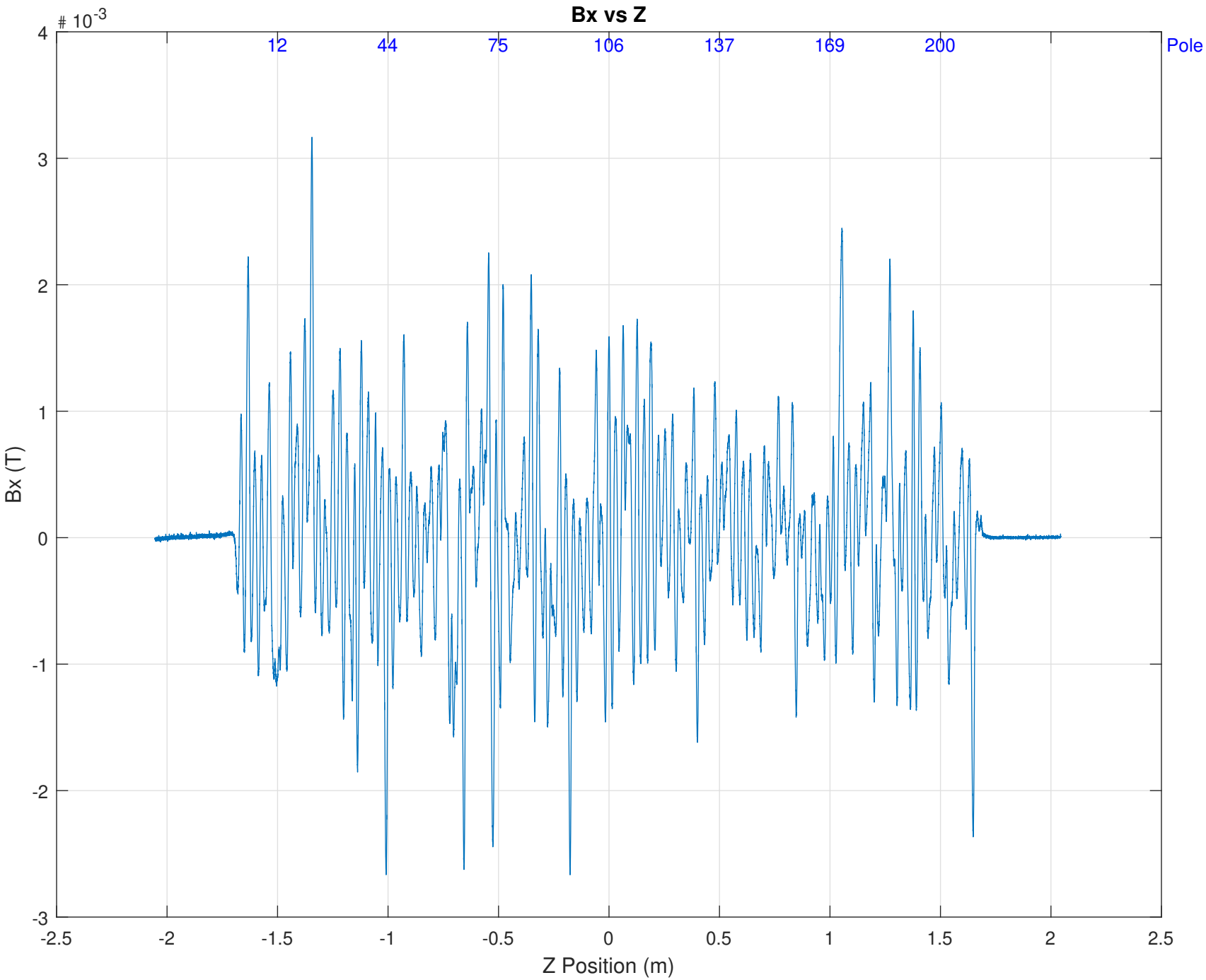
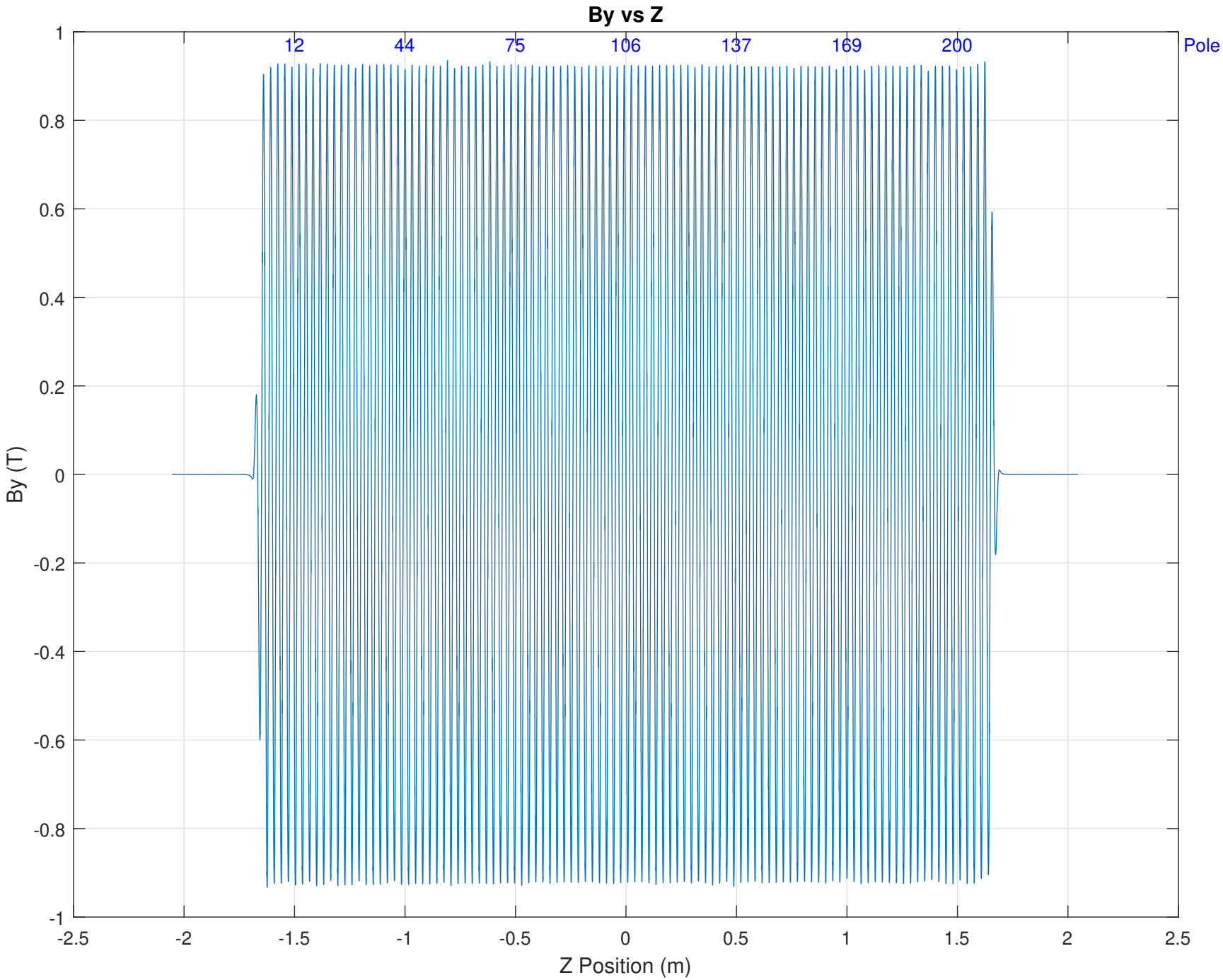
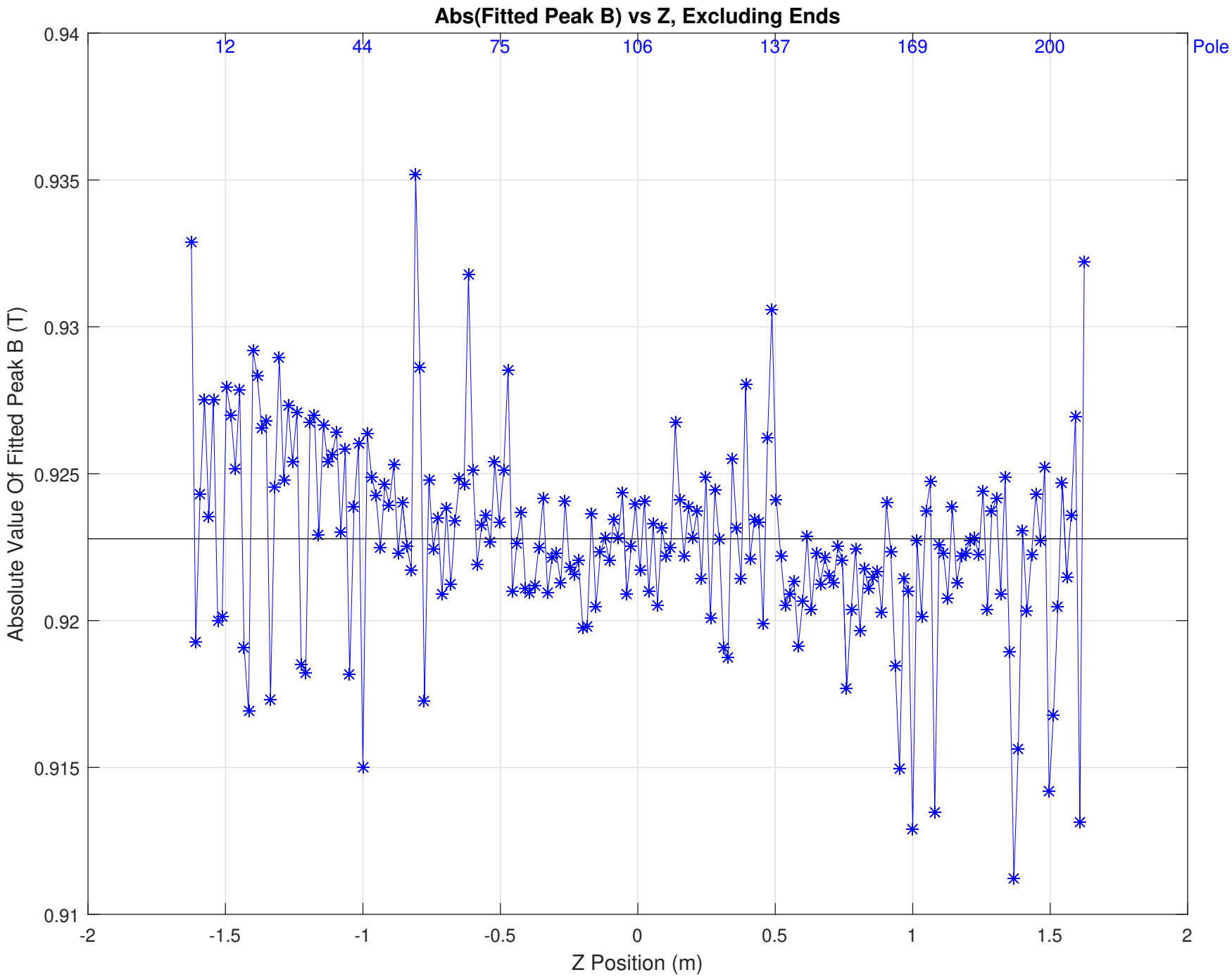
SLAC Magnetic Measurements

Planar Insertion Device Analysis

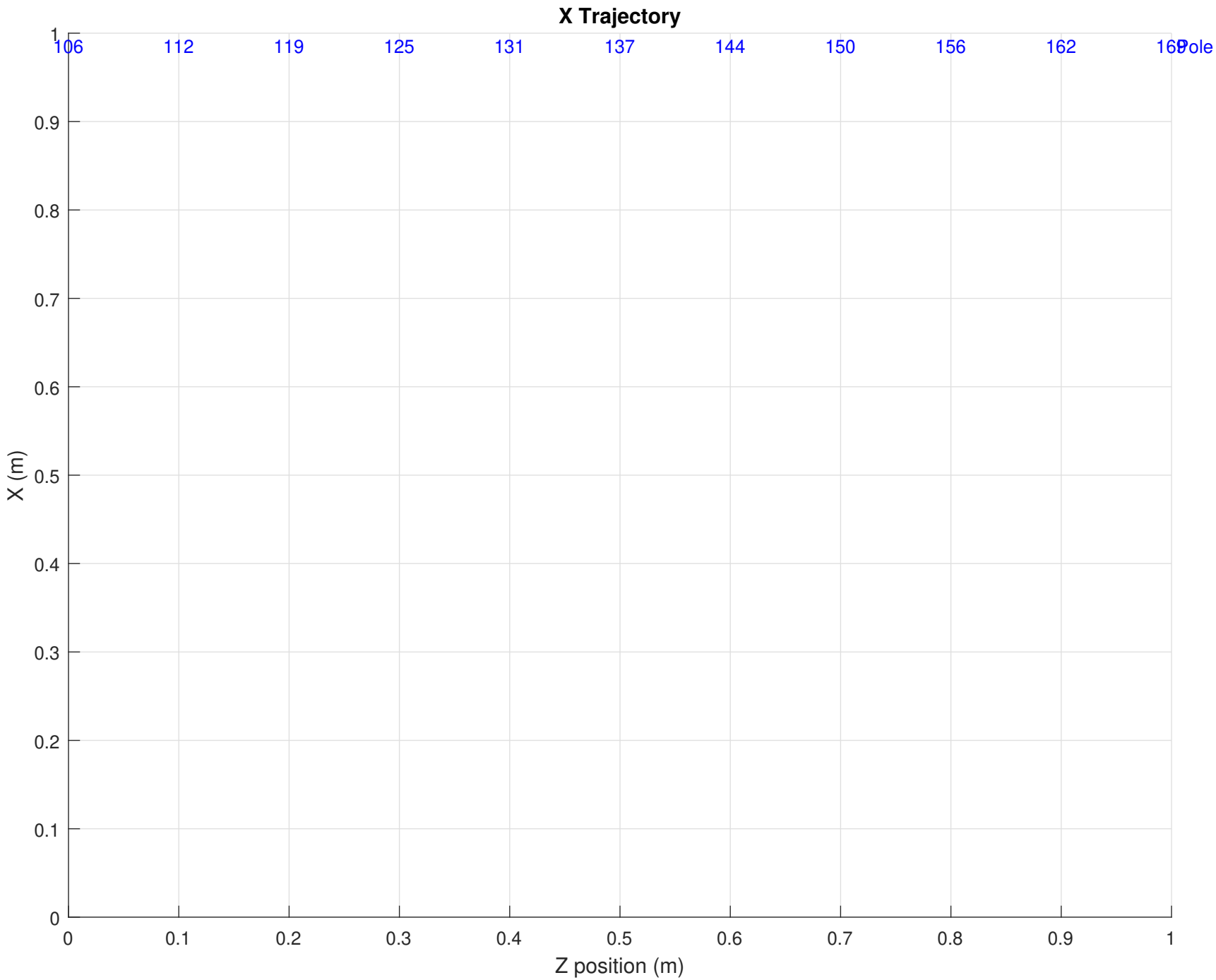
Parameters:
INPUT-FILE-DIR =c:\magdata\LCLS\Undulator\HXU-32\DATASET0001\Fine Tuning\Z Scans\Run 005\
INPUT-FILE-NAME =x+00000-y+000-bscanz.dat
INPUT-FILE-TYPE =ZVXYBXYH
CORR-REQUIRED =1
GAMMA =0
NOM-LAMBDA-U =0.032
NOM-K-VALUE =0
NOM-LAMBDA-R =Inf
NUM-POLES =212
NUM-END-POLES =4
CELL-LENGTH =3.656

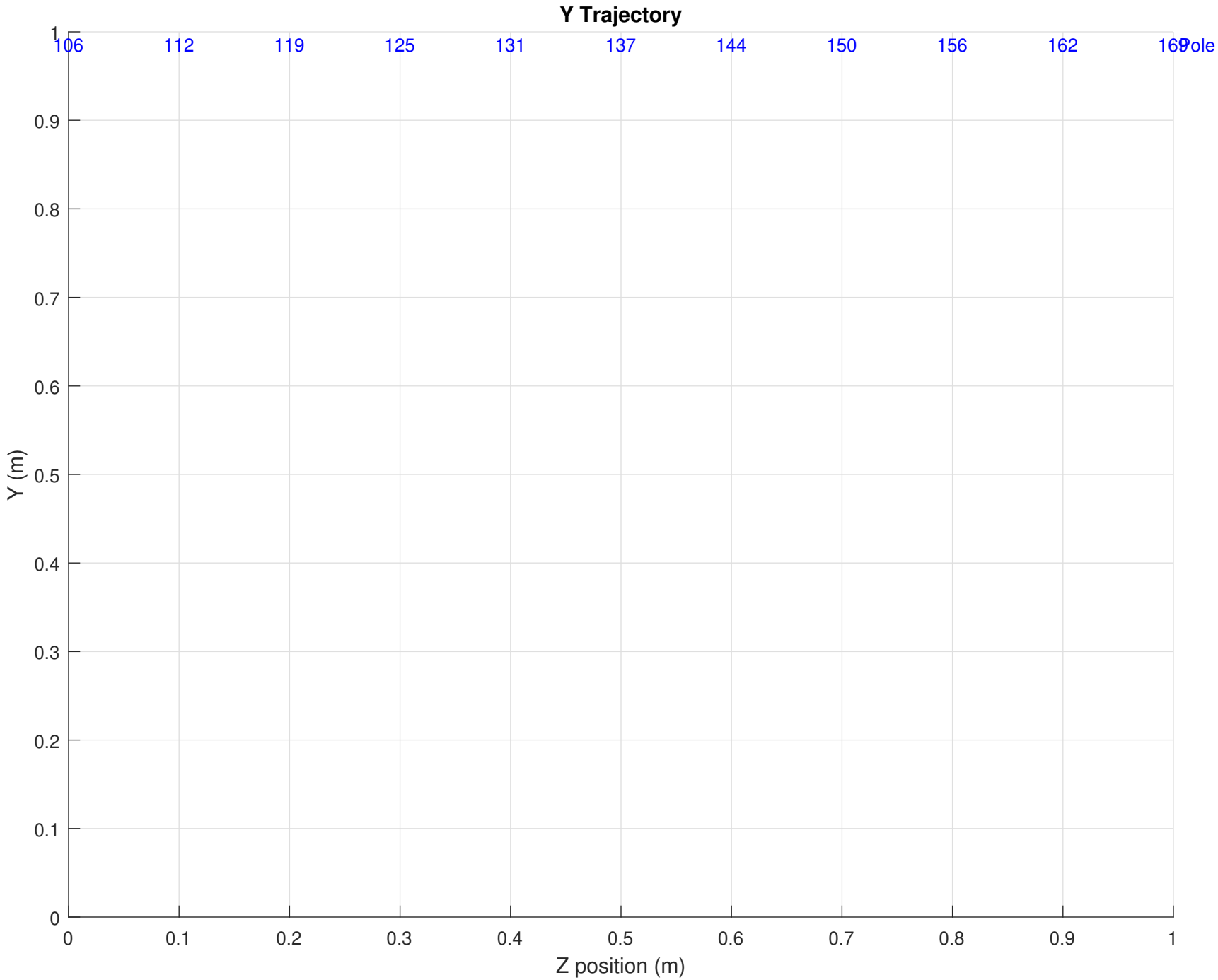

Bx vs Z
10^-3
4
3
2
1
0
-1
-2
-3
12
44
75
106
137
169
200
Pole
Bx (T)
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
Z Position (m)


By vs Z
12
44
75
106
137
169
200
Pole
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
By (T)
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
Z Position (m)



Peak Fields: Ave = 0.922784 T, RMS = 0.003400 T


X Trajectory
106
112
119
125
131
137
144
150
156
162
169
Pole
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
X (m)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Z position (m)


Y Trajectory
106
112
119
125
131
137
144
150
156
162
169
Pole
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Y (m)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Z position (m)