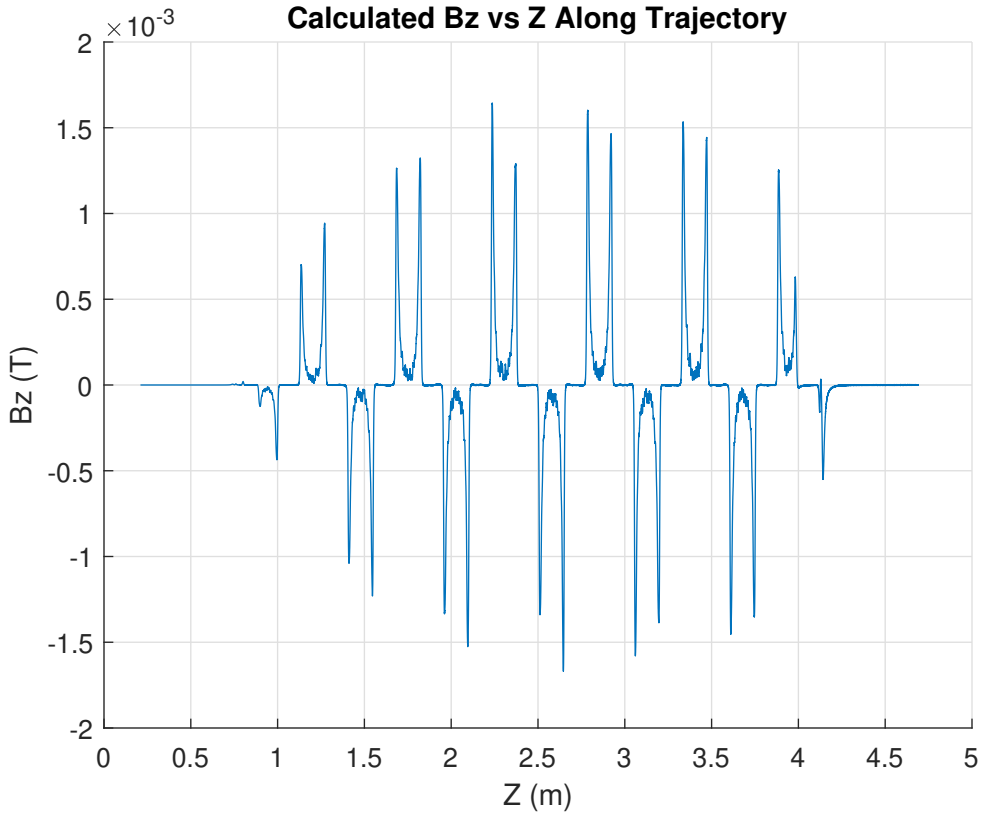

I2X And I2Y vs X
I2X
I2Y
I2XY (Tm**2)
X (m)
×10^-4
×10^-3
9
8
7
6
5
4
3
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

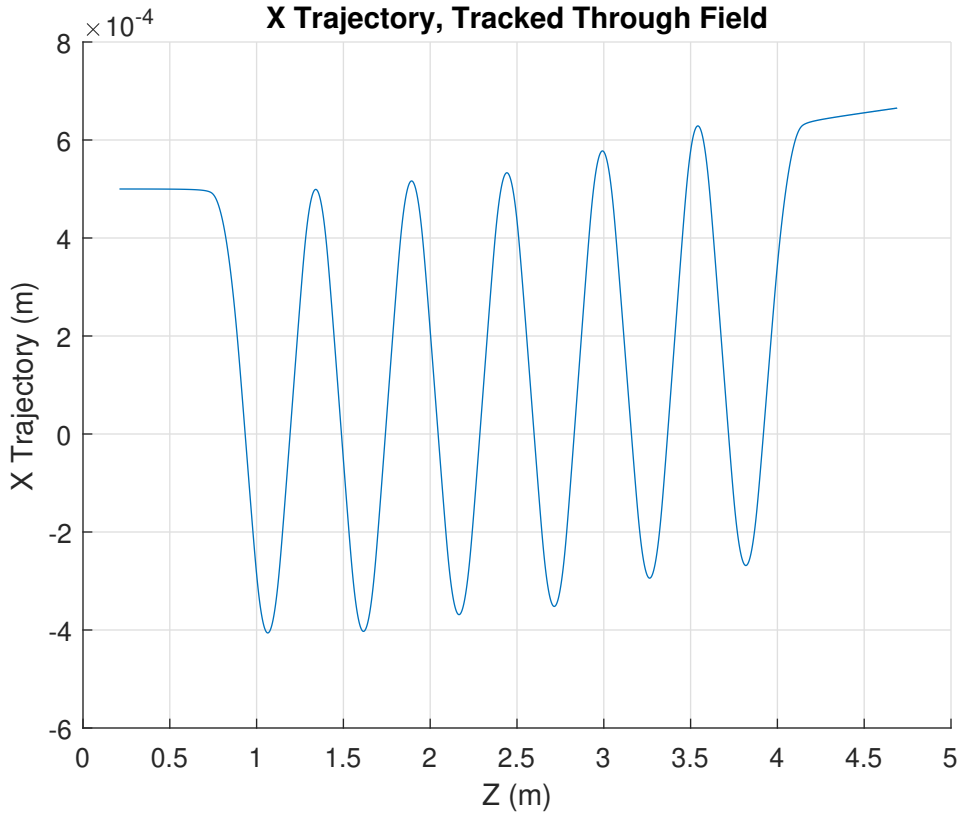

I1X And I1Y vs Y
×10^-4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
I1XY (Tm)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Y (m)
I1X
I1Y

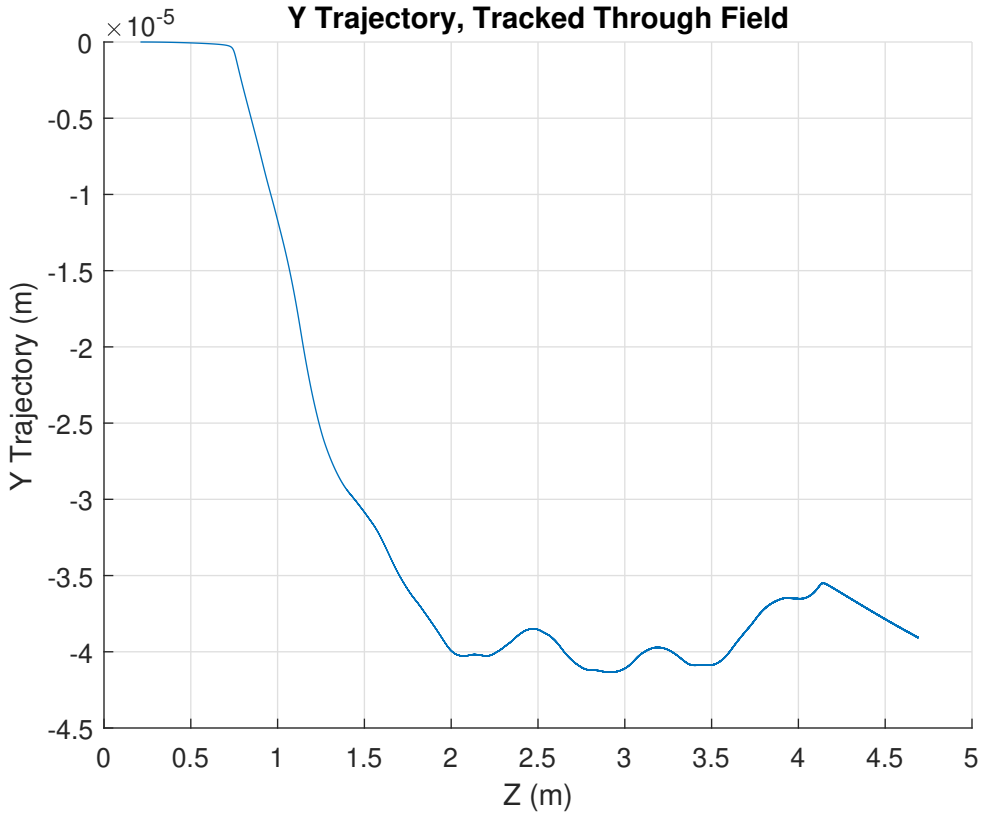

I2X And I2Y vs Y
×10^-4
5.3
5.25
5.2
5.15
5.1
5.05
5
4.95
4.9
4.85
4.8
I2XY (Tm**2)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Y (m)
I2X
I2Y

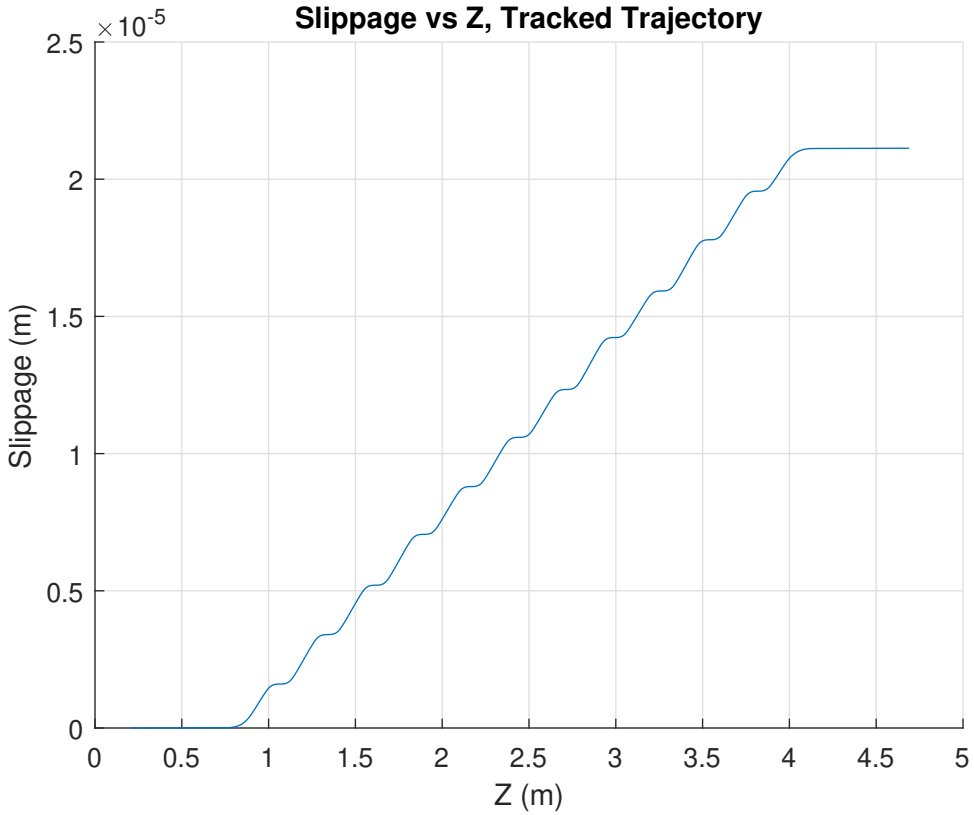

Bx vs Z Along Trajectory
Bx (T)
Z (m)
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.005
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5

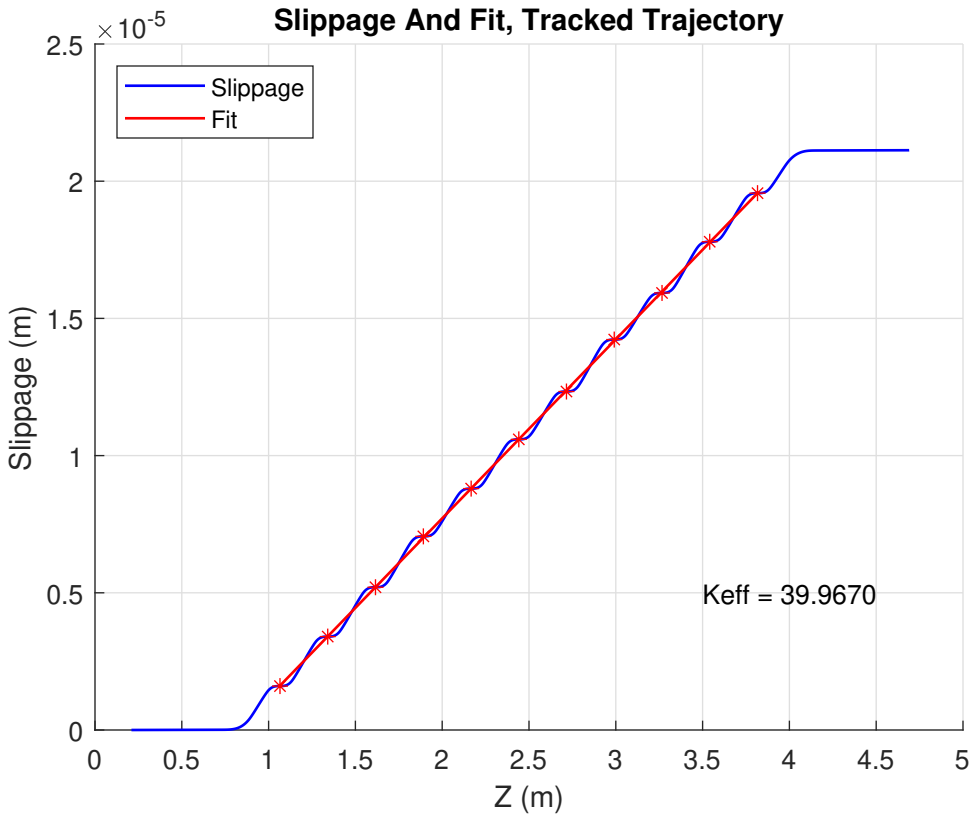

By vs Z Along Trajectory, Peaks, Zeros
By (T)
Z (m)
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5


Calculated Bz vs Z Along Trajectory
×10^-3
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
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
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
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
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 = 39.9670
Slippage (m)
Z (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5