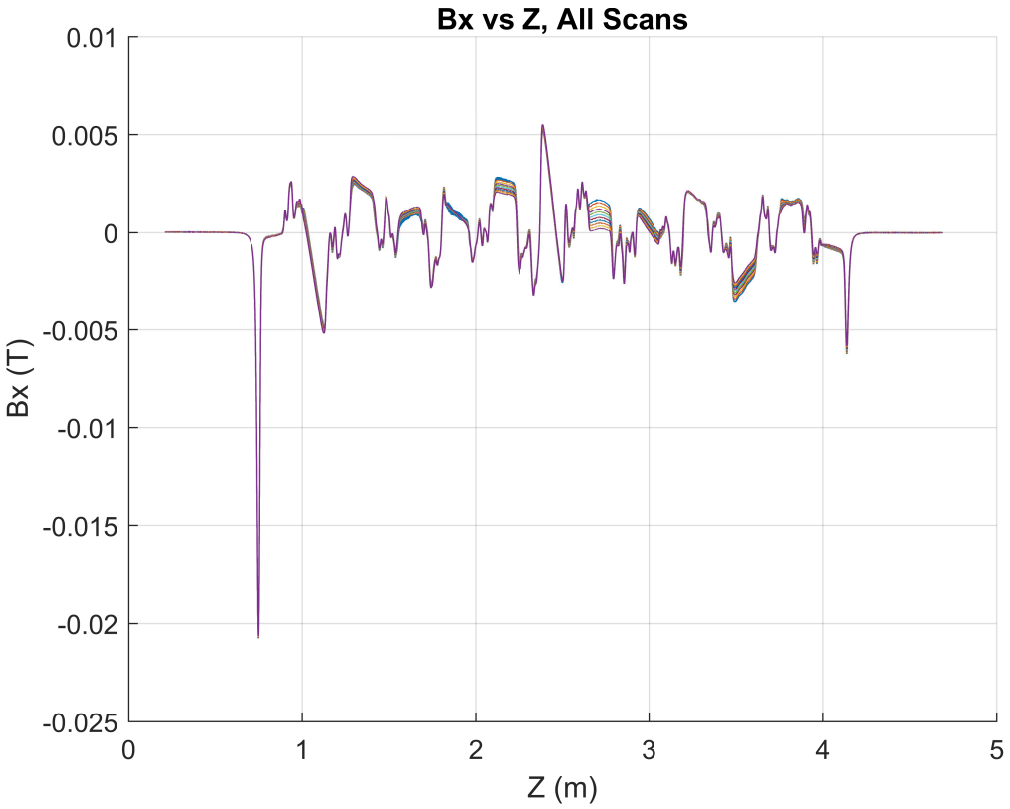
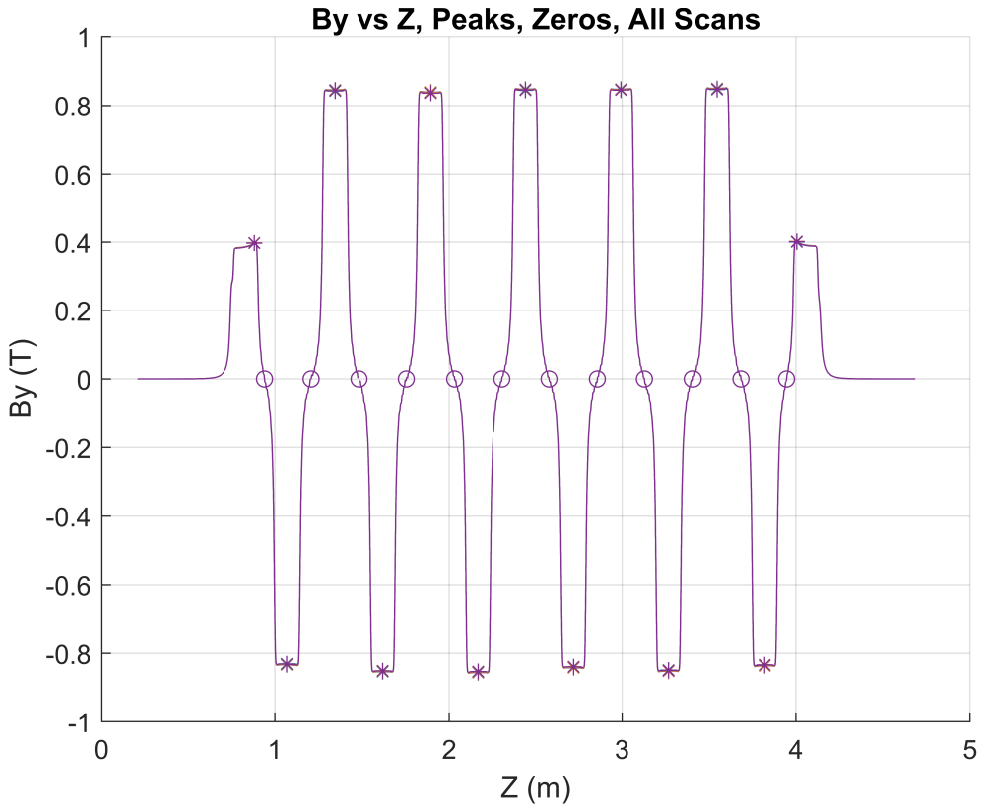
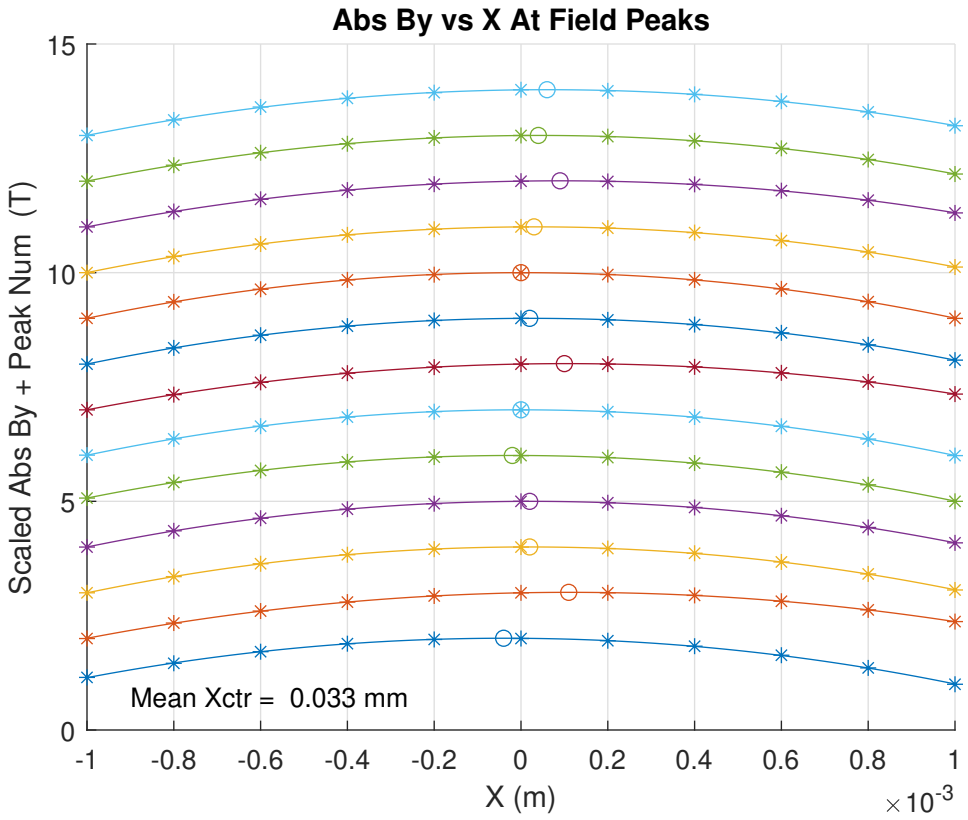
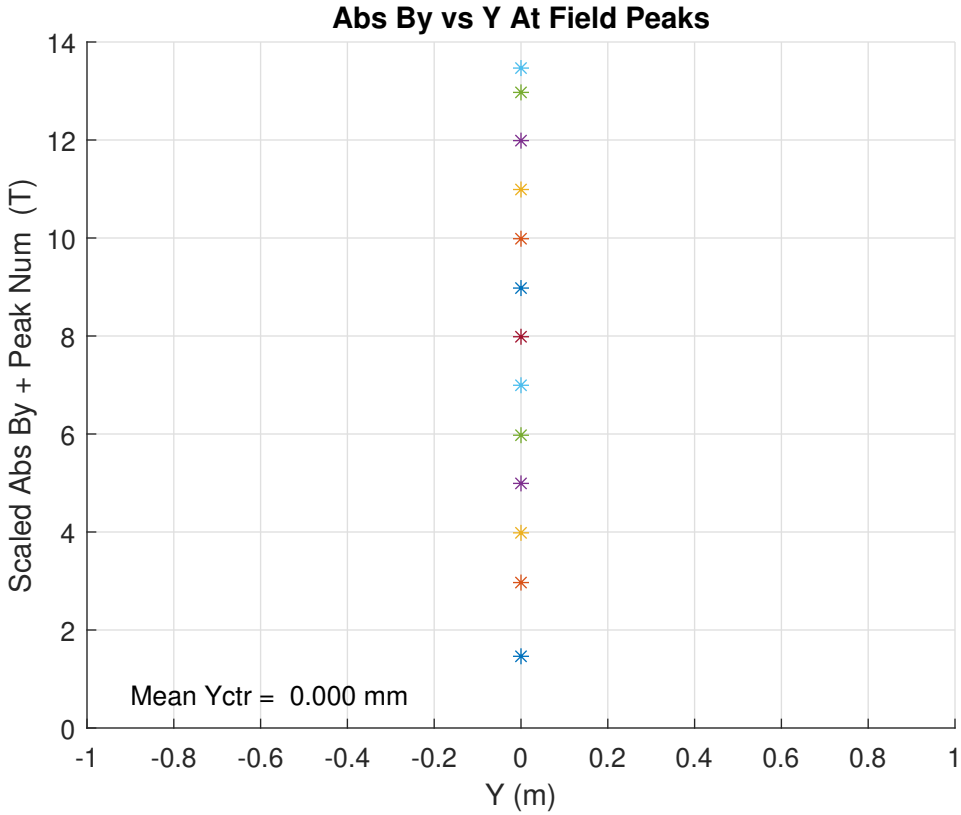
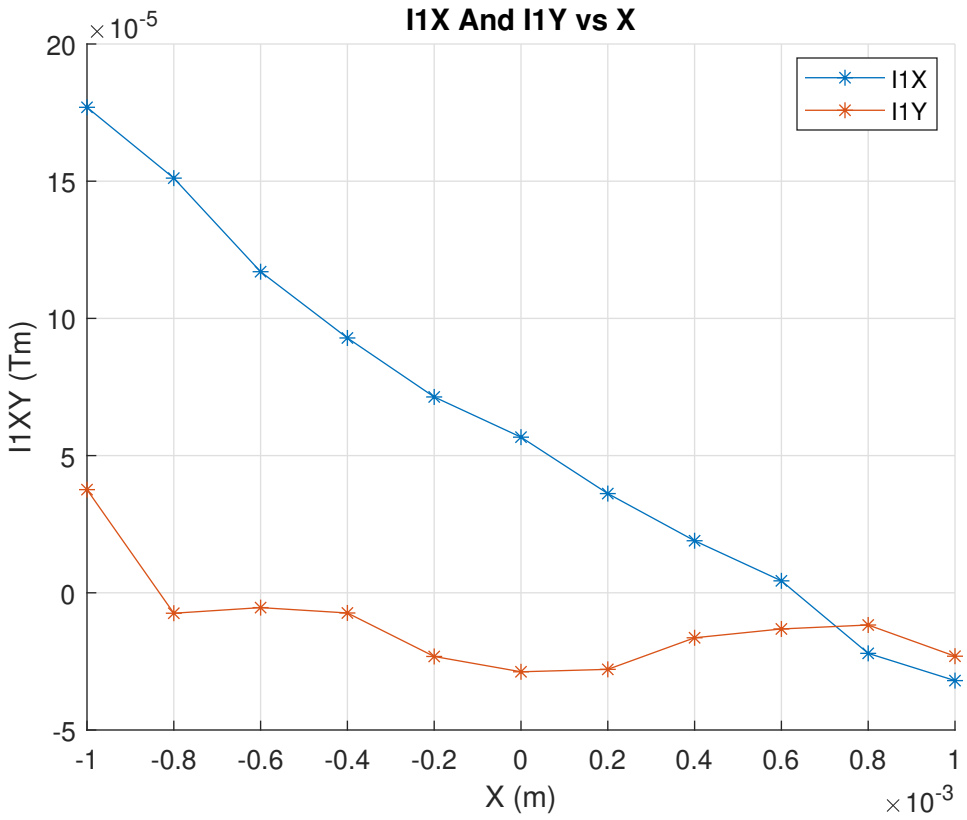
SLAC Magnetic Measurements#
Date: 10-02-2020#
Time: 10:00:28#

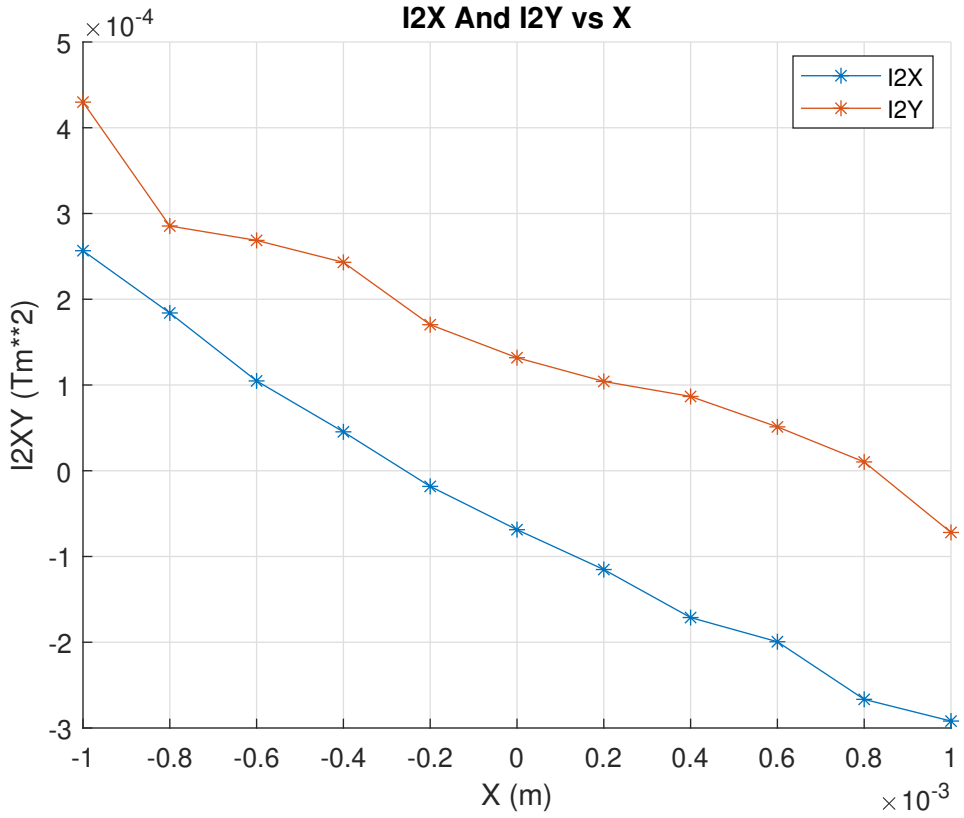

Bx vs Z, All Scans
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
Bx (T)
0
1
2
3
4
5
Z (m)

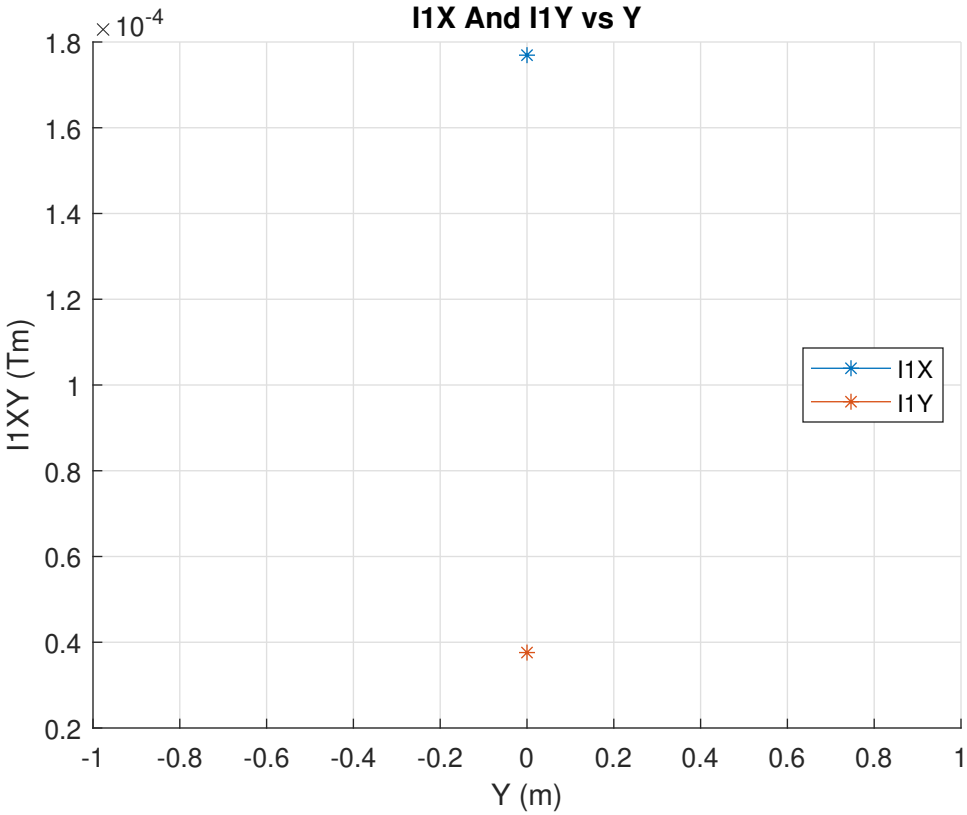

By vs Z, Peaks, Zeros, All Scans
By (T)
Z (m)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
1
2
3
4
5

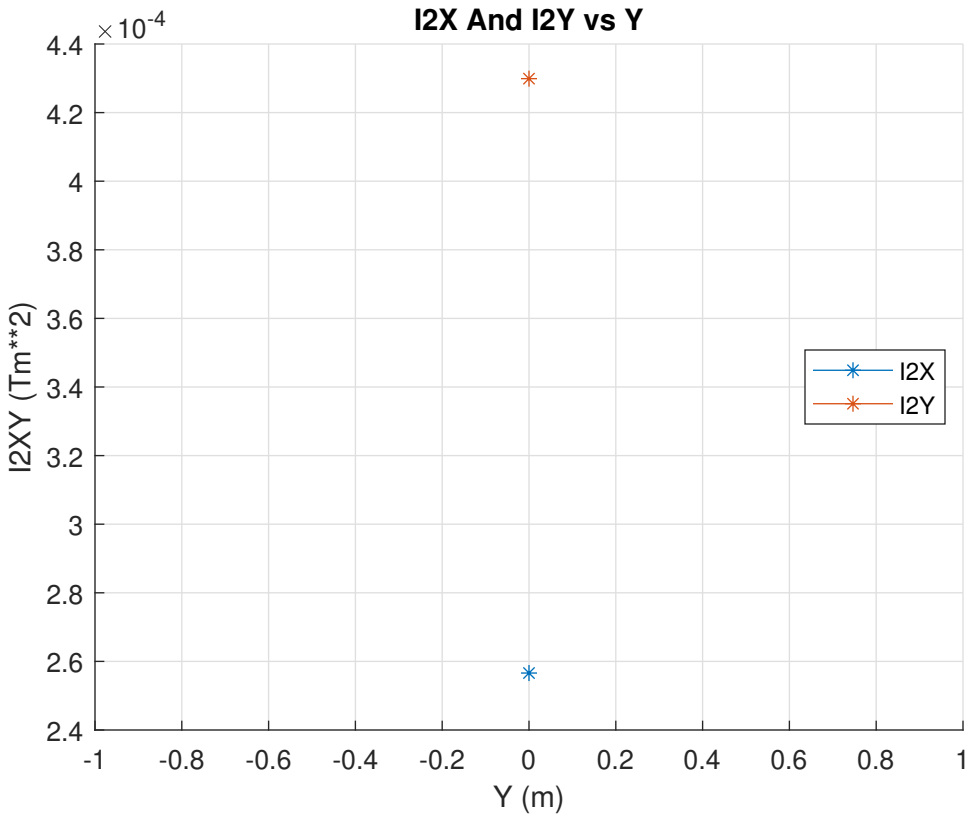

Abs By vs X At Field Peaks
Scaled Abs By + Peak Num (T)
15
10
5
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10-3
Mean Xctr = 0.033 mm

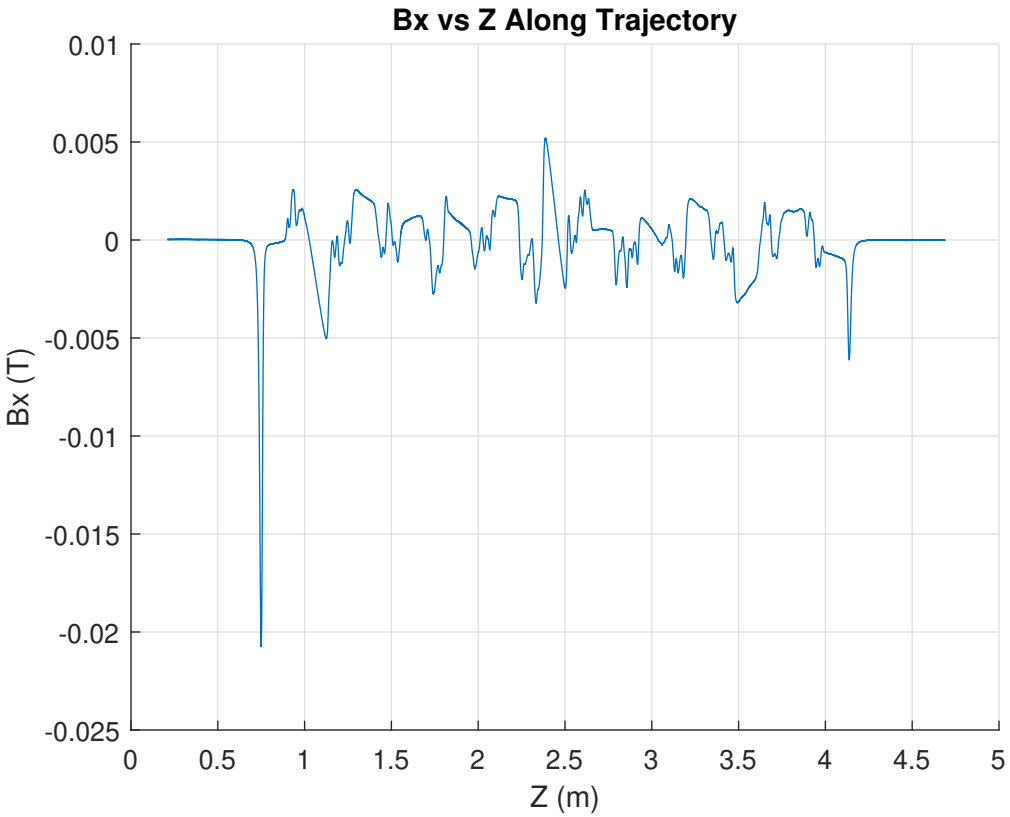

Abs By vs Y At Field Peaks
Scaled Abs By + Peak Num (T)
Y (m)
Mean Yctr = 0.000 mm
0
2
4
6
8
10
12
14
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

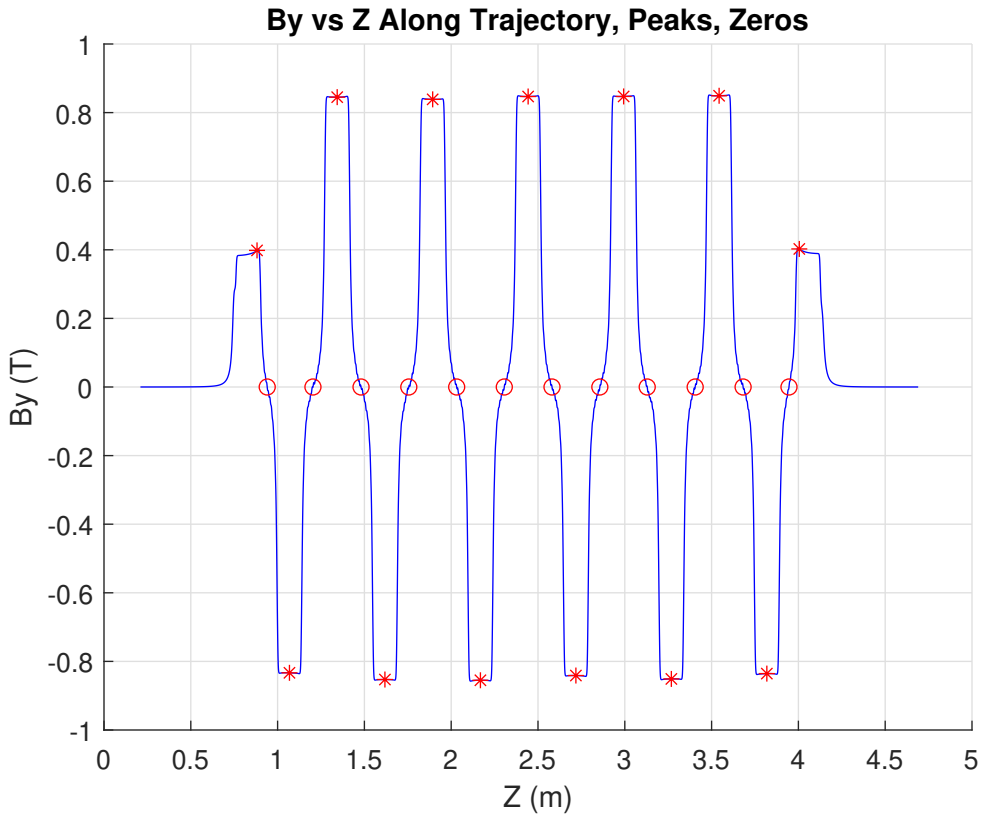

I1X And I1Y vs X
×10-5
20
15
10
5
0
-5
I1XY (Tm)
I1X
I1Y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10-3

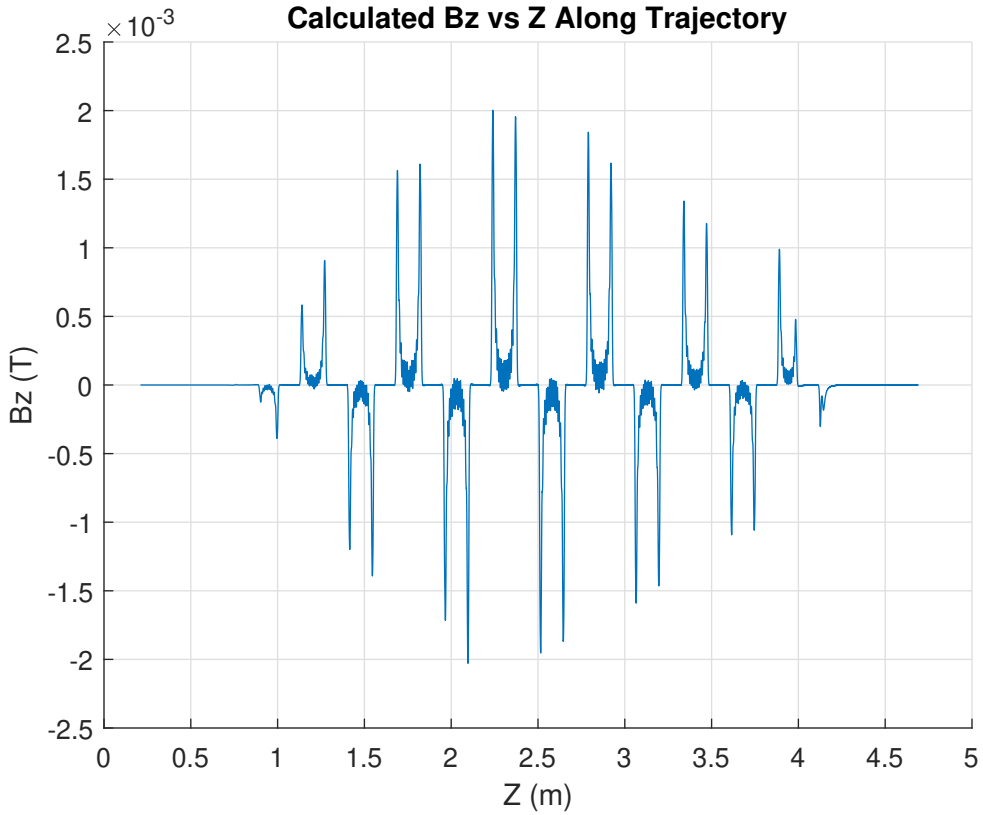

I2X And I2Y vs X
×10^-4
5
4
3
2
1
0
-1
-2
-3
I2XY (Tm**2)
I2X
I2Y
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
X (m)
×10^-3

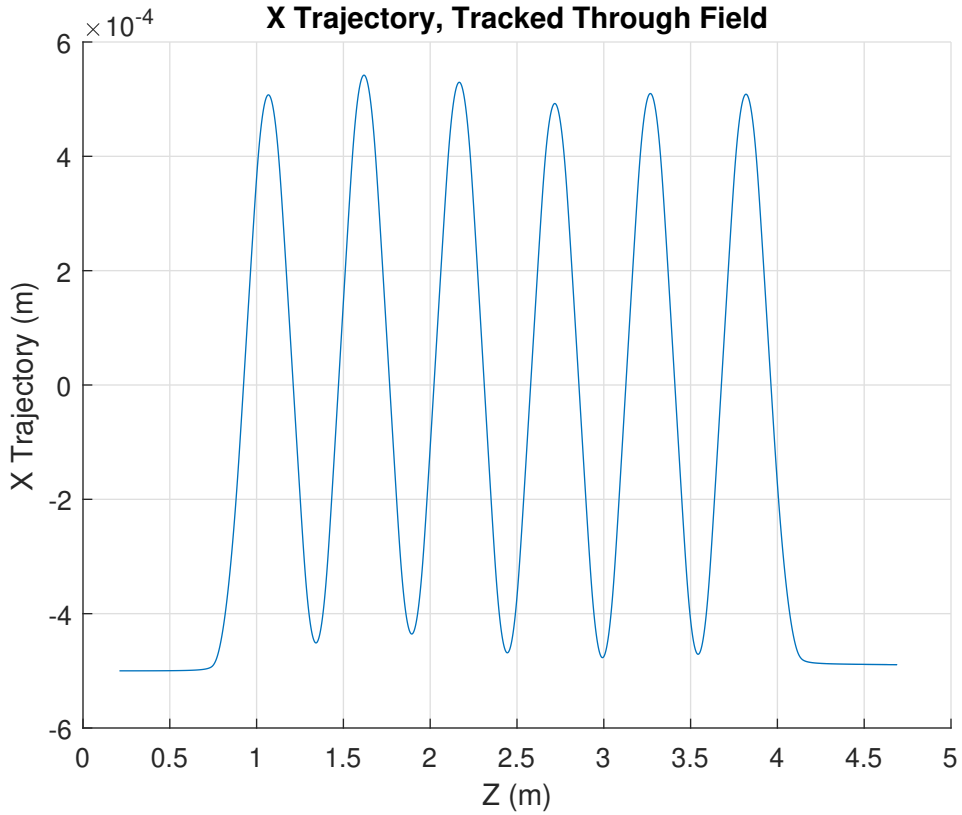

I1X And I1Y vs Y
×10^-4
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
I1XY (Tm)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Y (m)
I1X
I1Y

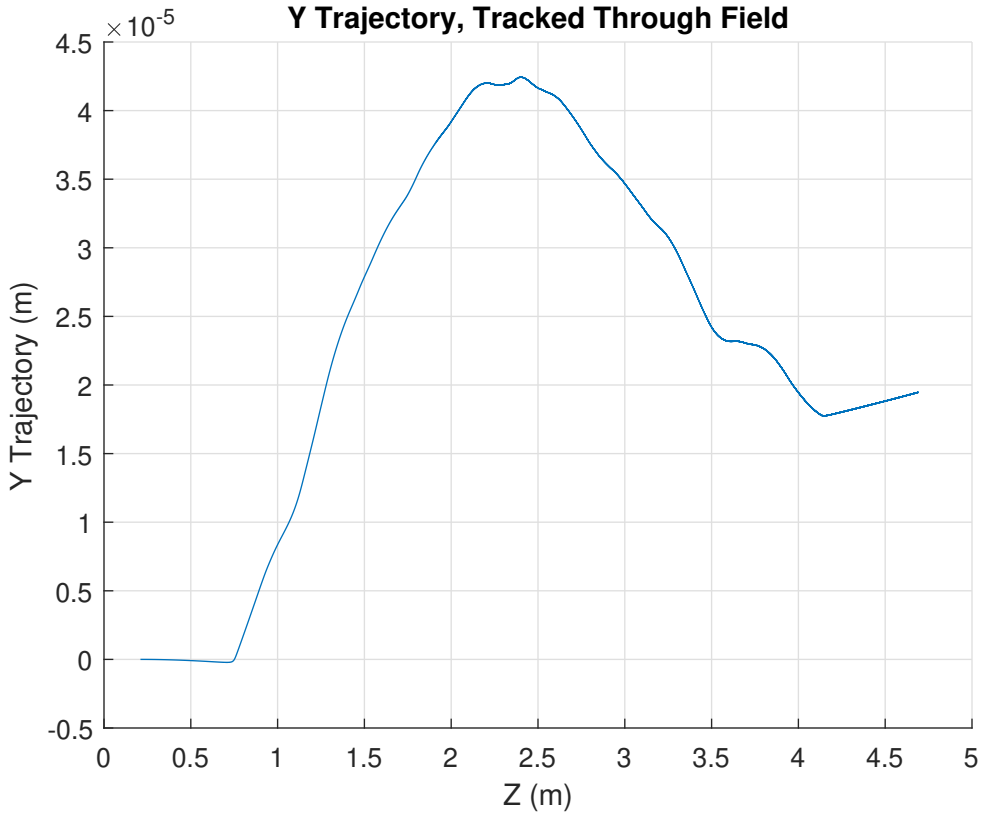

I2X And I2Y vs Y
×10^-4
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
I2XY (Tm**2)
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Y (m)
I2X
I2Y

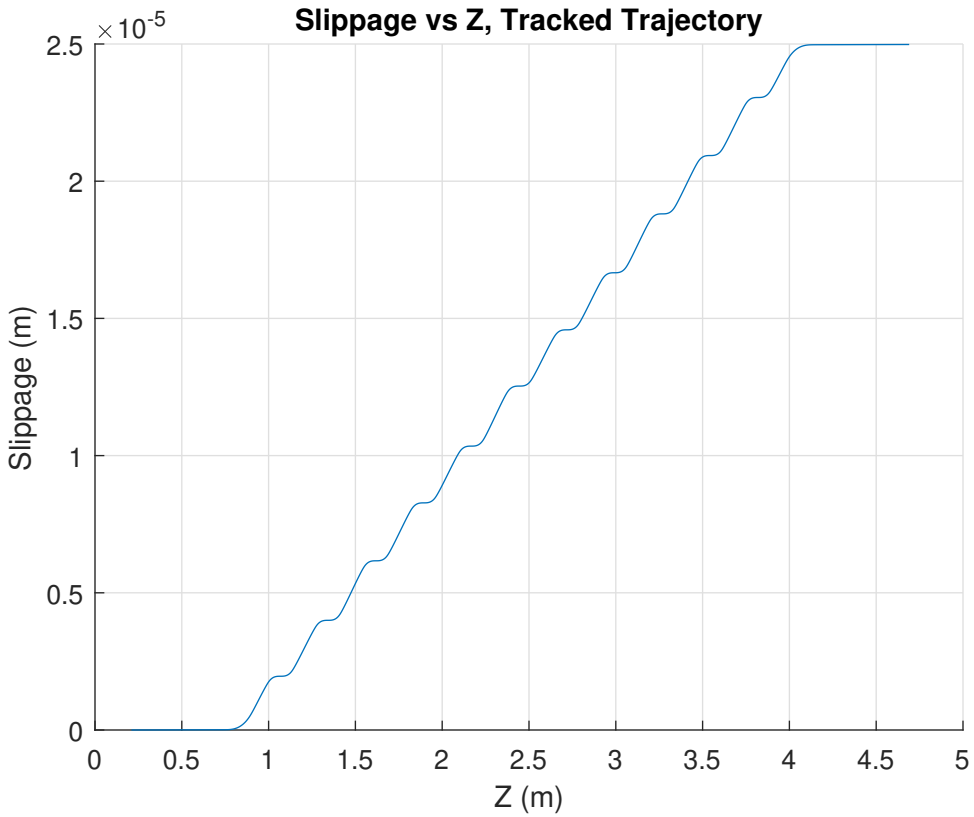

Bx vs Z Along Trajectory
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
Bx (T)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Z (m)

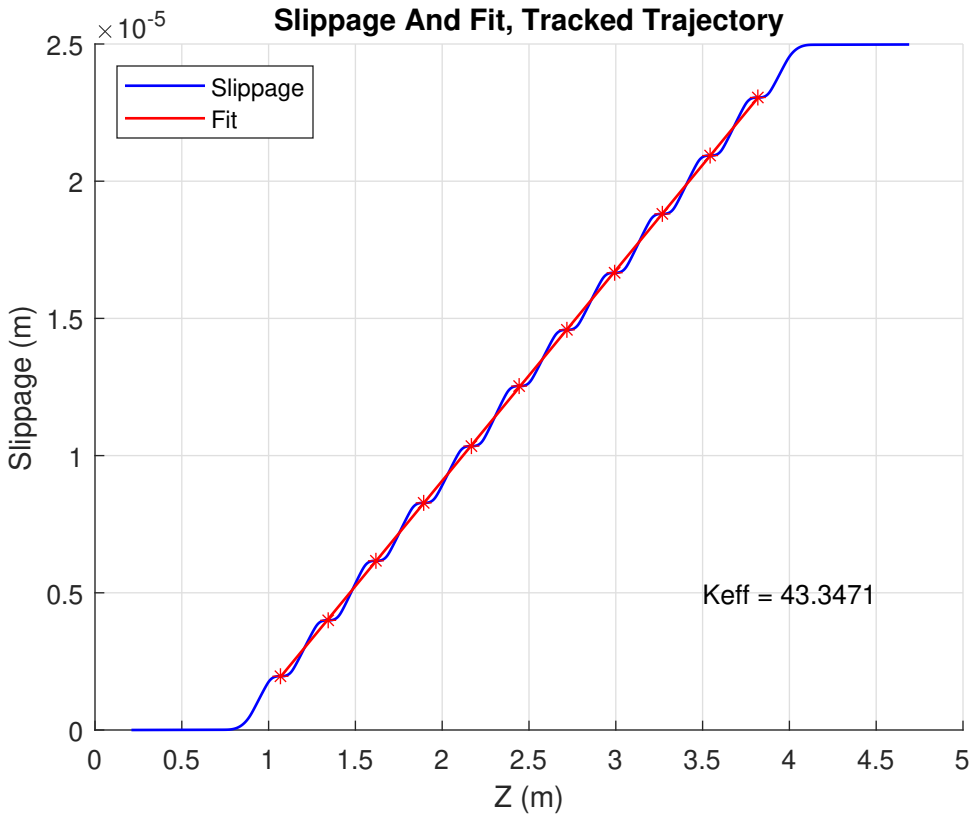

By vs Z Along Trajectory, Peaks, Zeros
By (T)
Z (m)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5


Calculated Bz vs Z Along Trajectory
×10-3
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^-5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
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 = 43.3471
Slippage (m)
Z (m)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5