SLAC Magnetic Measurements

Hall Probe Array Analysis
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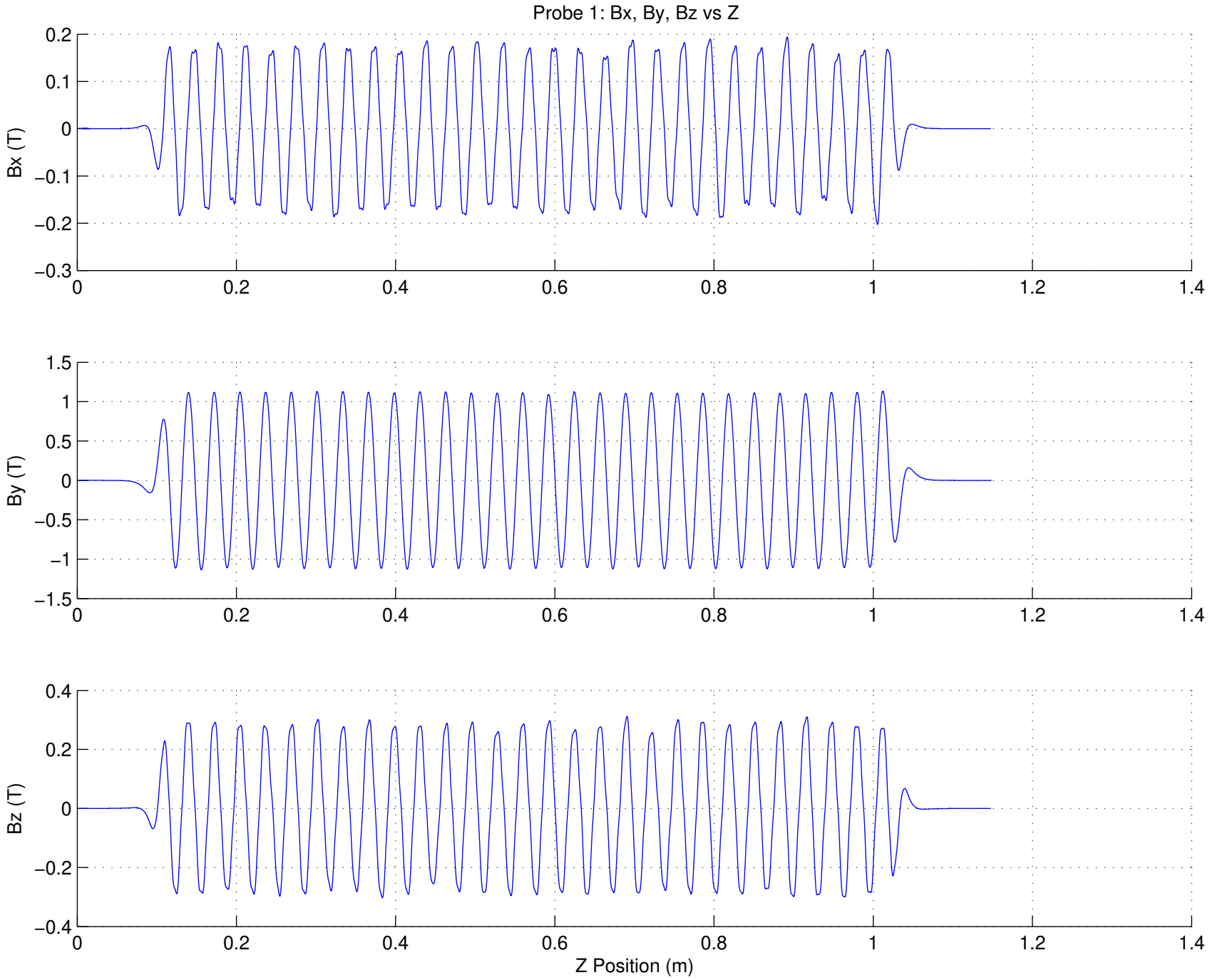
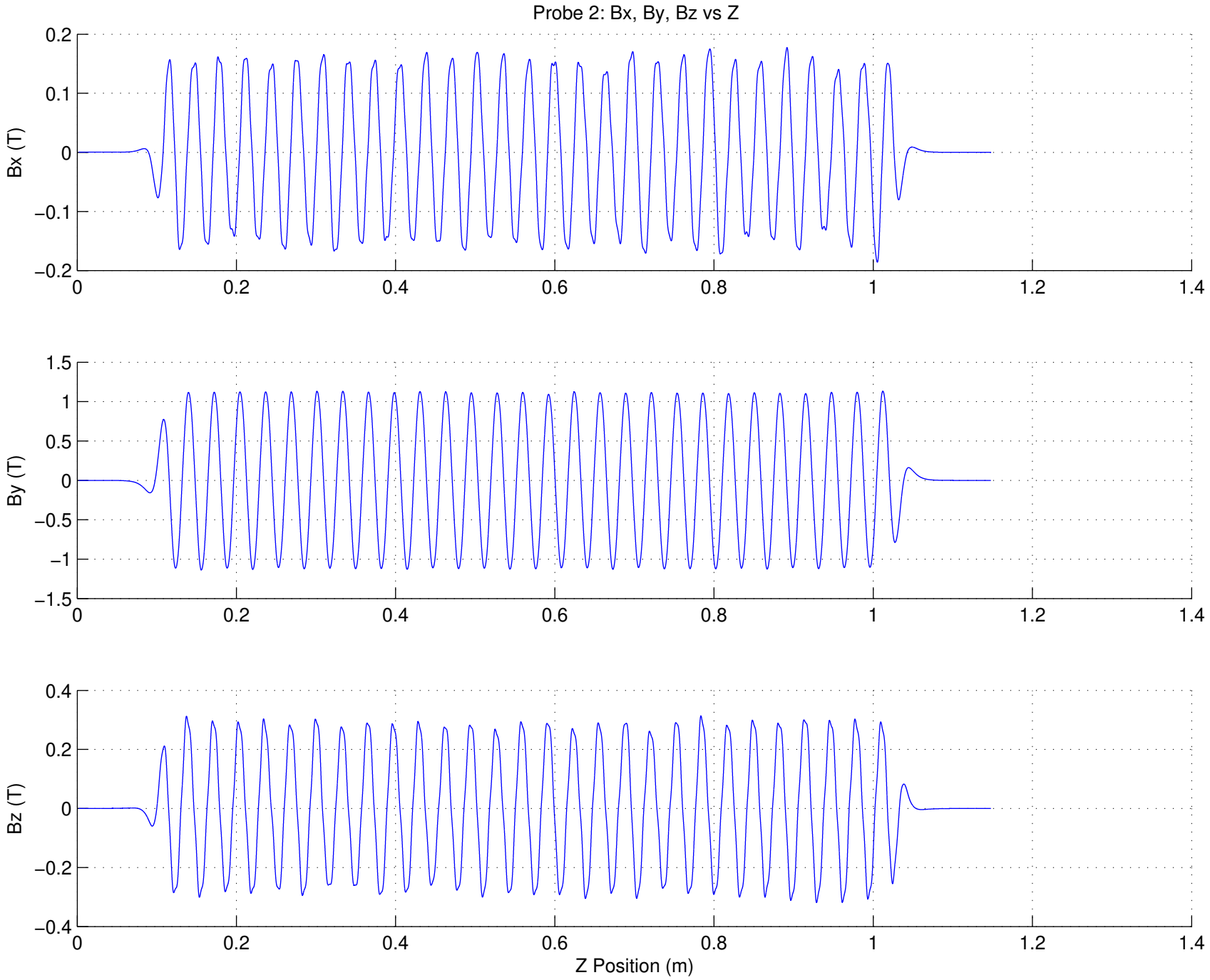
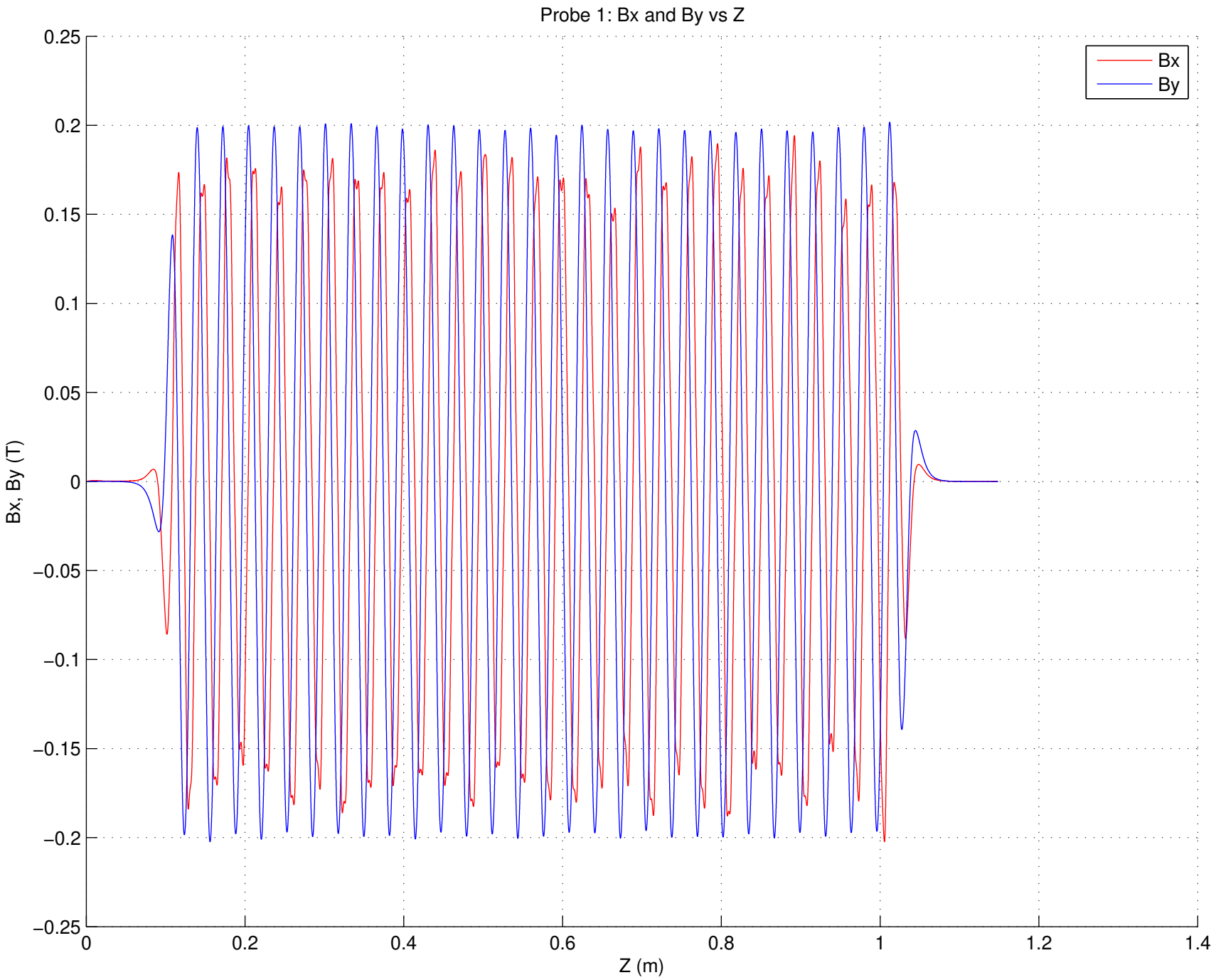
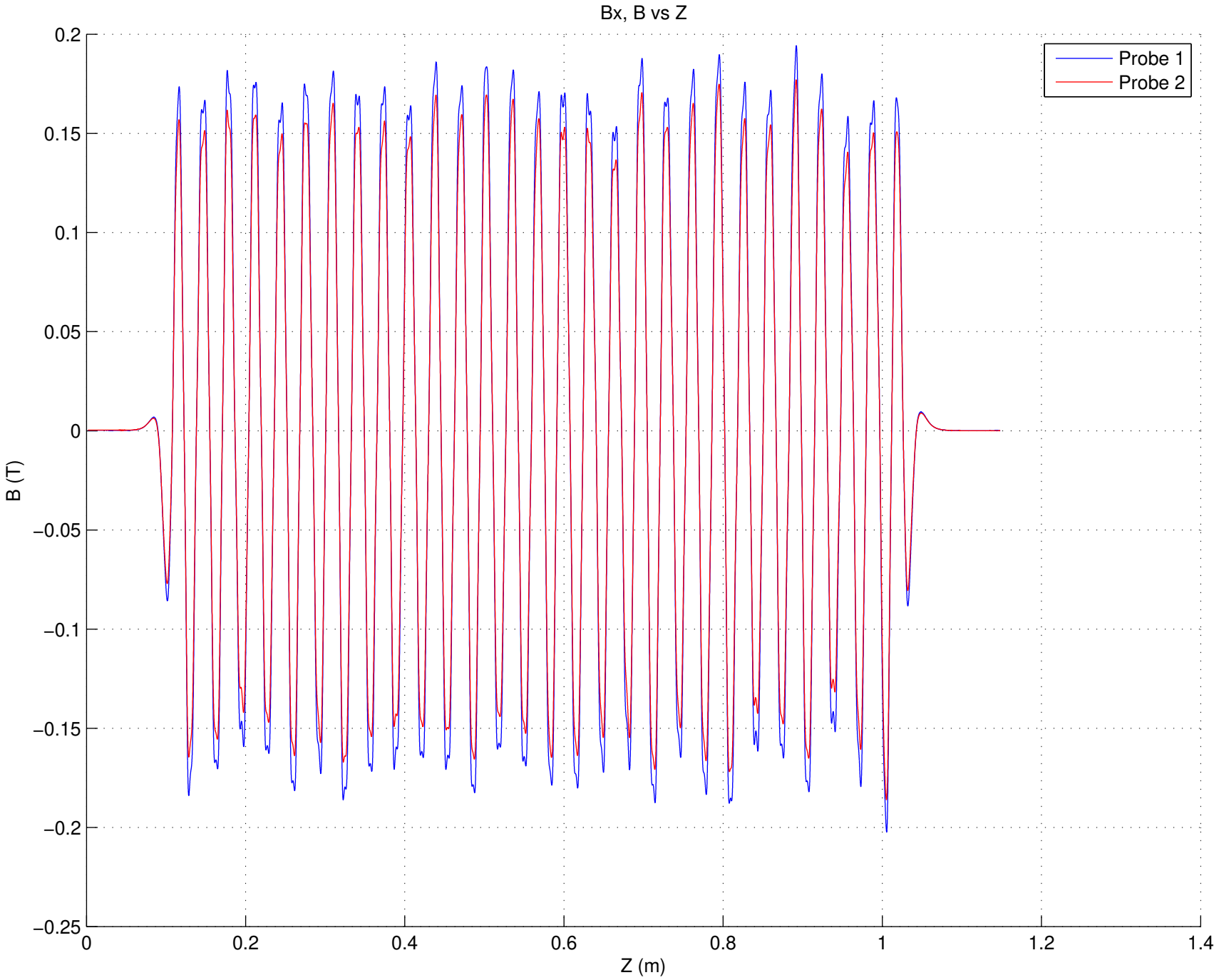
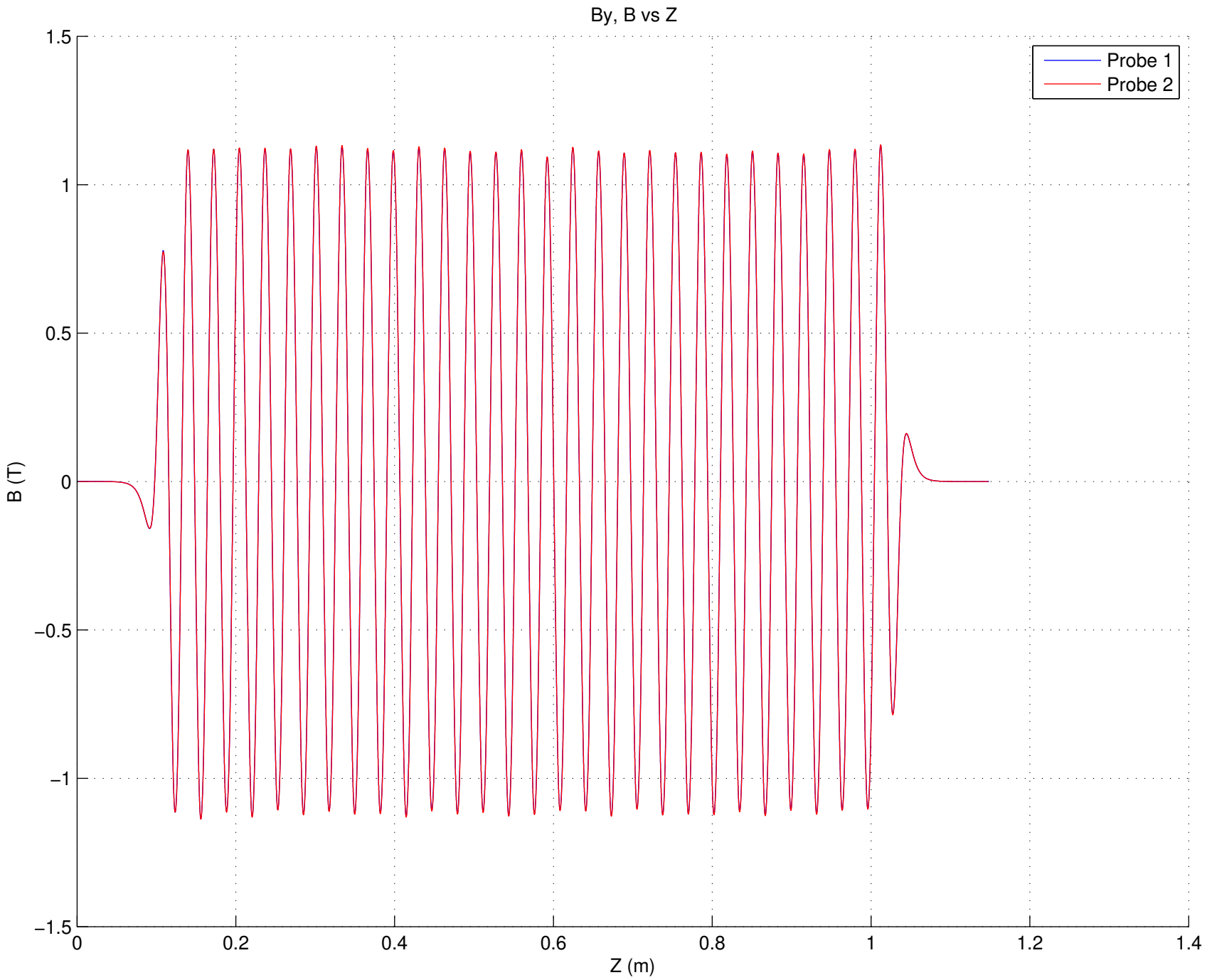
Parameters:
INPUT−FILE−DIR =s:\MagData\LCLS\Undulator\DELTA\Data\Run 403\
INPUT−FILE−NAME =DUTestOutput.dat
INPUT−FILE−TYPE =ZVXYZVXYZH
UND−POL−MODE =LIN−POL−VERT−FIELD
PROBE1−BX−CALIB−FILE =v:\MET\MagServe\MagData\LCLS\Hall probe\SENIS−119−12\SENIS−119−12−X.ini
PROBE1−BY−CALIB−FILE =v:\MET\MagServe\MagData\LCLS\Hall probe\SENIS−119−12\SENIS−119−12−Y.ini
PROBE2−BX−CALIB−FILE =v:\MET\MagServe\MagData\LCLS\Hall probe\SENIS−120−12\SENIS−120−12−X.ini
PROBE2−BY−CALIB−FILE =v:\MET\MagServe\MagData\LCLS\Hall probe\SENIS−120−12\SENIS−120−12−Y.ini
NUM−ZERO−GAUSS−MEAS =200
PROBE2−OFFSET−DIR =Y

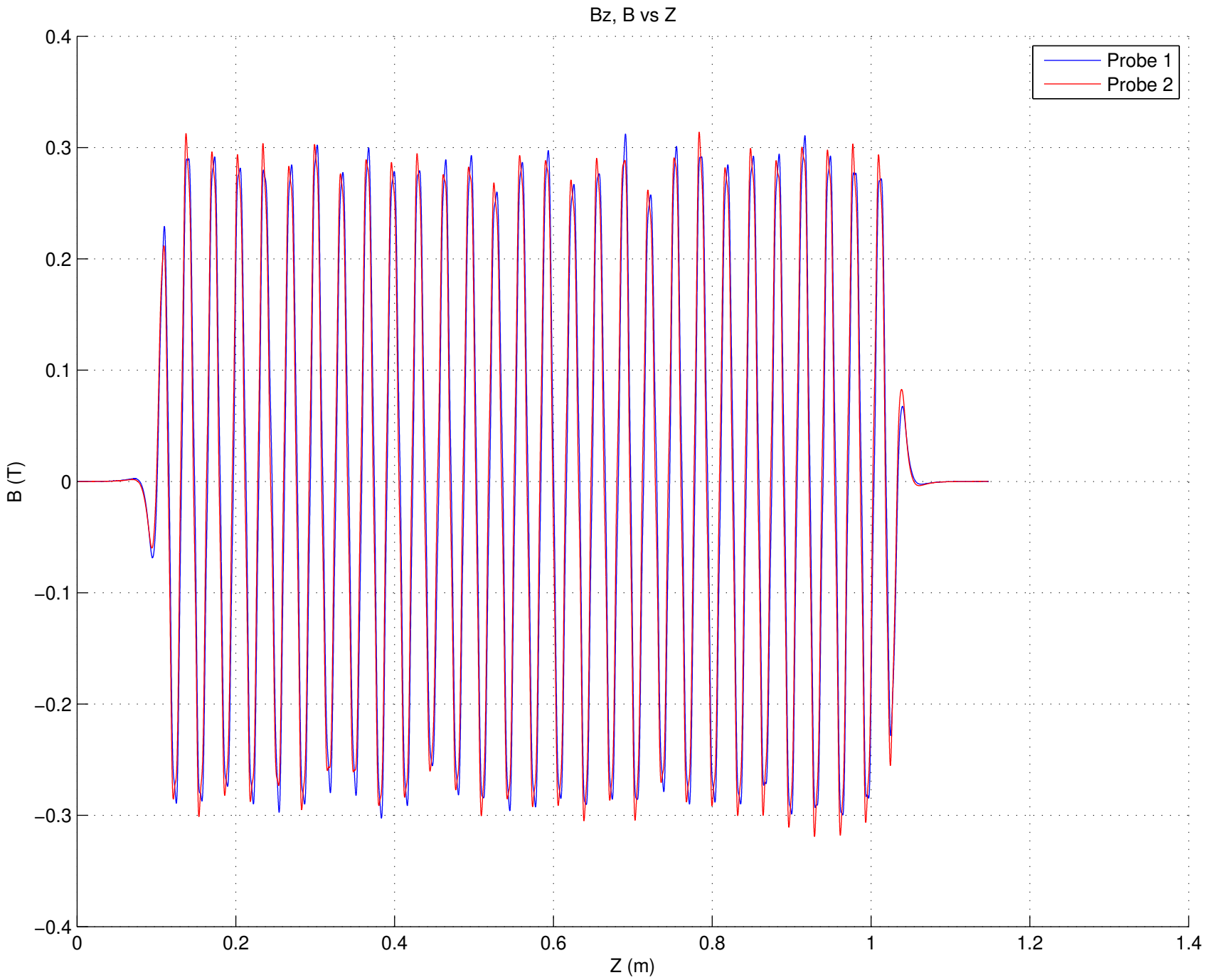

Probe 1: Bx, By, Bz vs Z
Bx (T)
By (T)
Bz (T)
Z Position (m)
0.2
0.1
0
−0.1
−0.2
−0.3
1.5
1
0.5
0
−0.5
−1
−1.5
0.4
0.2
0
−0.2
−0.4
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Probe 2: Bx, By, Bz vs Z
Bx (T)
0.2
0.1
0
−0.1
−0.2
By (T)
1.5
1
0.5
0
−0.5
−1
−1.5
Bz (T)
0.4
0.2
0
−0.2
−0.4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
Z Position (m)


Probe 1: Bx and By vs Z
Bx
By
Bx, By (T)
Z (m)
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Bx, B vs Z
Probe 1
Probe 2
B (T)
Z (m)
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
0
0.2
0.4
0.6
0.8
1
1.2
1.4


By, B vs Z
Probe 1
Probe 2
B (T)
Z (m)
1.5
1
0.5
0
−0.5
−1
−1.5
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Bz, B vs Z
Probe 1
Probe 2
B (T)
Z (m)
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
0
0.2
0.4
0.6
0.8
1
1.2
1.4