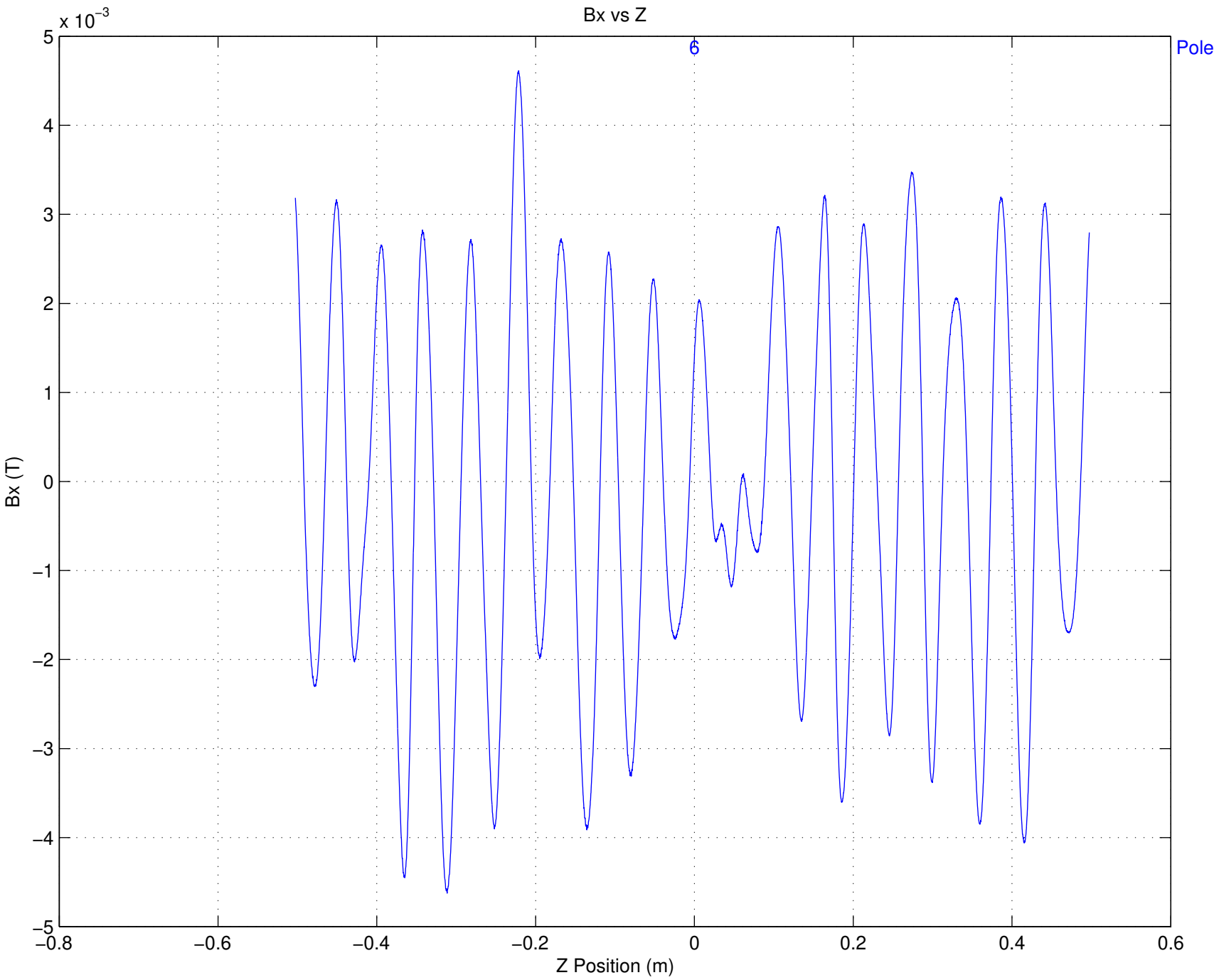
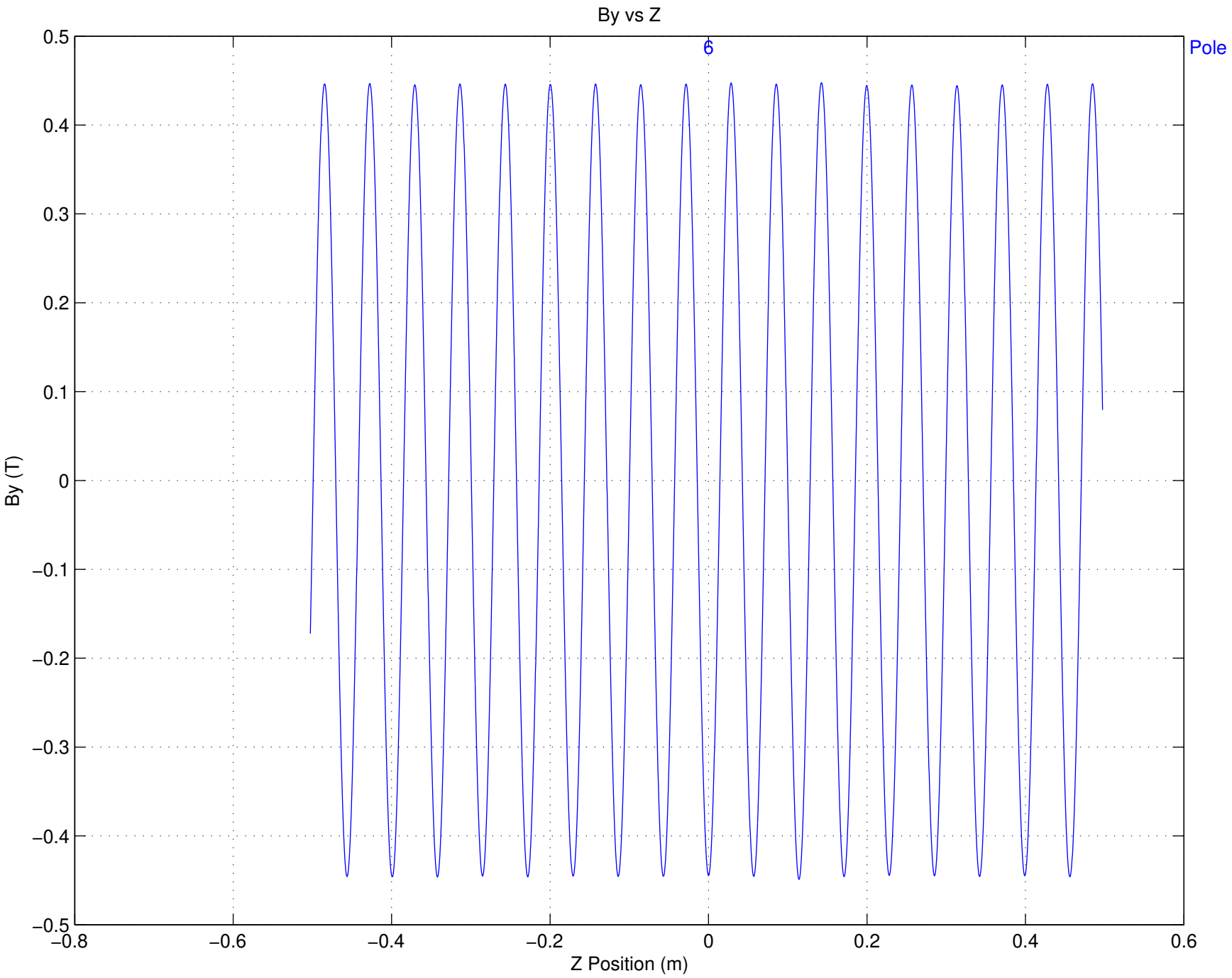
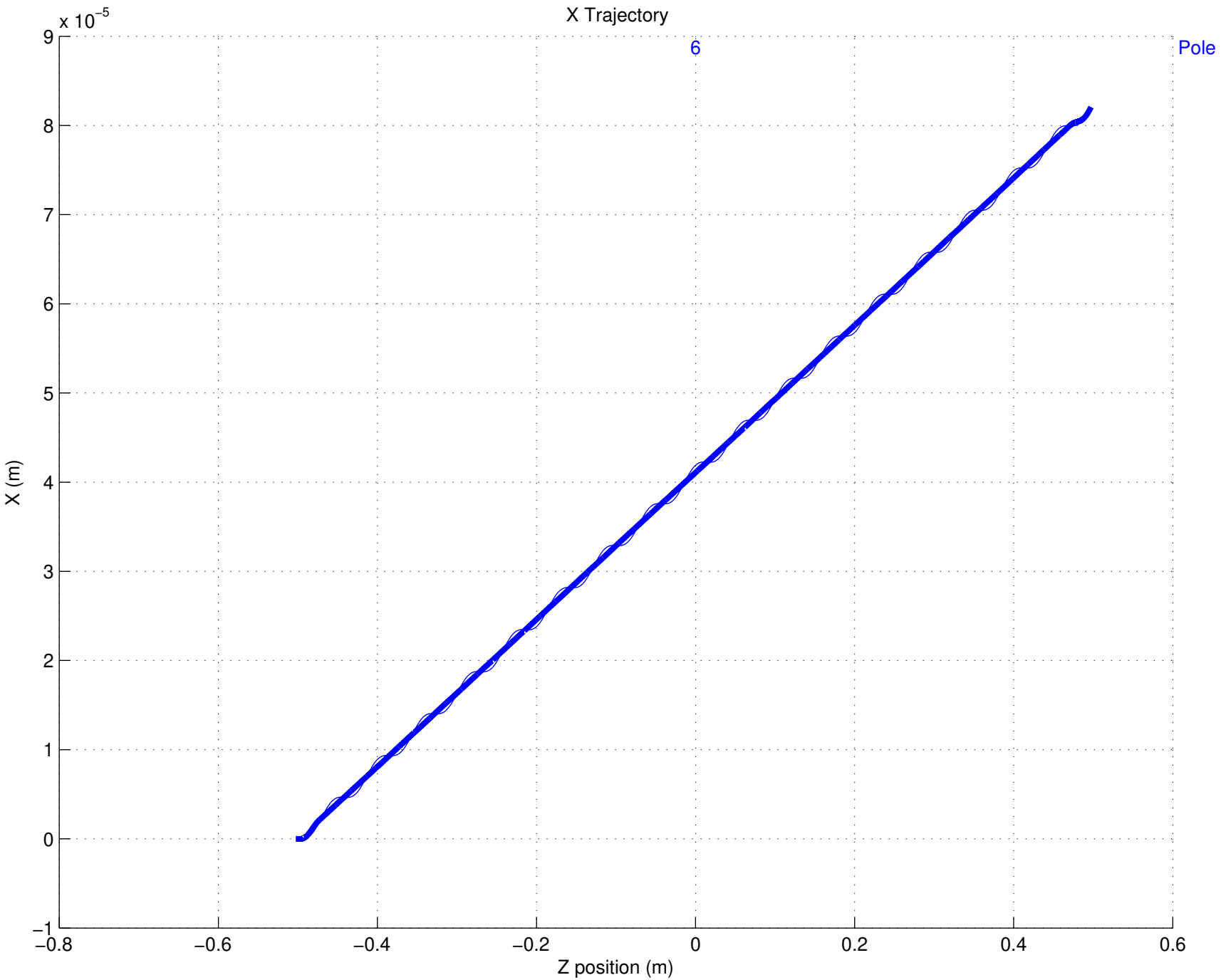
SLAC Magnetic Measurements

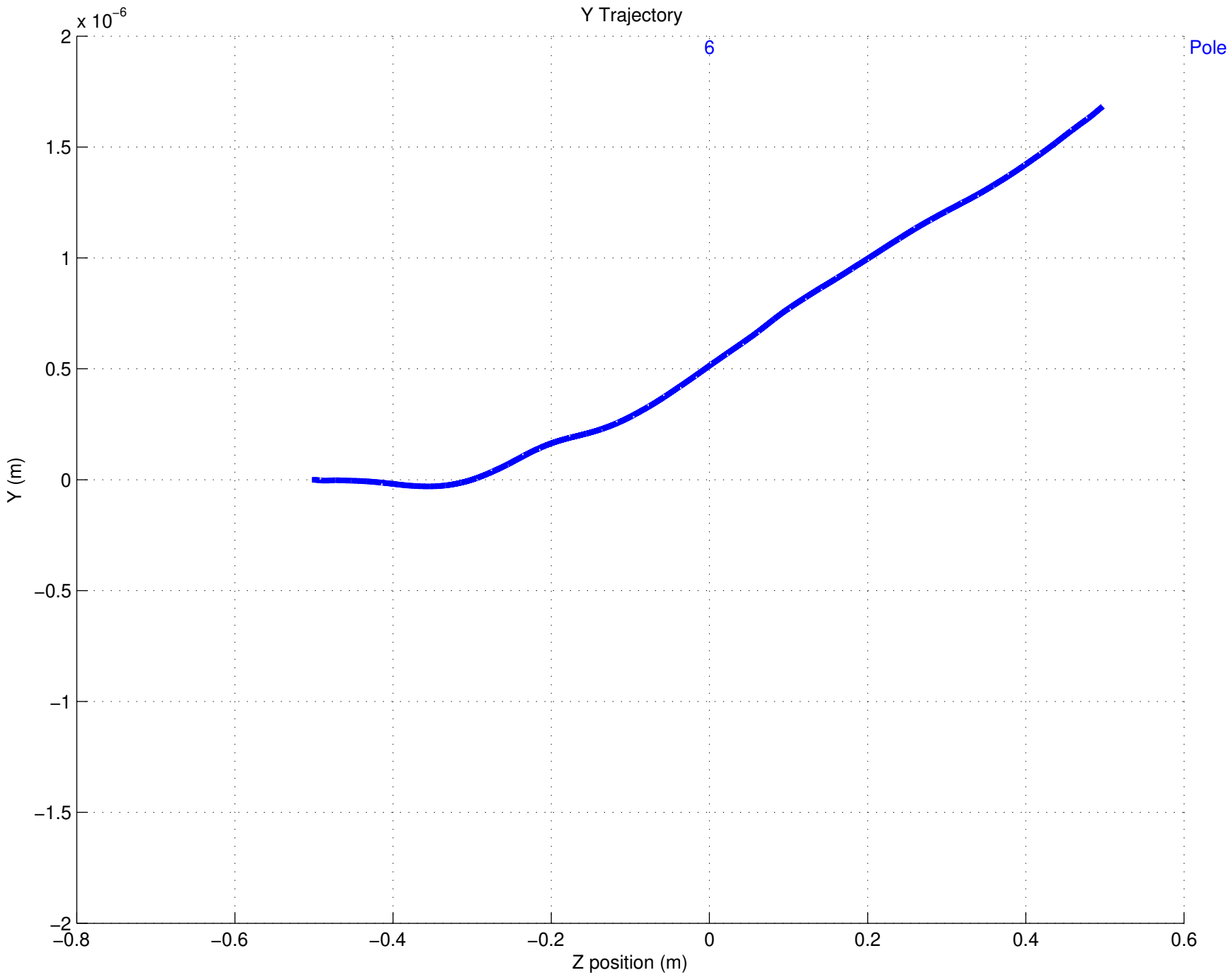
Planar Insertion Device Analysis

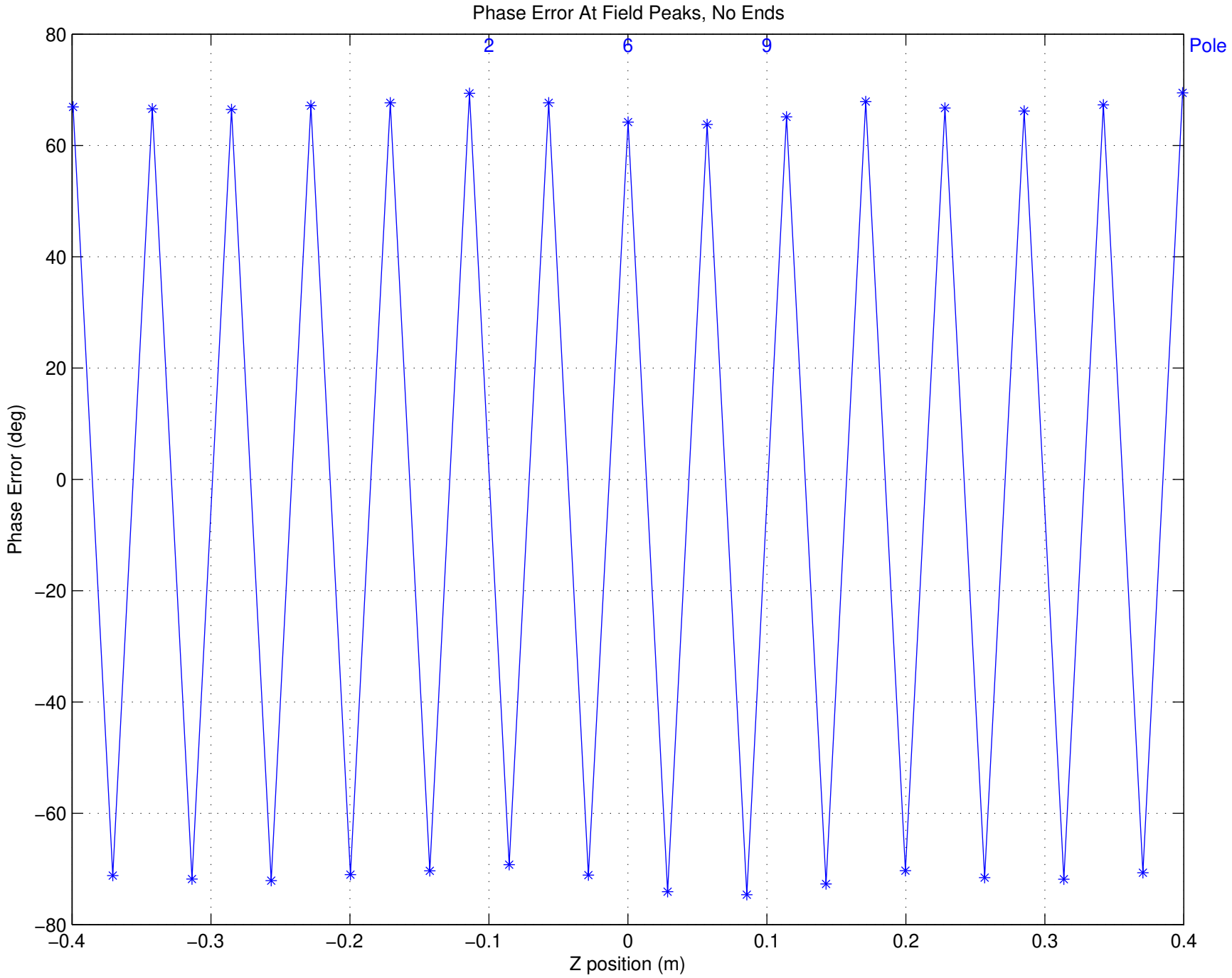
Parameters:
INPUT−FILE−DIR =S:\MagData\LCLS\Undulator\EPU\DATASET0001\Rough Tuning\Z Scans\Run 118\
INPUT−FILE−NAME =x+00000−y+000−bscanz.dat
INPUT−FILE−TYPE =ZVXYBXYH
CORR−REQUIRED =1
GAMMA =26686.34
NOM−LAMBDA−U =0.0569
NOM−K−VALUE =2.348
NOM−LAMBDA−R =1.5007e−010
NUM−POLES =11
NUM−END−POLES =3
CELL−LENGTH =3.6985


Bx vs Z
x 10^-3
5
4
3
2
1
0
−1
−2
−3
−4
−5
Bx (T)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z Position (m)
6
Pole


By vs Z
6
Pole
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
By (T)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z Position (m)


X Trajectory
x 10^-5
9
8
7
6
5
4
3
2
1
0
−1
X (m)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z position (m)
6
Pole


Y Trajectory
x 10^-6
6
Pole
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
Y (m)
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
Z position (m)



Phase Error: Ave = −0.000000 deg, RMS = 70.415089 deg