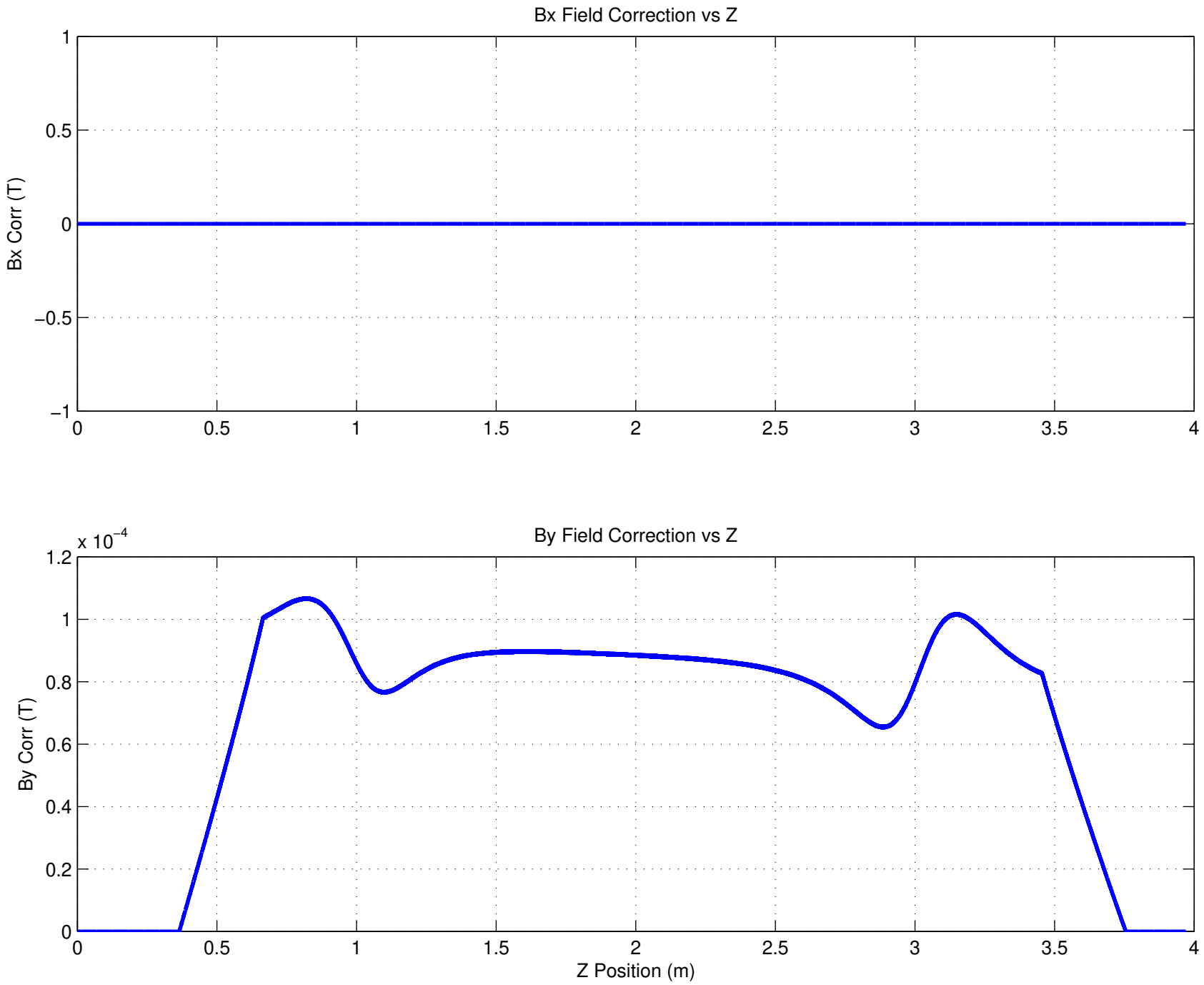
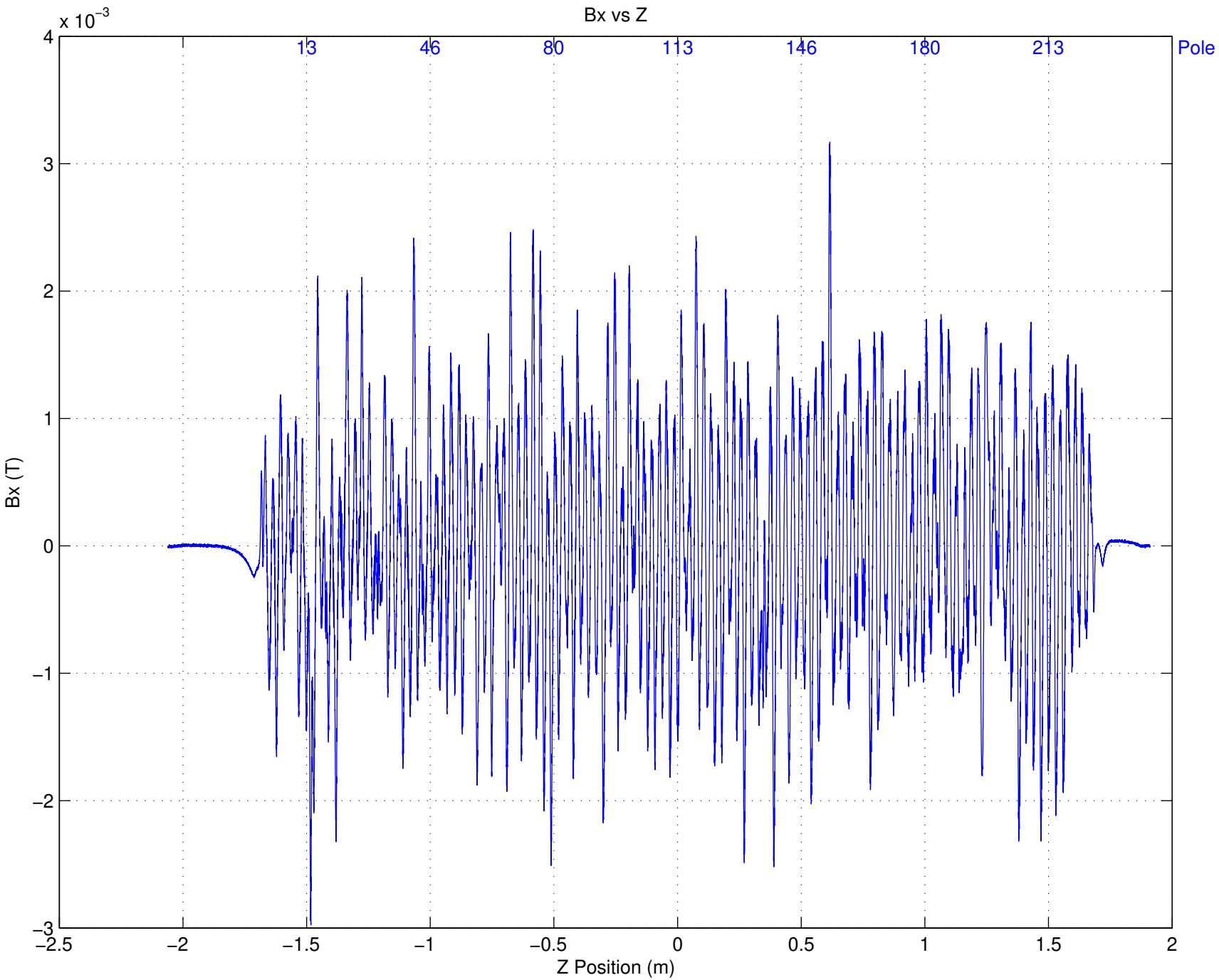
SLAC Magnetic Measurements

Planar Insertion Device Analysis

Parameters:
INPUT−FILE−DIR =S:\Magdata\Lcls\Undulator\L143−112000−23\DATASET0001\Rough Tuning\Z Scans\Run 010\
INPUT−FILE−NAME =x+00000−y+000−bscanz.dat
INPUT−FILE−TYPE =ZVXYBXYH
CORR−REQUIRED =1
GAMMA =26625.06
NOM−LAMBDA−U =0.03
NOM−K−VALUE =3.4853
NOM−LAMBDA−R =1.4968e−010
NUM−POLES =226
NUM−END−POLES =4
CELL−LENGTH =3.656


Bx Field Correction vs Z
Bx Corr (T)
1
0.5
0
−0.5
−1
0
0.5
1
1.5
2
2.5
3
3.5
4
By Field Correction vs Z
x 10^−4
By Corr (T)
1.2
1
0.8
0.6
0.4
0.2
0
Z Position (m)


Bx vs Z
x 10^-3
4
3
2
1
0
−1
−2
−3
13
46
80
113
146
180
213
Pole
Bx (T)
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
Z Position (m)