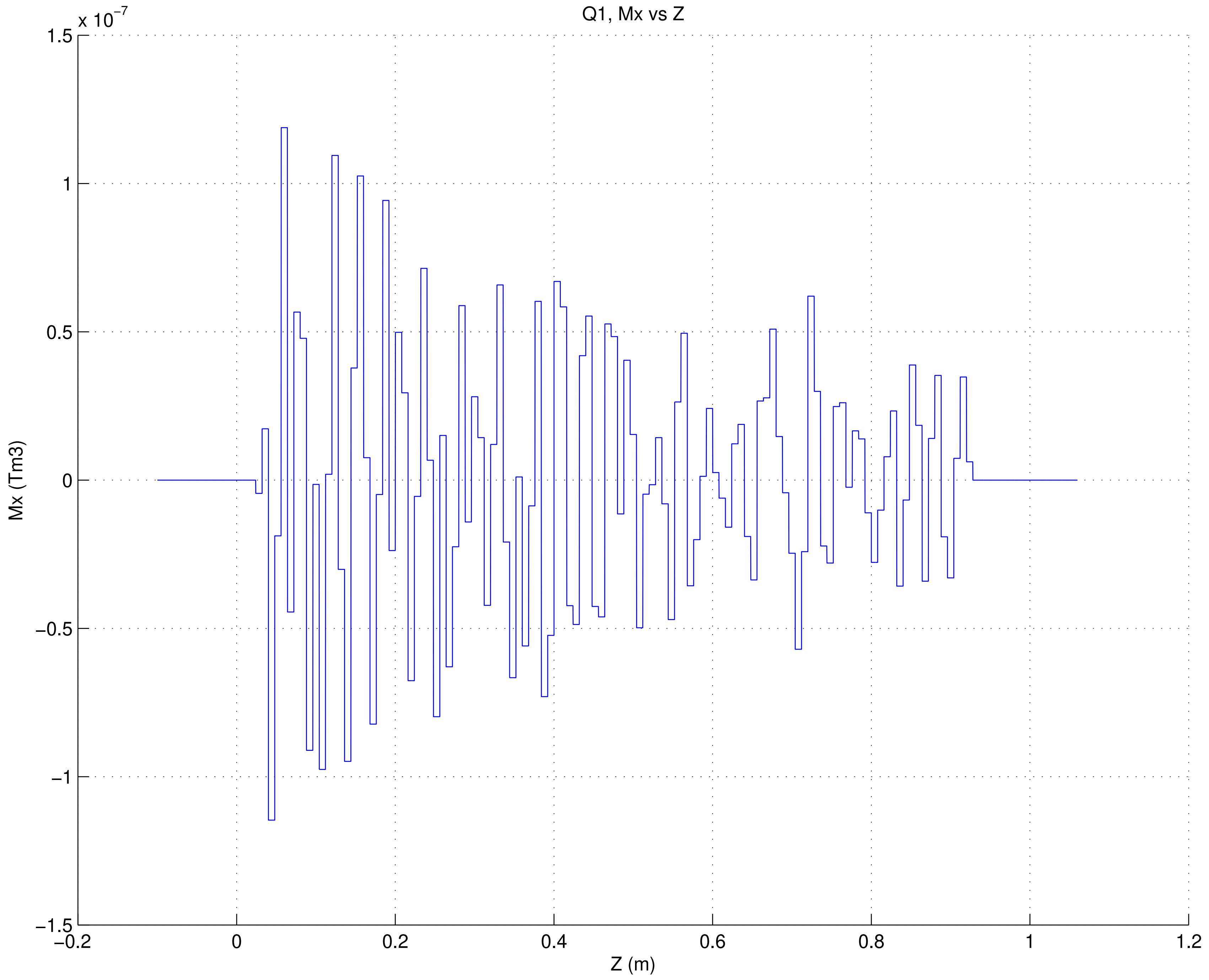
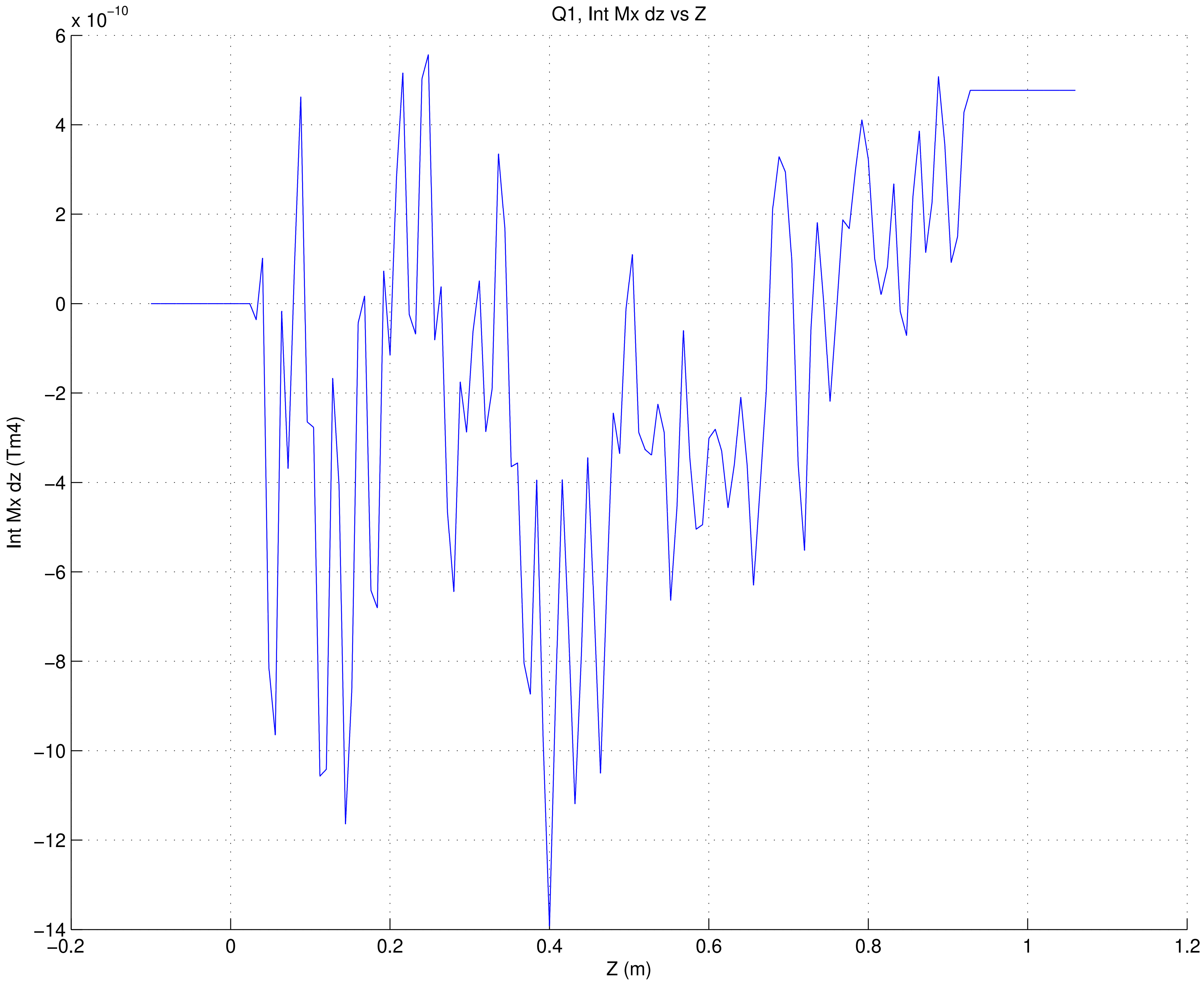
SLAC Magnetic Measurements

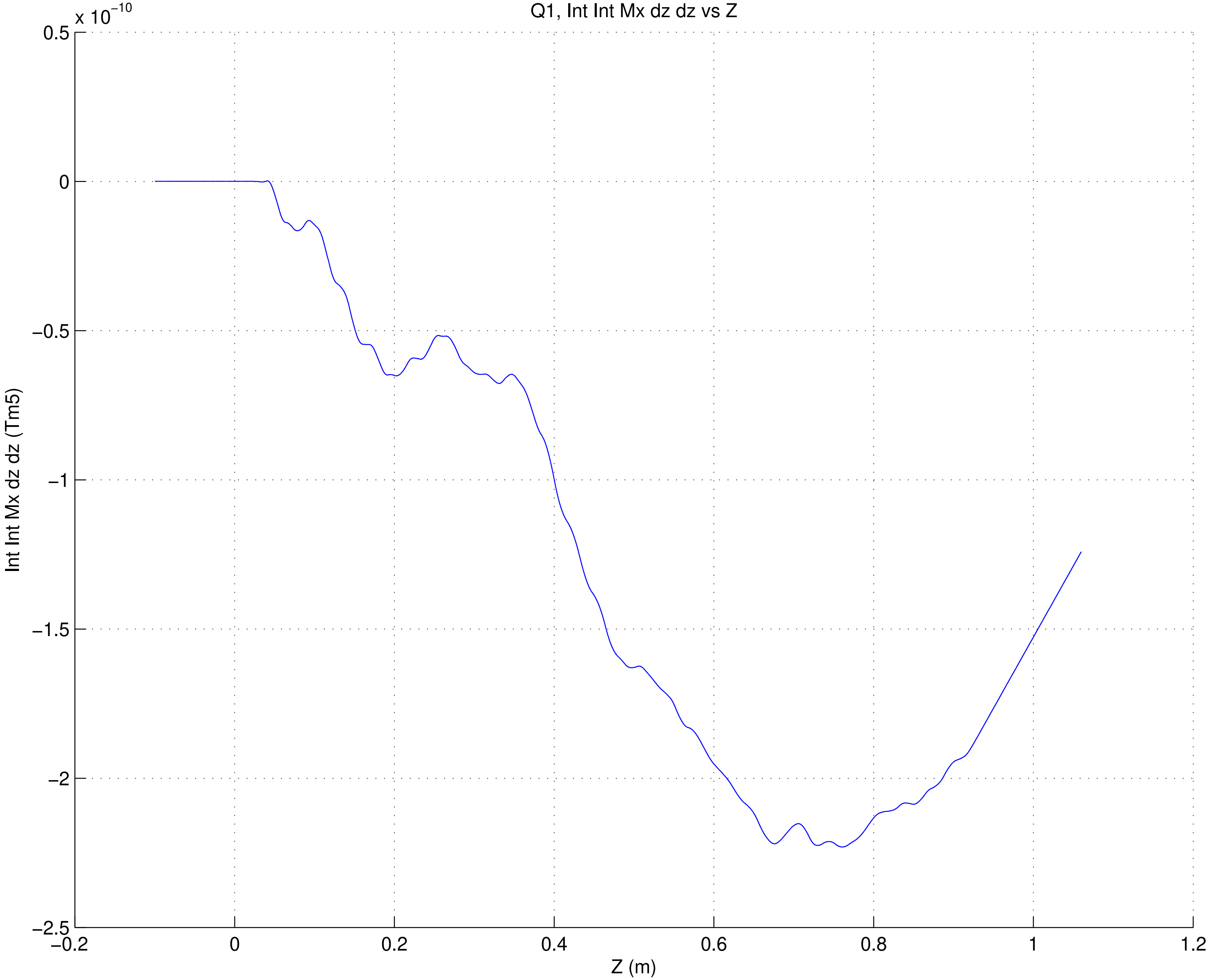
Magnet Block Placement Analysis

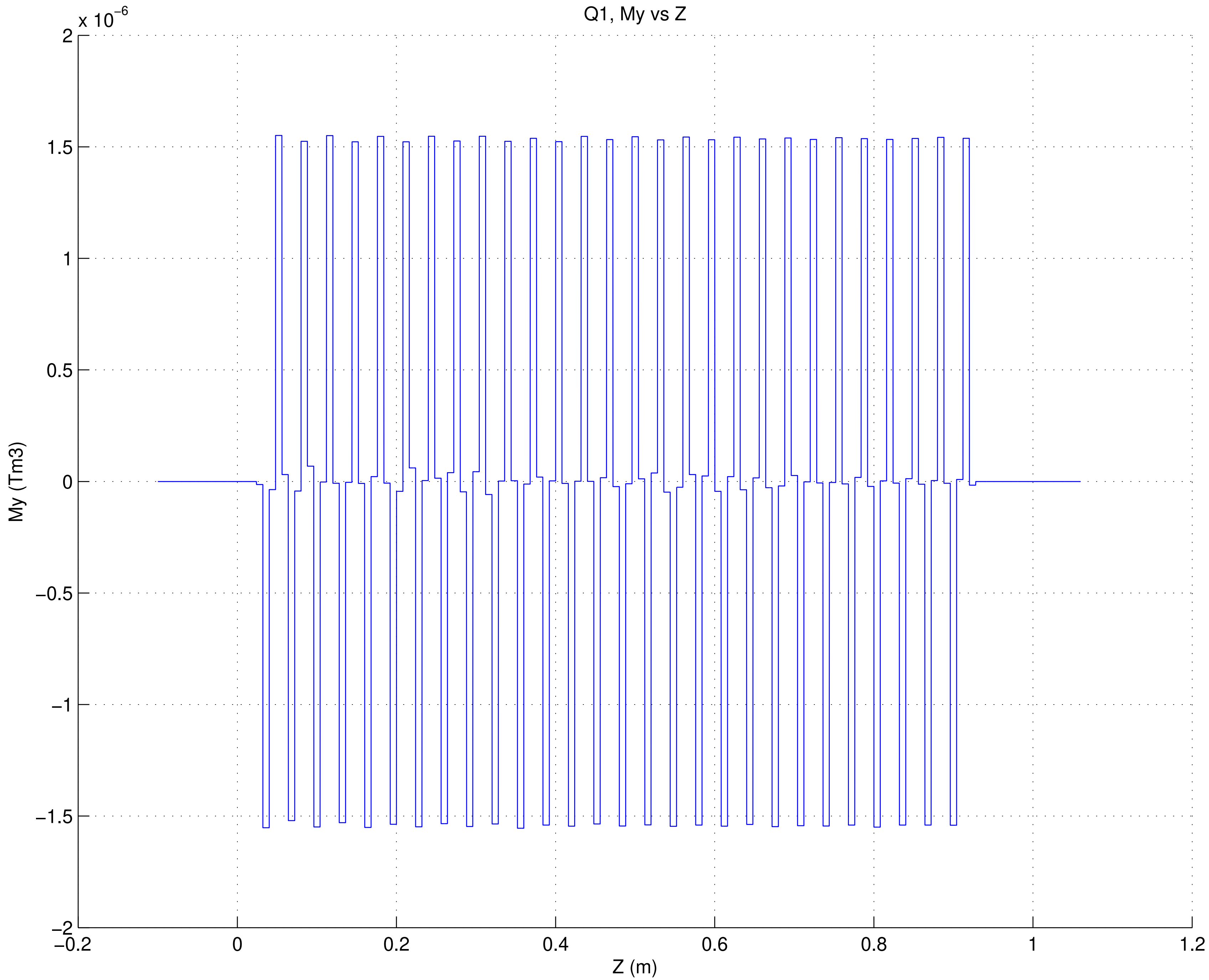
Parameters:
OUTPUT-FILE-DIR =c:\magdata\block sort results


Q1, Mx vs Z
x 10^-7
Mx (Tm3)
Z (m)
1.5
1
0.5
0
−0.5
−1
−1.5
−0.2
0
0.2
0.4
0.6
0.8
1
1.2

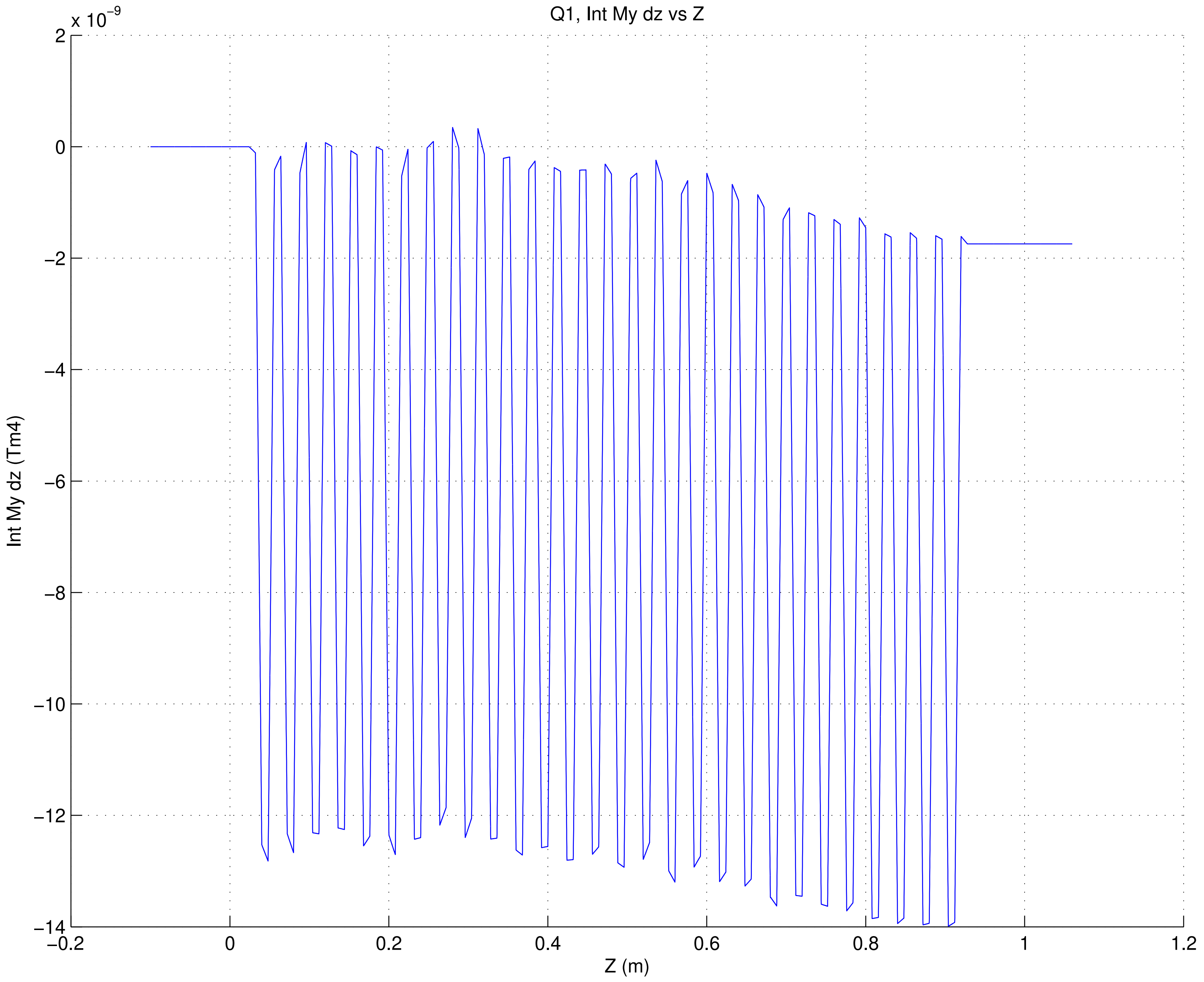


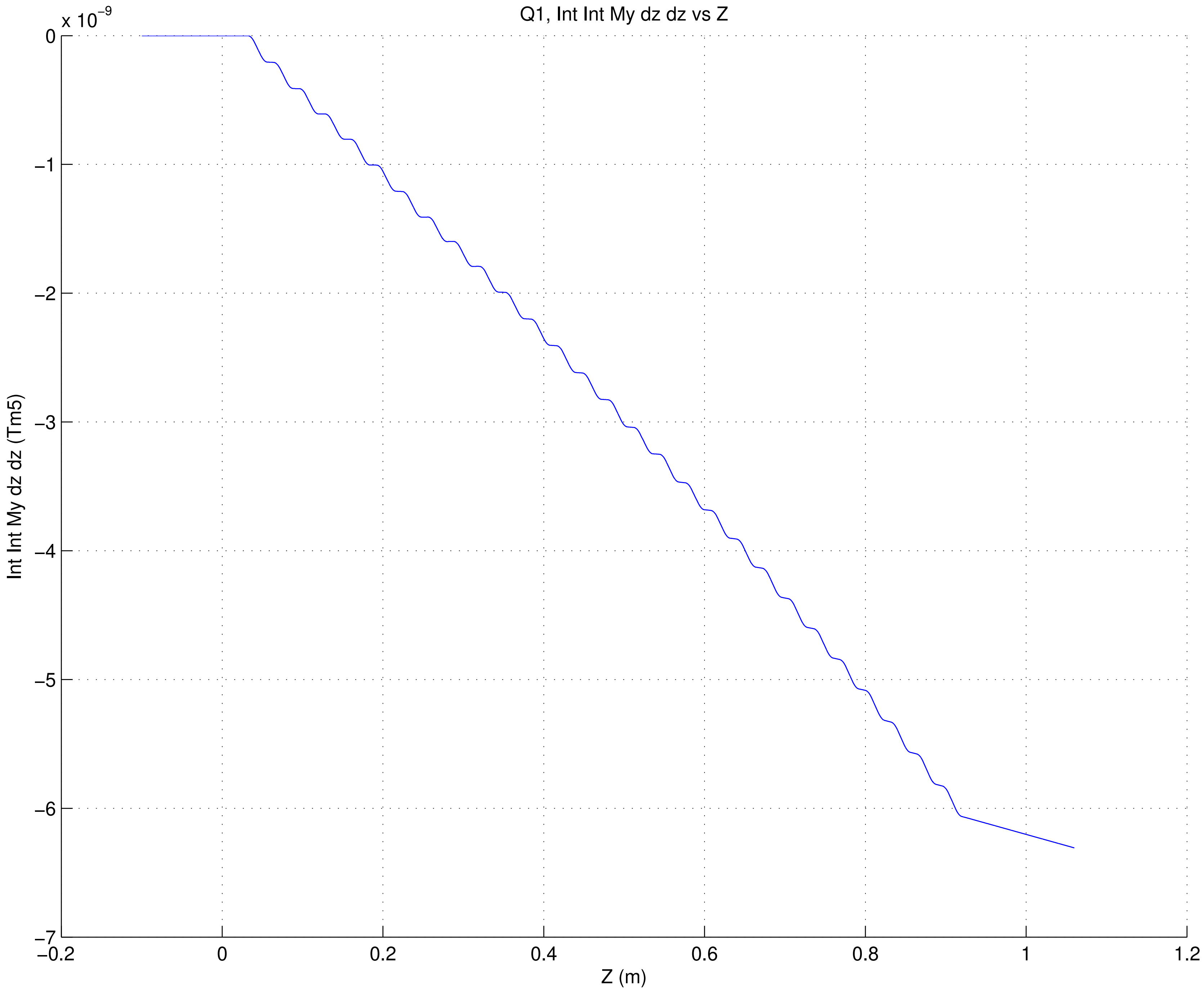
Q1, Int Mx dz vs Z
x 10^−10
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
Int Mx dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)


Q1, Int Int Mx dz dz vs Z
x 10^−10
0.5
0
−0.5
−1
−1.5
−2
−2.5
Int Int Mx dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

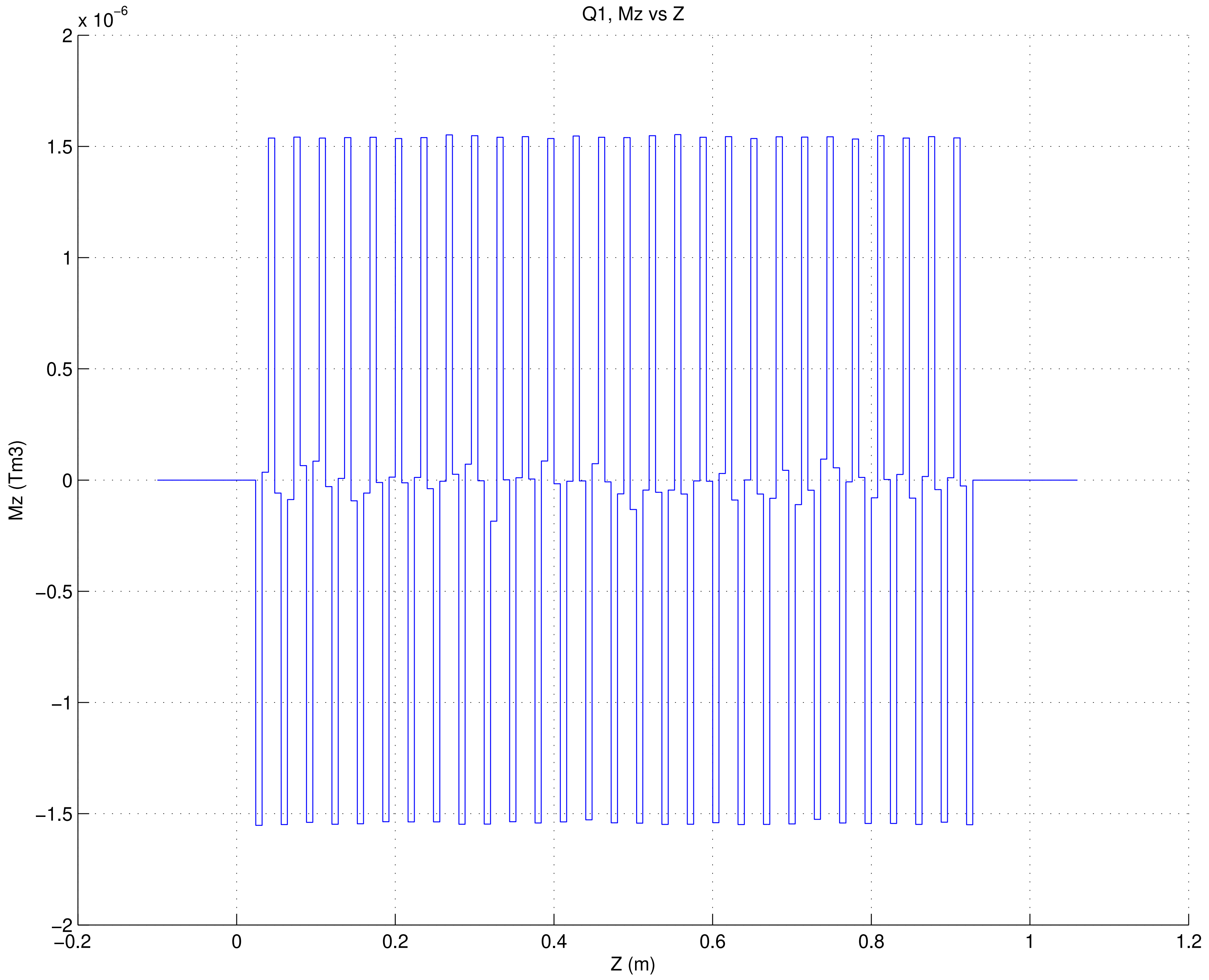


Q1, My vs Z
x 10^−6
My (Tm3)
Z (m)
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−0.2
0
0.2
0.4
0.6
0.8
1
1.2

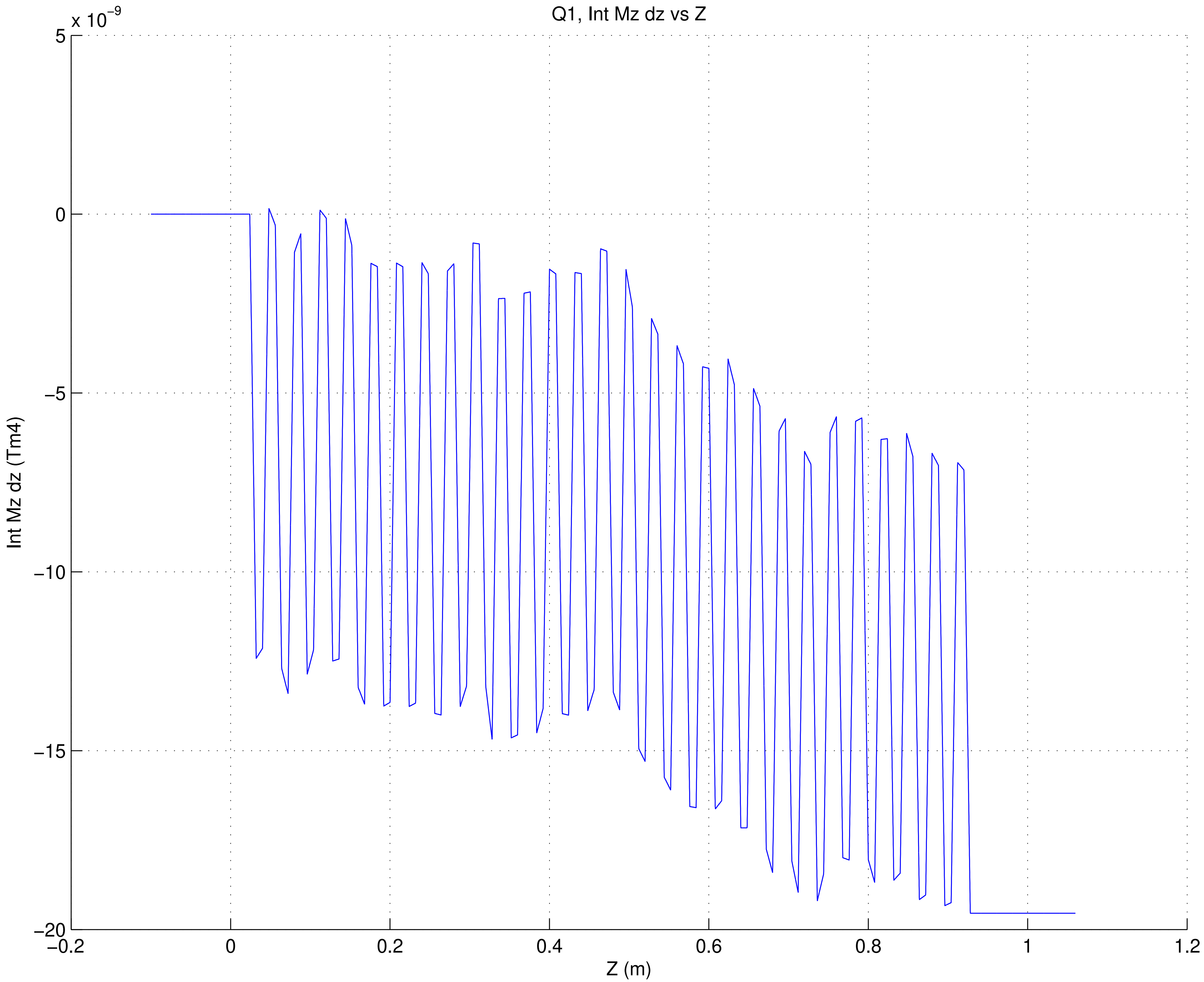

Q1, Int My dz vs Z
x 10^-9
2
0
−2
−4
−6
−8
−10
−12
−14
Int My dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



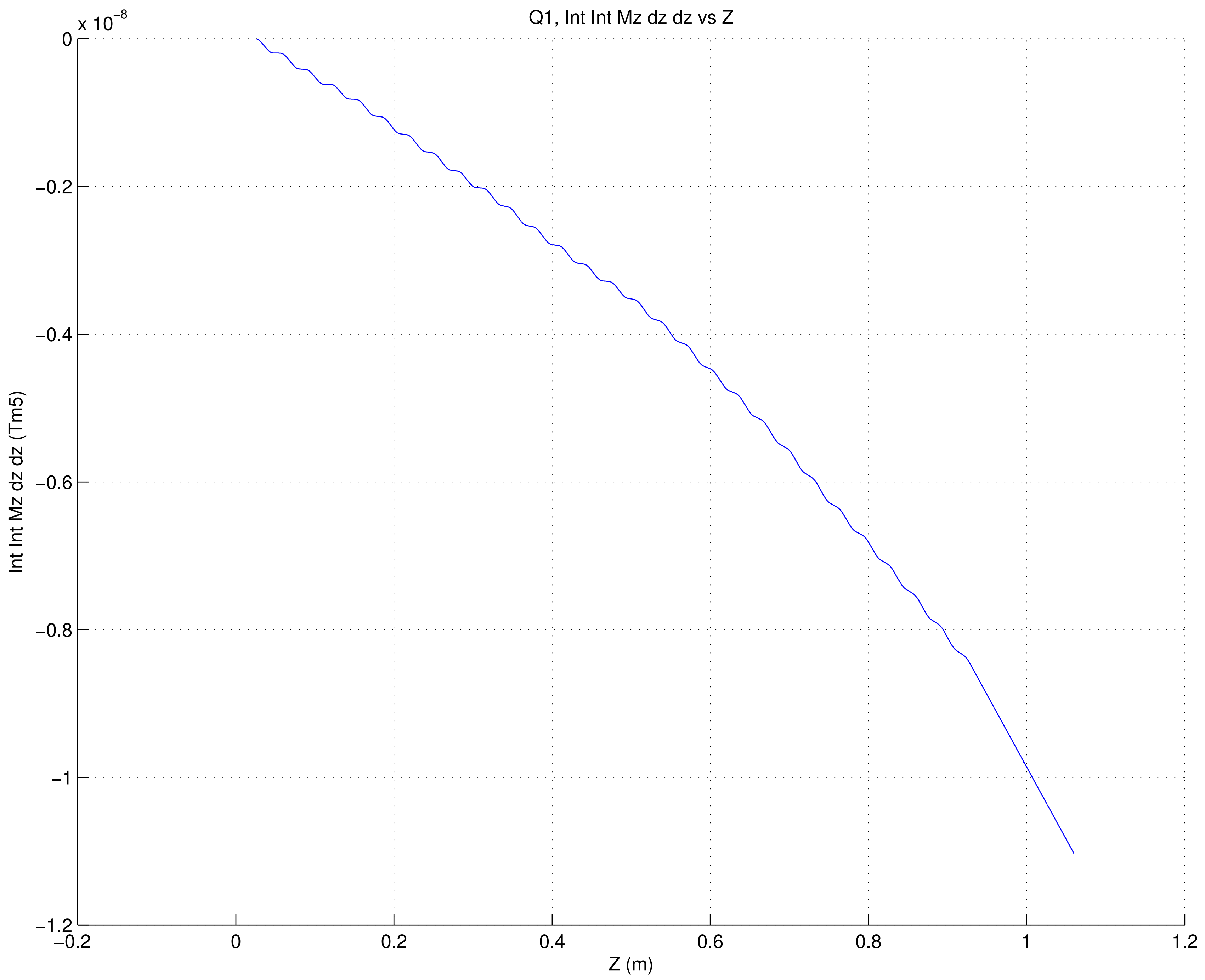
Q1, Int Int My dz dz vs Z
x 10^−9
0
−1
−2
−3
−4
−5
−6
−7
Int Int My dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



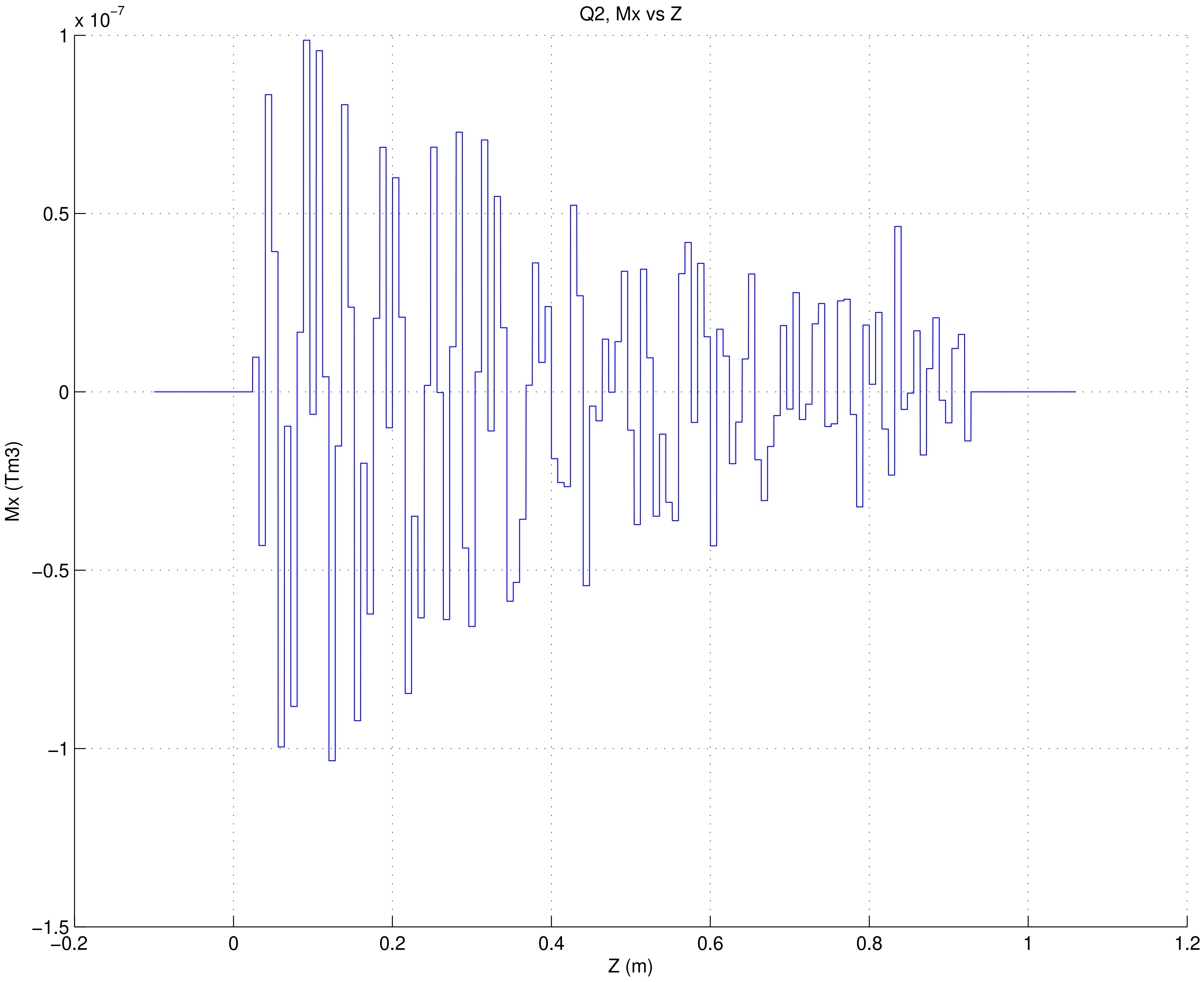
Q1, Mz vs Z
x 10^-6
Mz (Tm3)
Z (m)
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−0.2
0
0.2
0.4
0.6
0.8
1
1.2



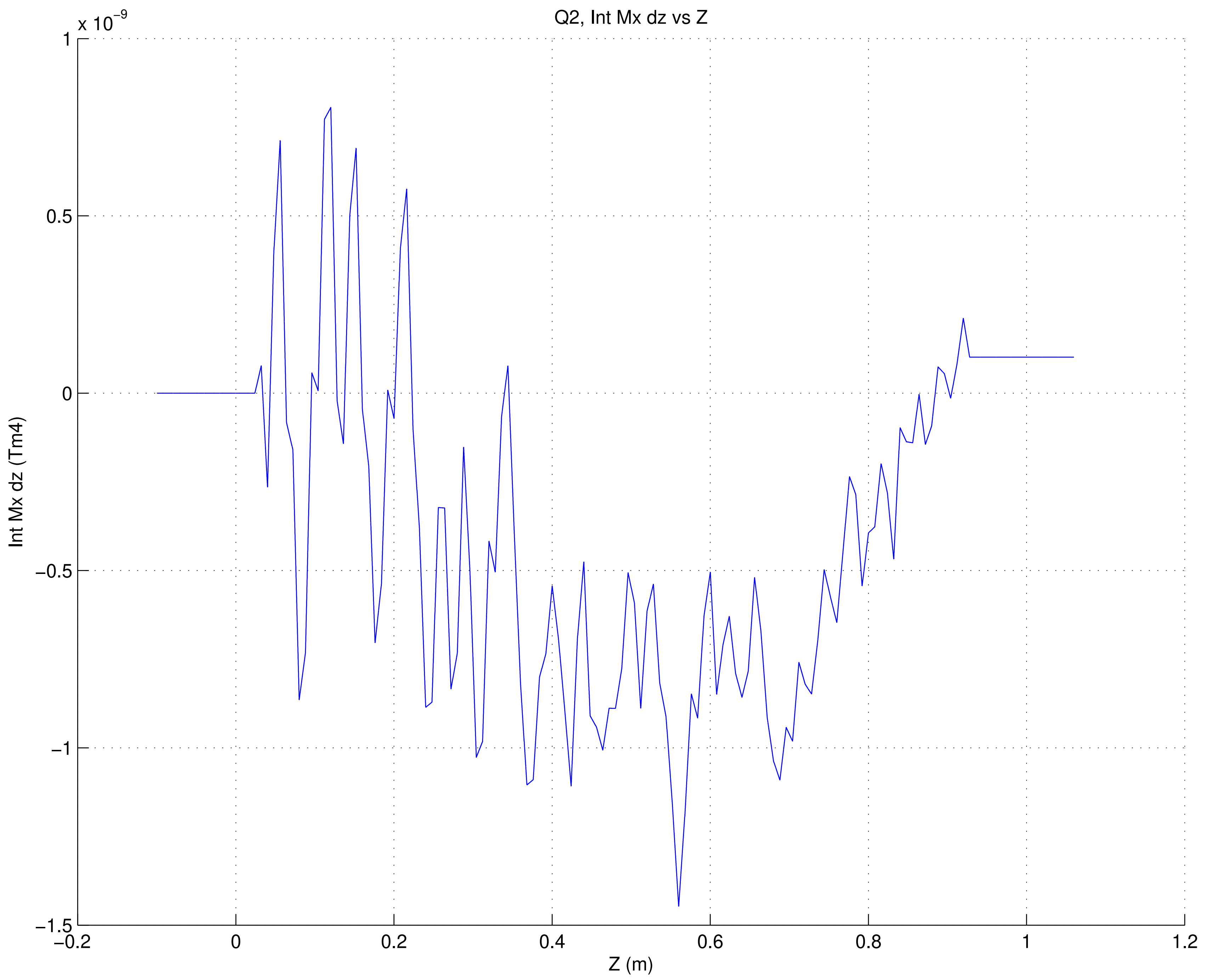
Q1, Int Mz dz vs Z
x 10^-9
5
0
−5
−10
−15
−20
Int Mz dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

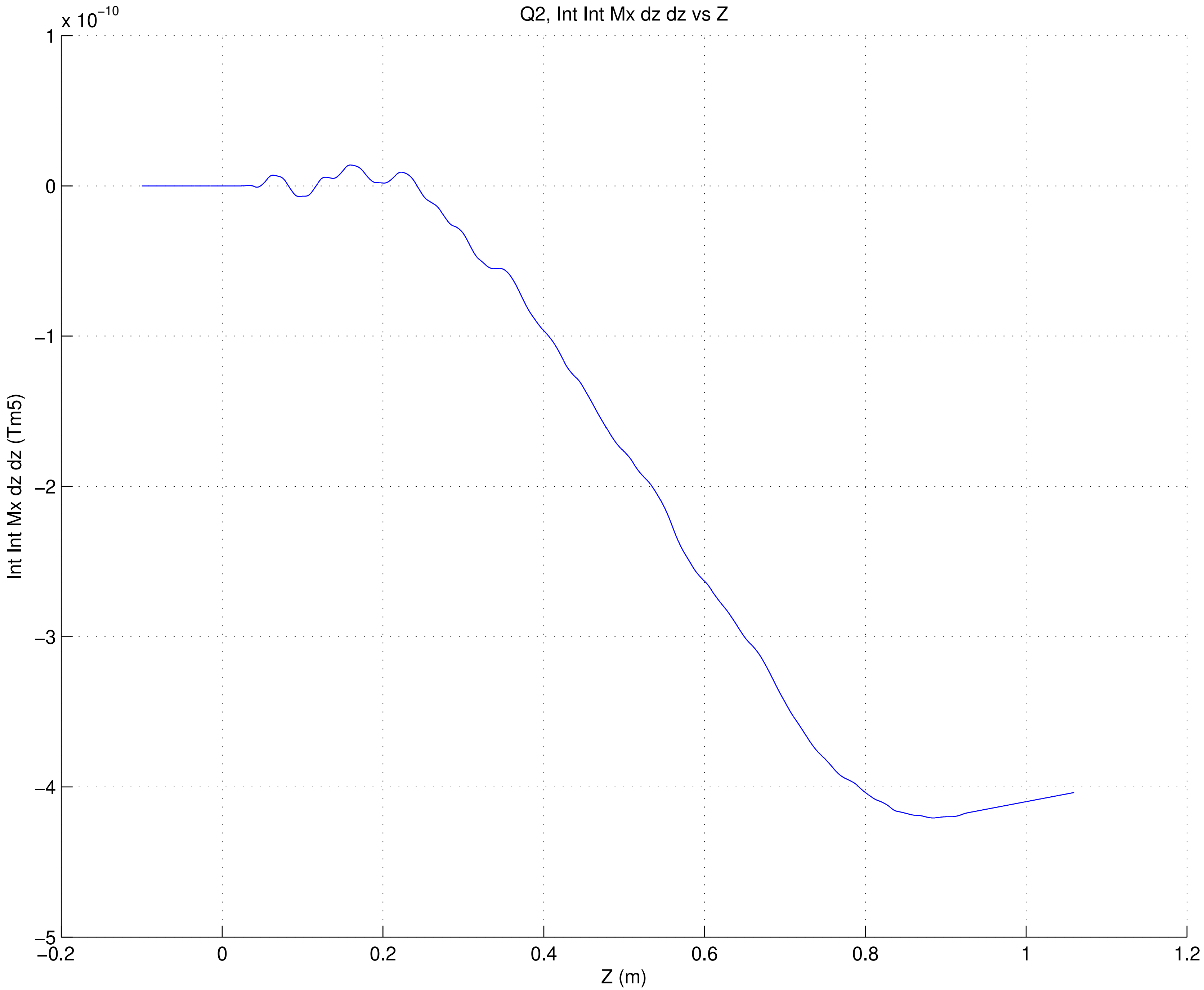


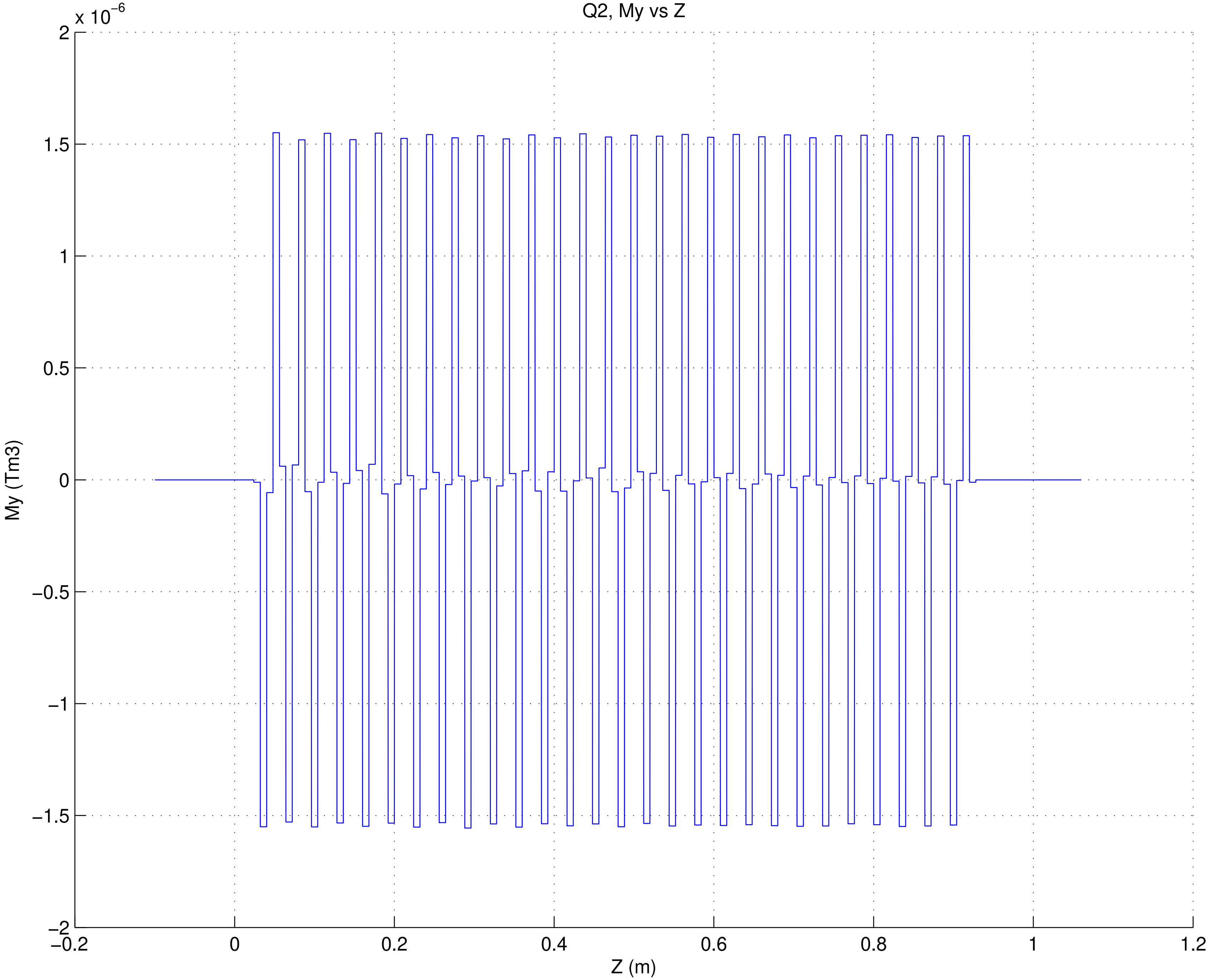
Q1, Int Int Mz dz dz vs Z
x 10^-8
Int Int Mz dz dz (Tm5)
Z (m)
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−0.2
0
0.2
0.4
0.6
0.8
1
1.2

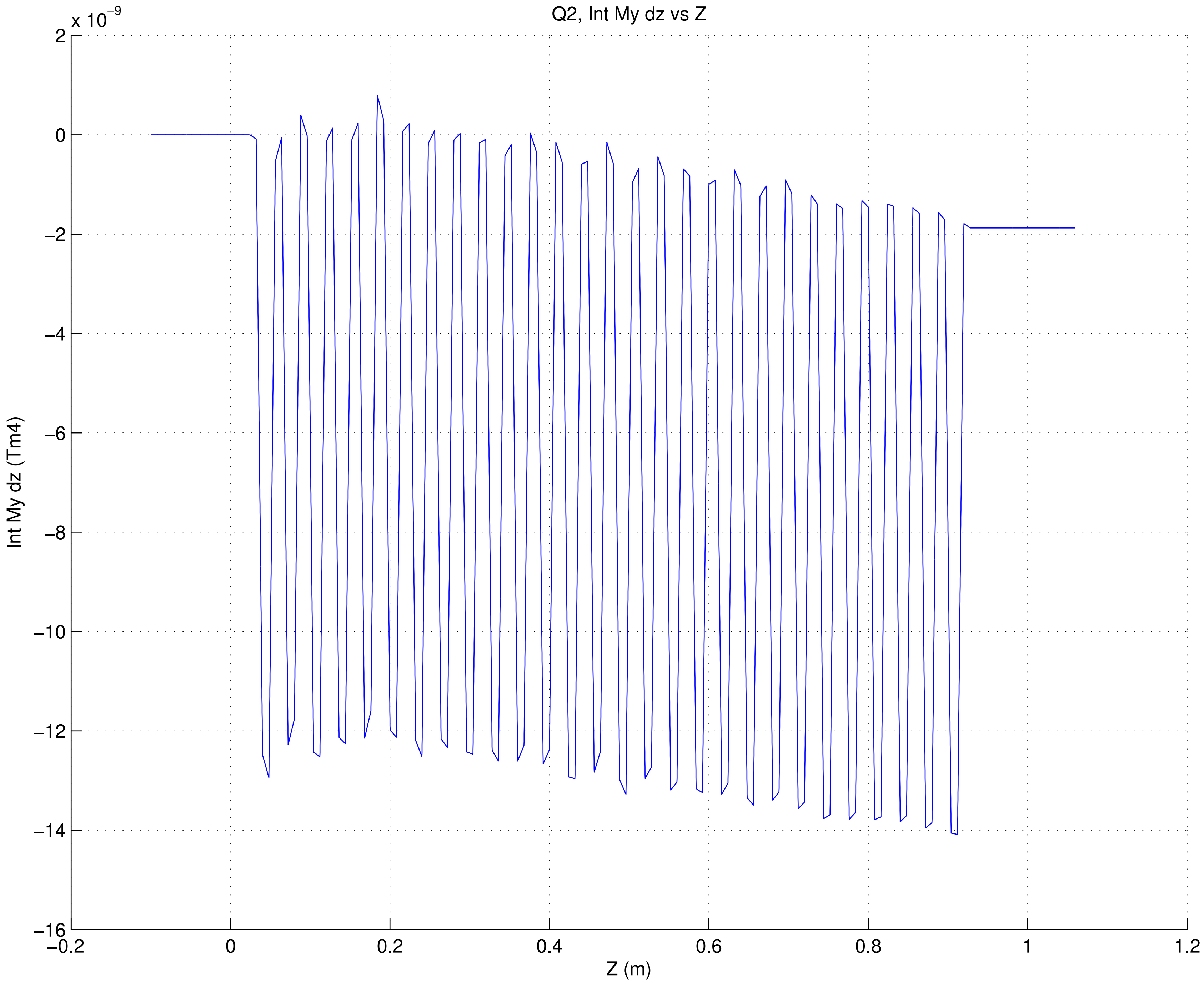


Q2, Mx vs Z
x 10^-7
1
0.5
0
−0.5
−1
−1.5
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Mx (Tm3)
Z (m)

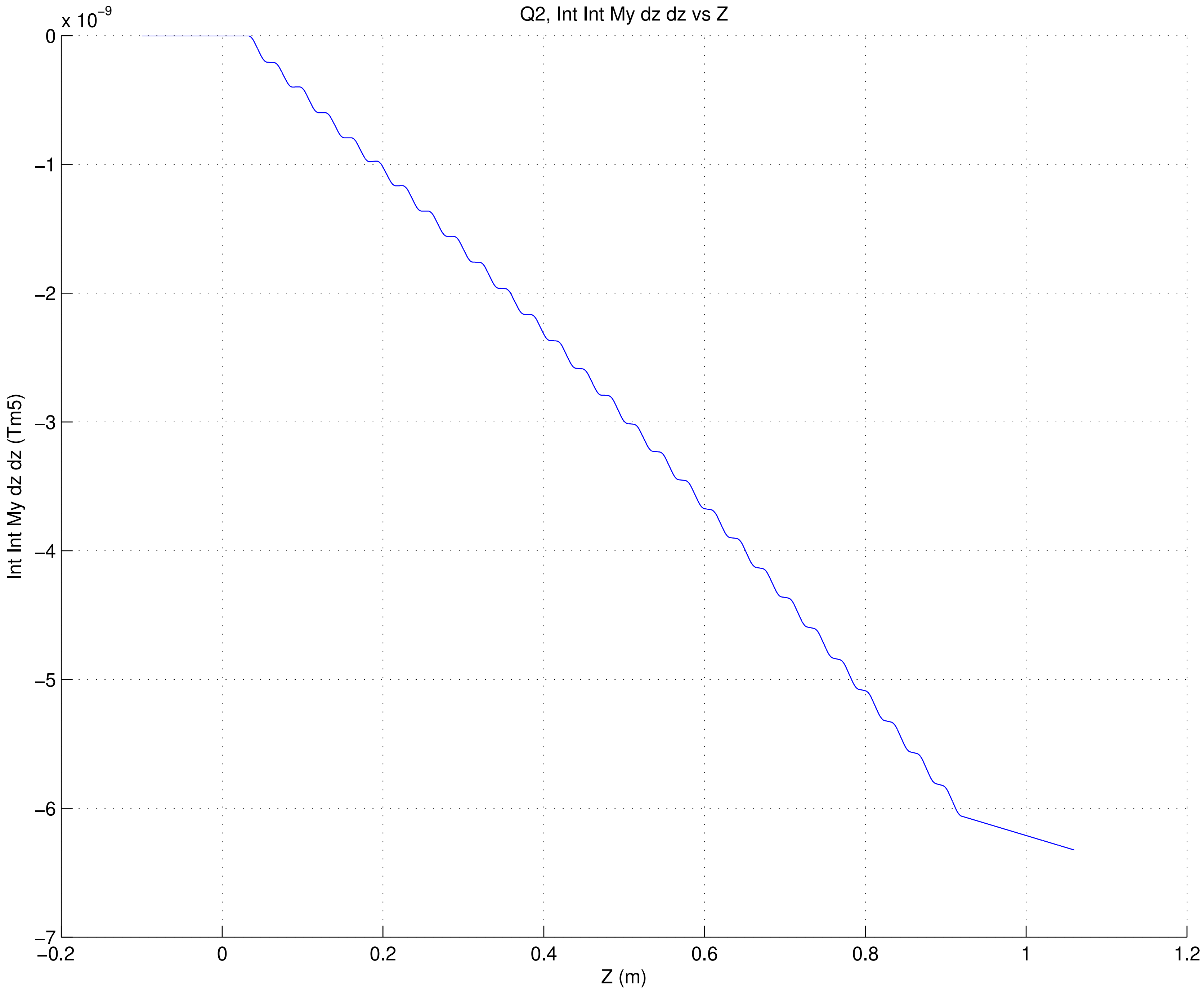

Q2, Int Mx dz vs Z
x 10^-9
Int Mx dz (Tm4)
Z (m)
1
0.5
0
−0.5
−1
−1.5
−0.2
0
0.2
0.4
0.6
0.8
1
1.2


Q2, Int Int Mx dz dz vs Z
x 10^−10
1
0
−1
−2
−3
−4
−5
Int Int Mx dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

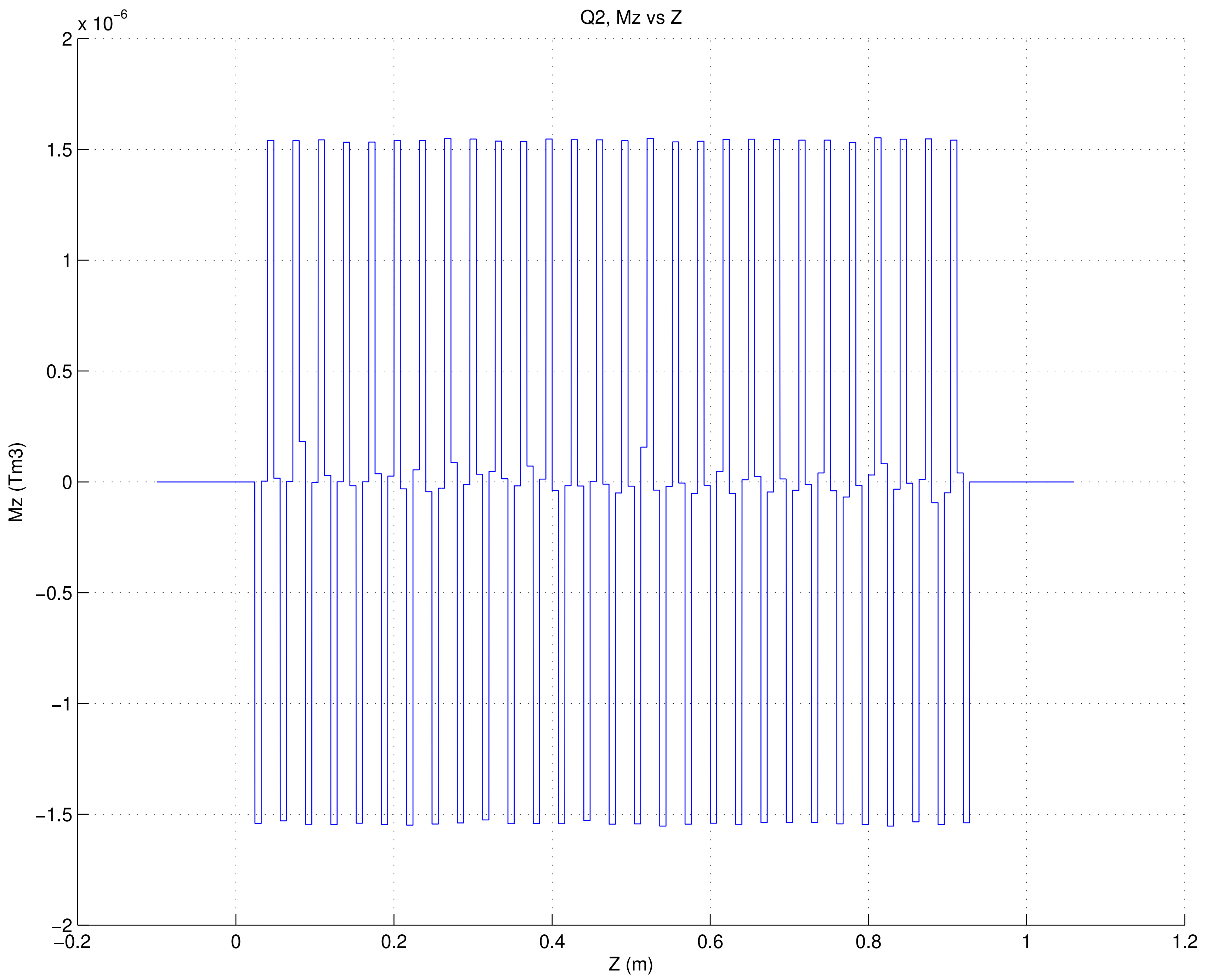

Q2, My vs Z
x 10^−6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
My (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

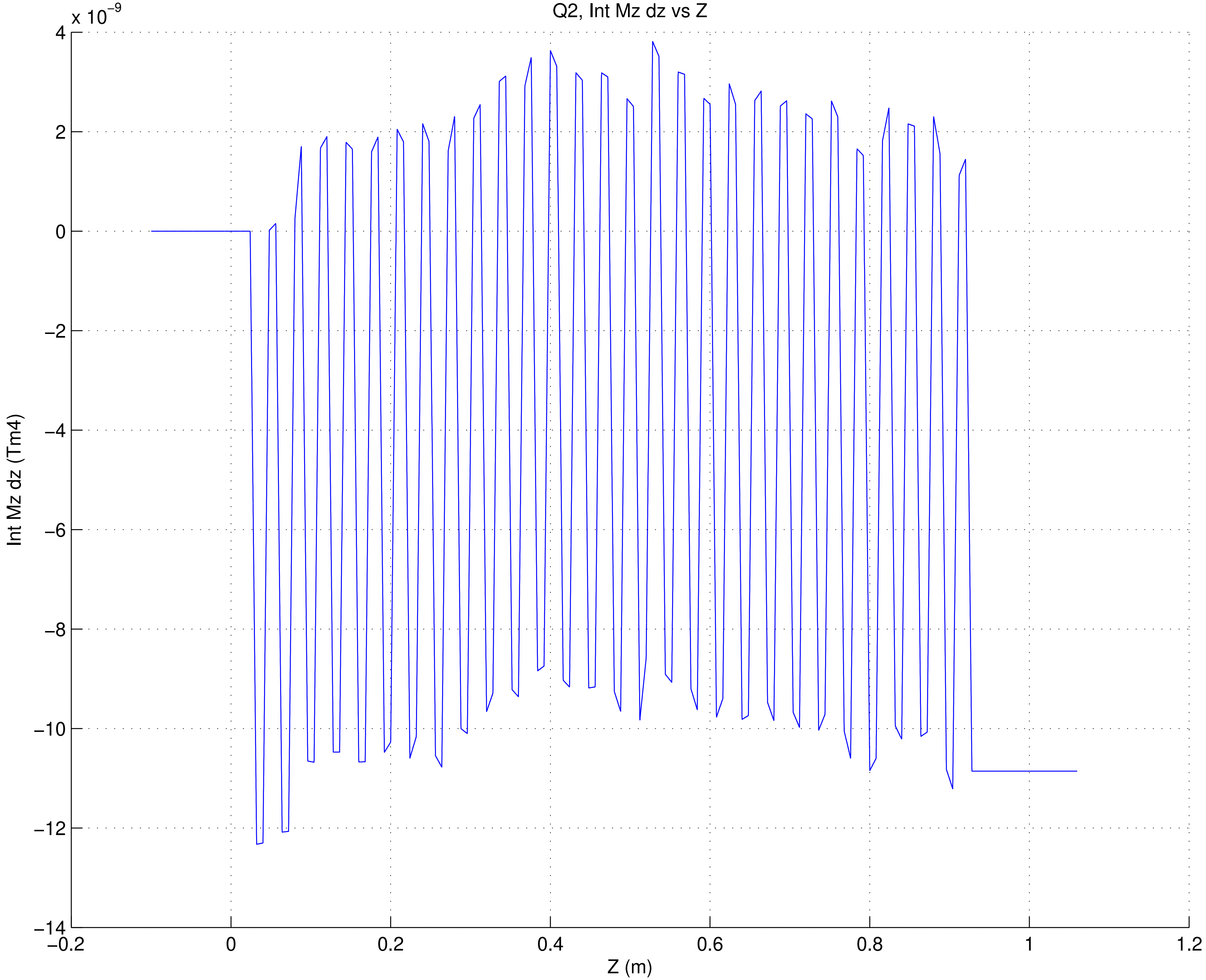


Q2, Int My dz vs Z
x 10^-9
2
0
−2
−4
−6
−8
−10
−12
−14
−16
Int My dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

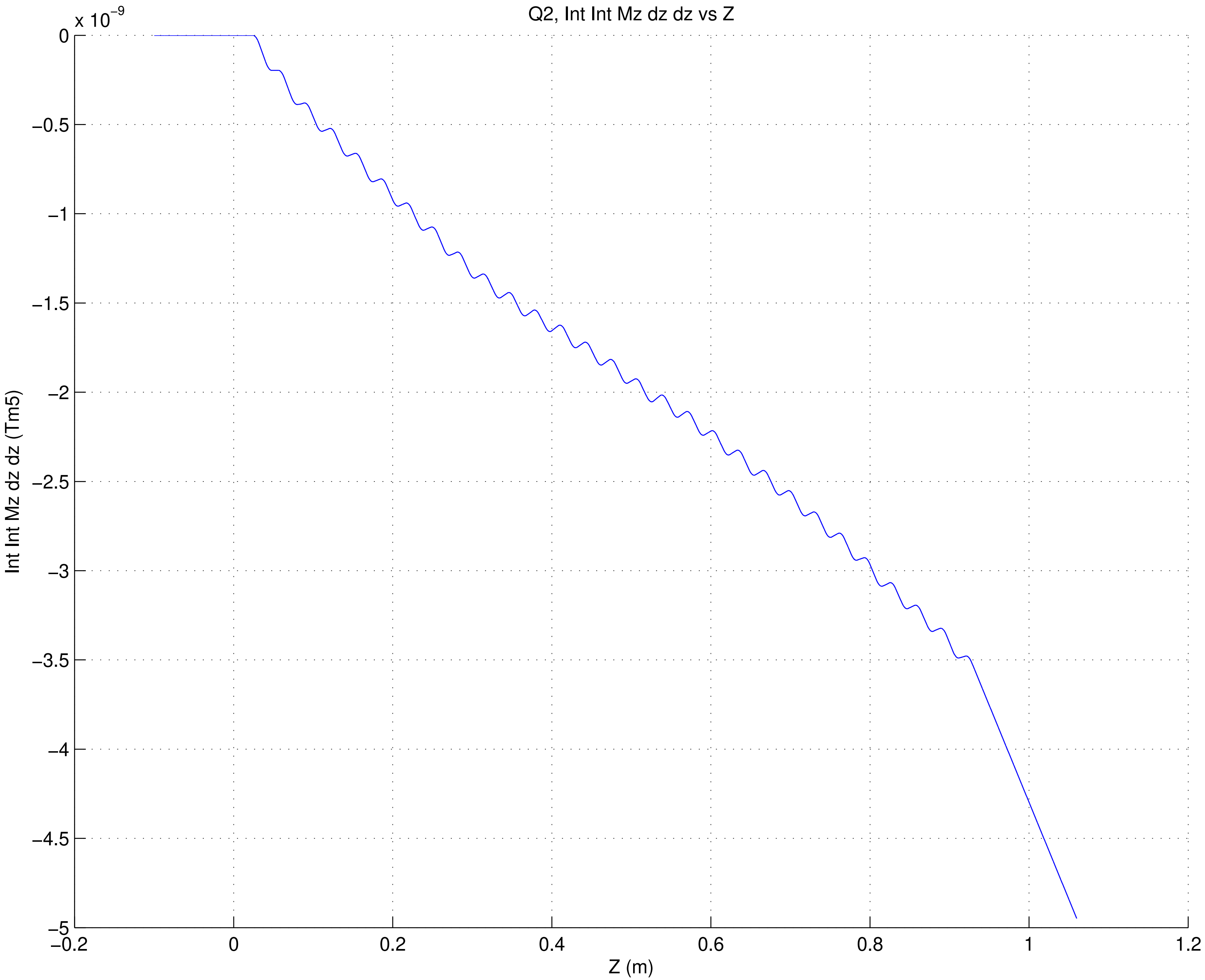


Q2, Int Int My dz dz vs Z
x 10^−9
0
−1
−2
−3
−4
−5
−6
−7
Int Int My dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

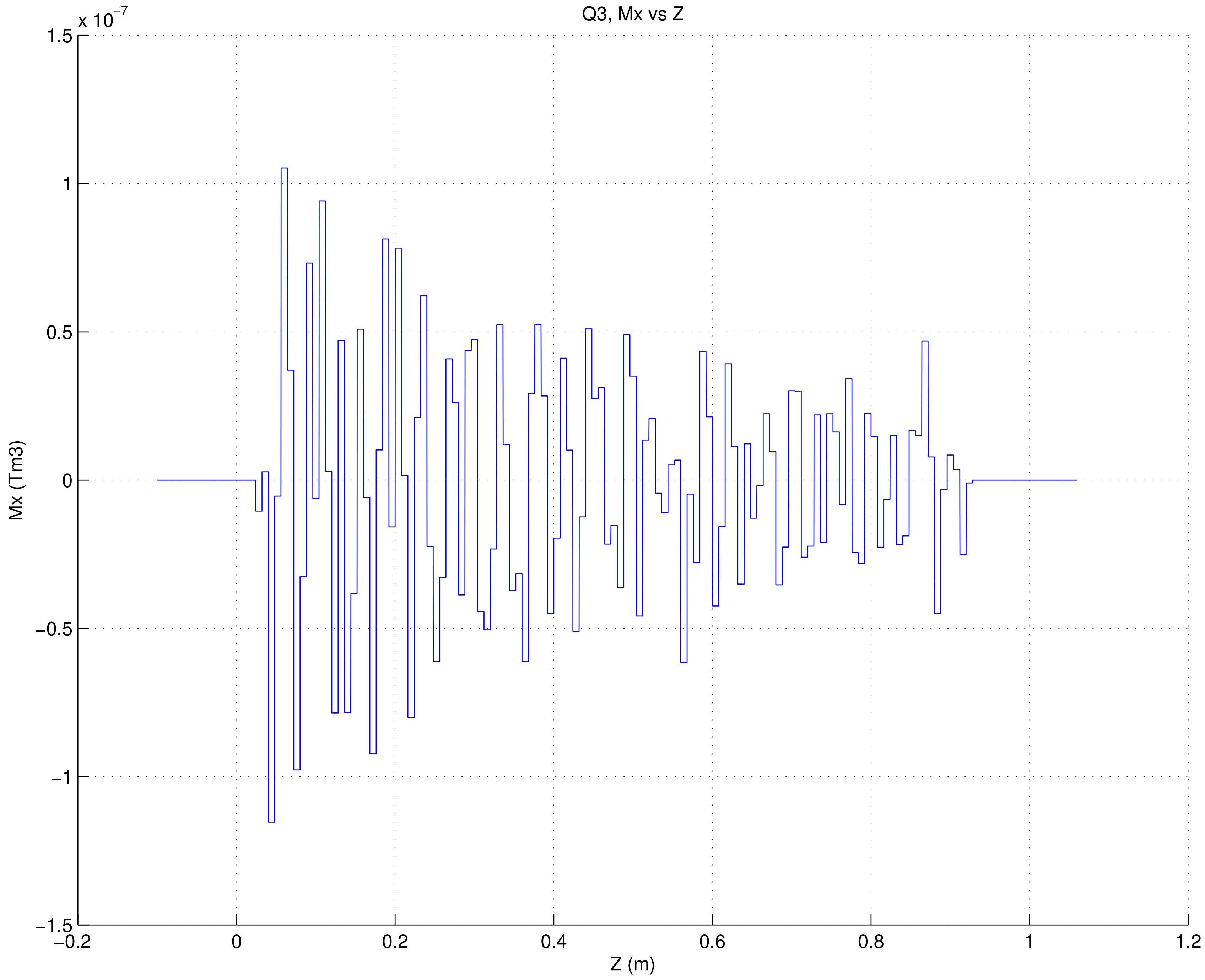

Q2, Mz vs Z
x 10^−6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
Mz (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



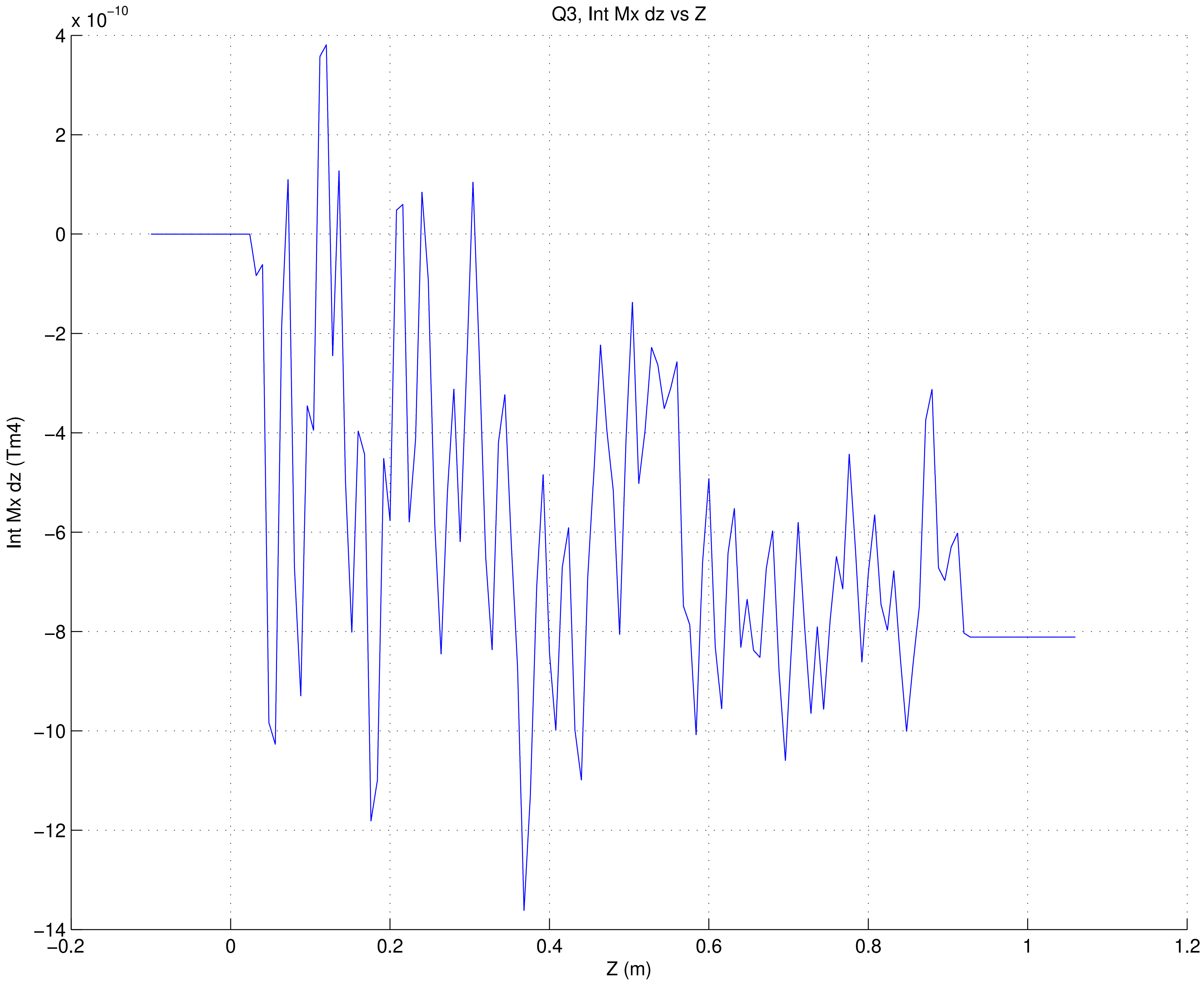
Q2, Int Mz dz vs Z
x 10^-9
4
2
0
−2
−4
−6
−8
−10
−12
−14
Int Mz dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



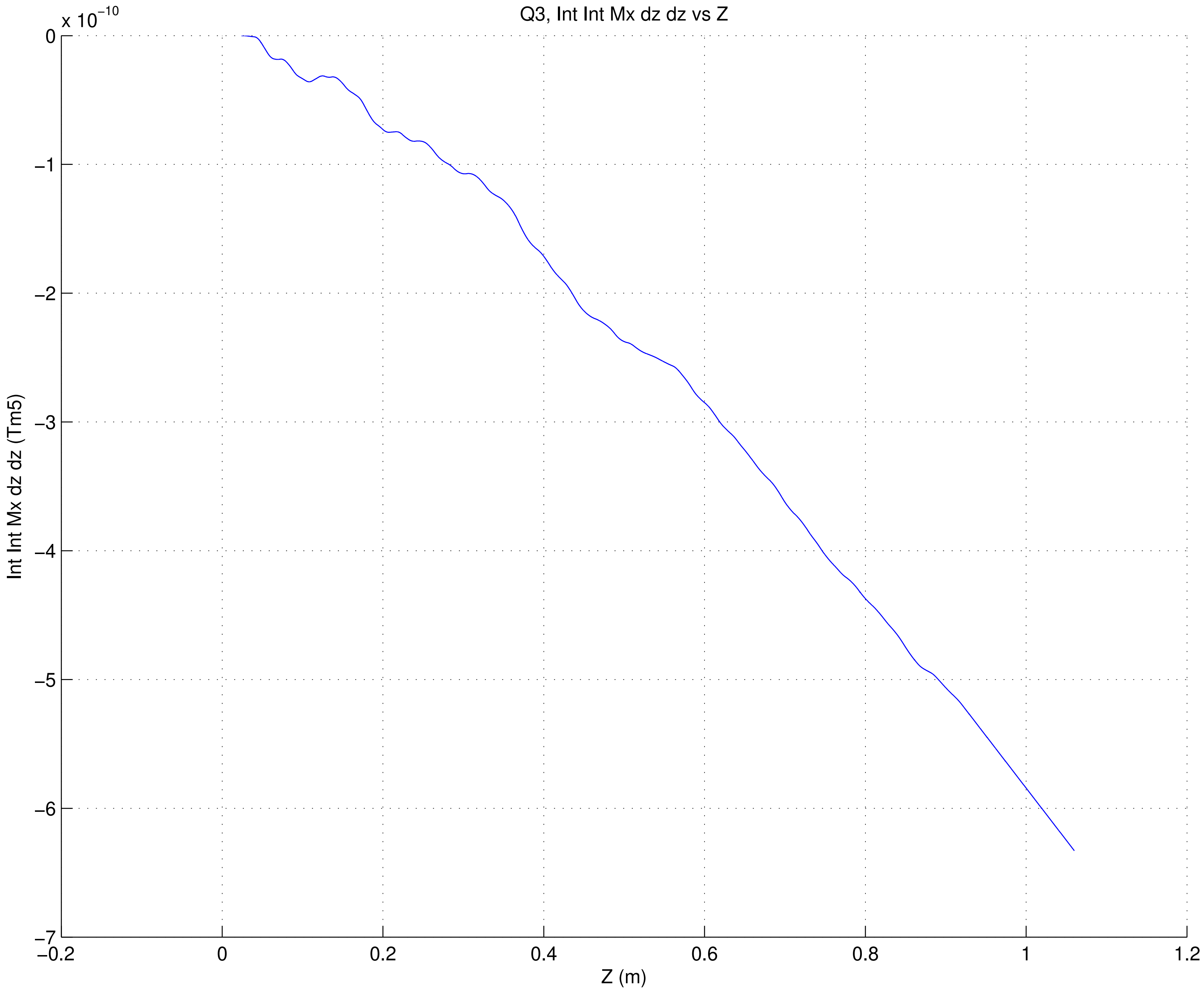
Q2, Int Int Mz dz dz vs Z
x 10^−9
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
−5
Int Int Mz dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



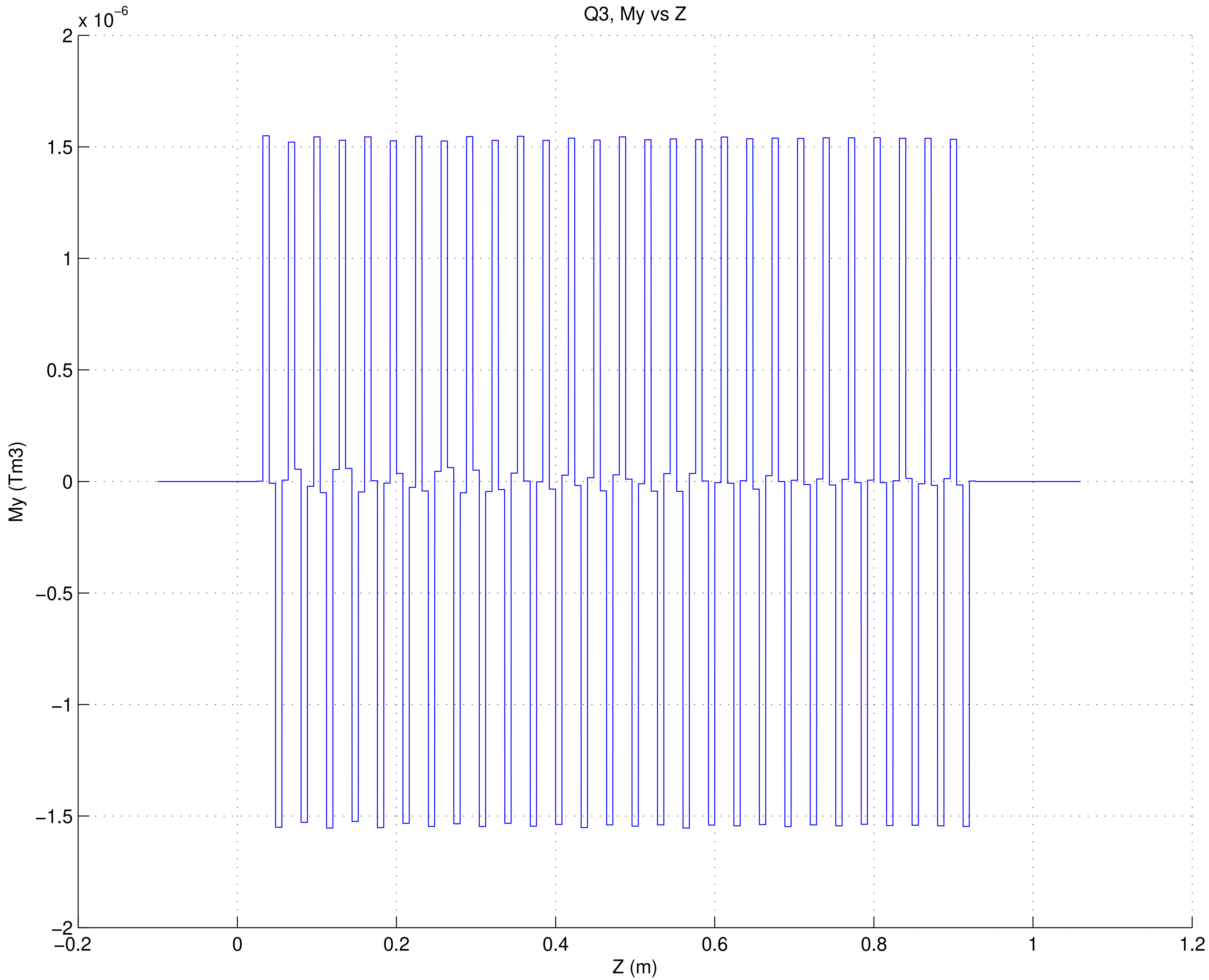
Q3, Mx vs Z
x 10^-7
1.5
1
0.5
0
−0.5
−1
−1.5
Mx (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



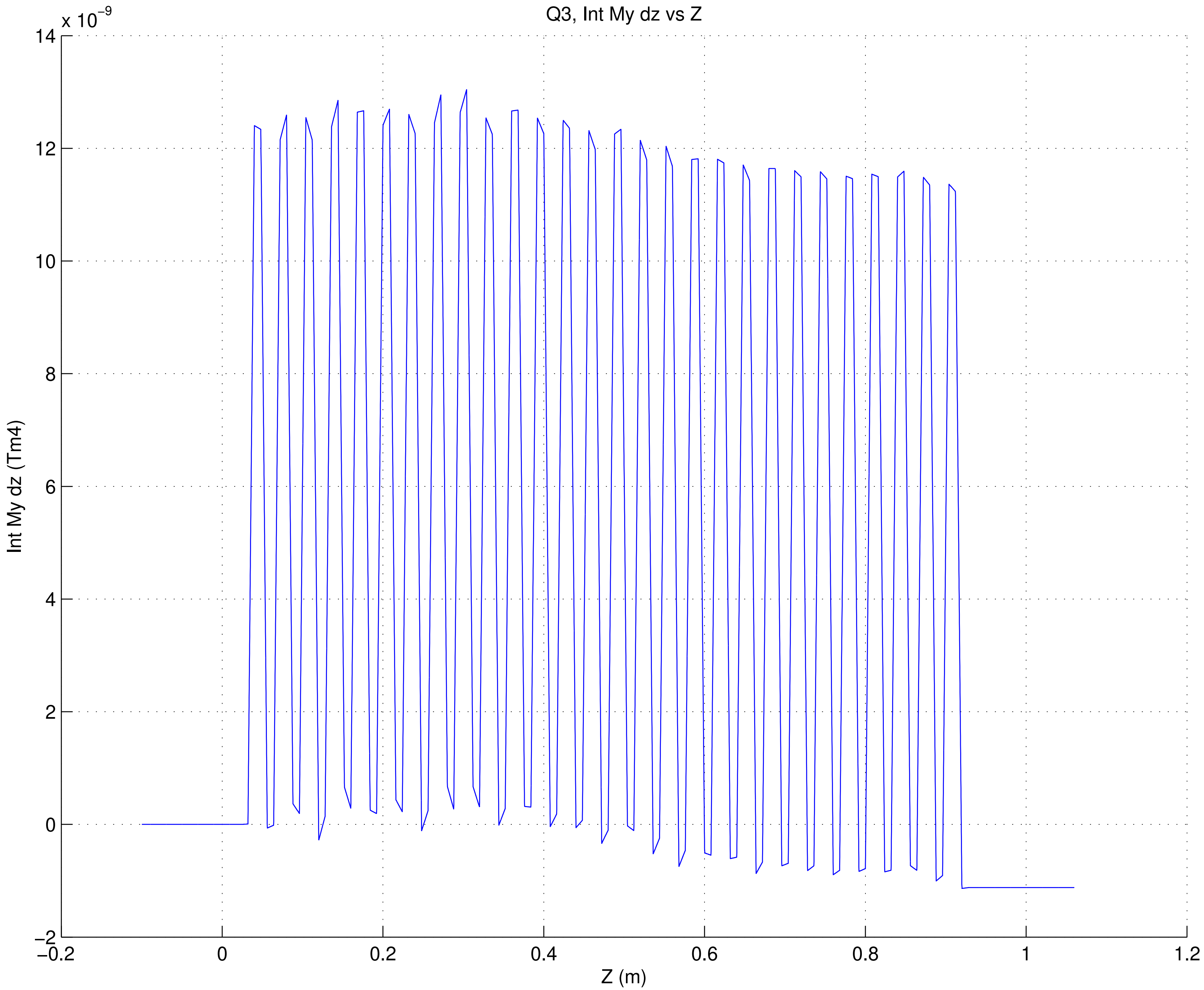
Q3, Int Mx dz vs Z
x 10^−10
4
2
0
−2
−4
−6
−8
−10
−12
−14
Int Mx dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

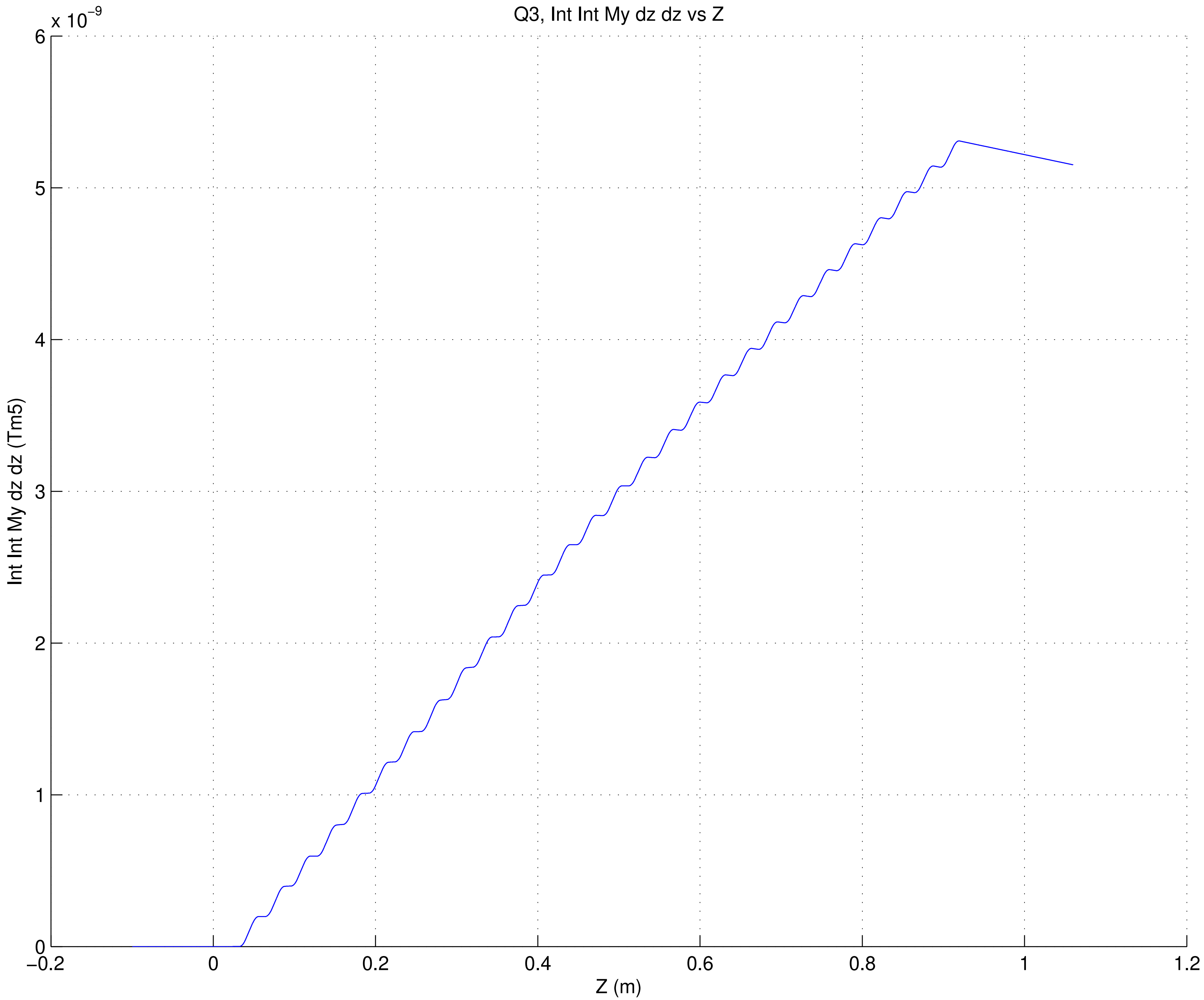


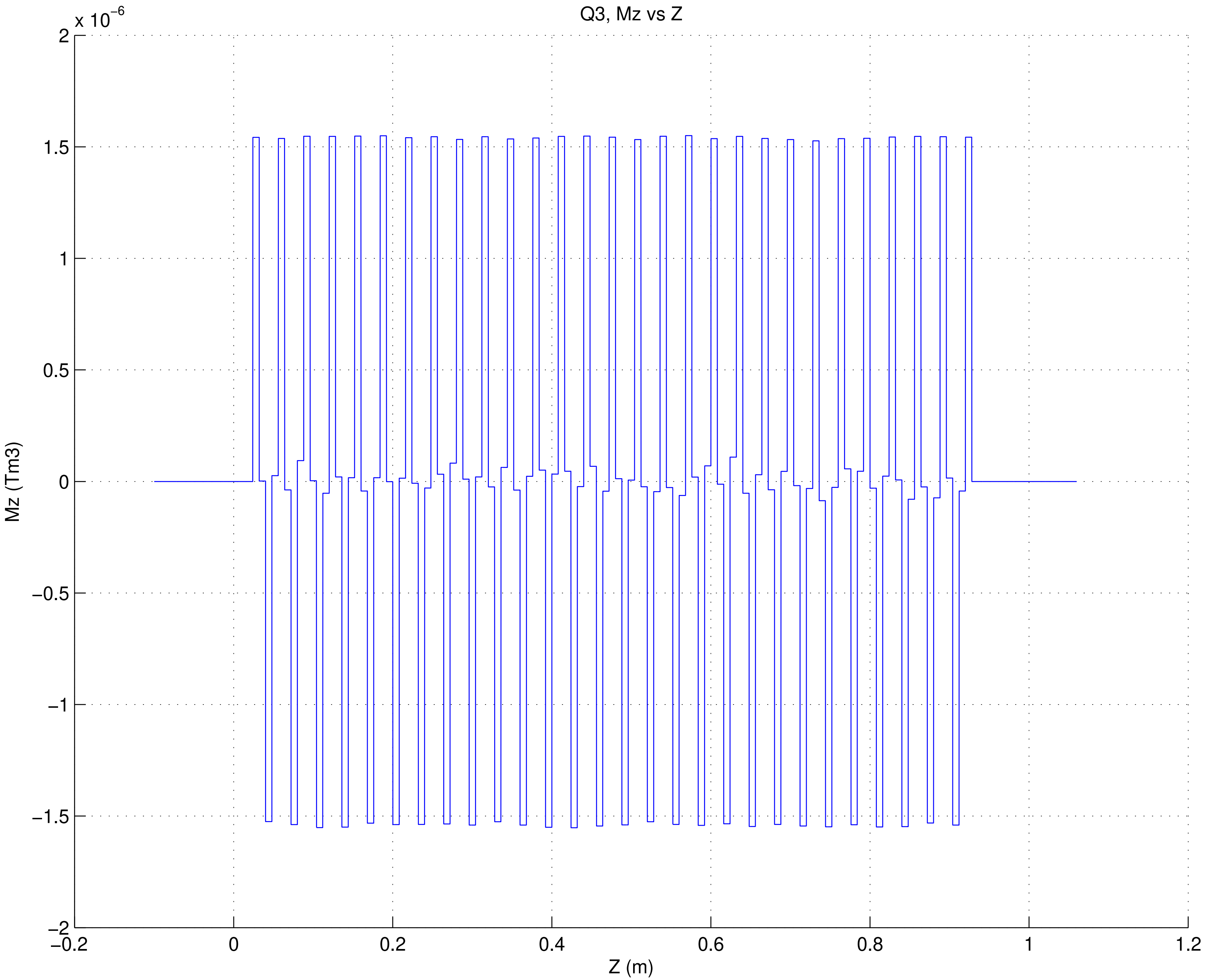
Q3, Int Int Mx dz dz vs Z
x 10^−10
0
−1
−2
−3
−4
−5
−6
−7
Int Int Mx dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

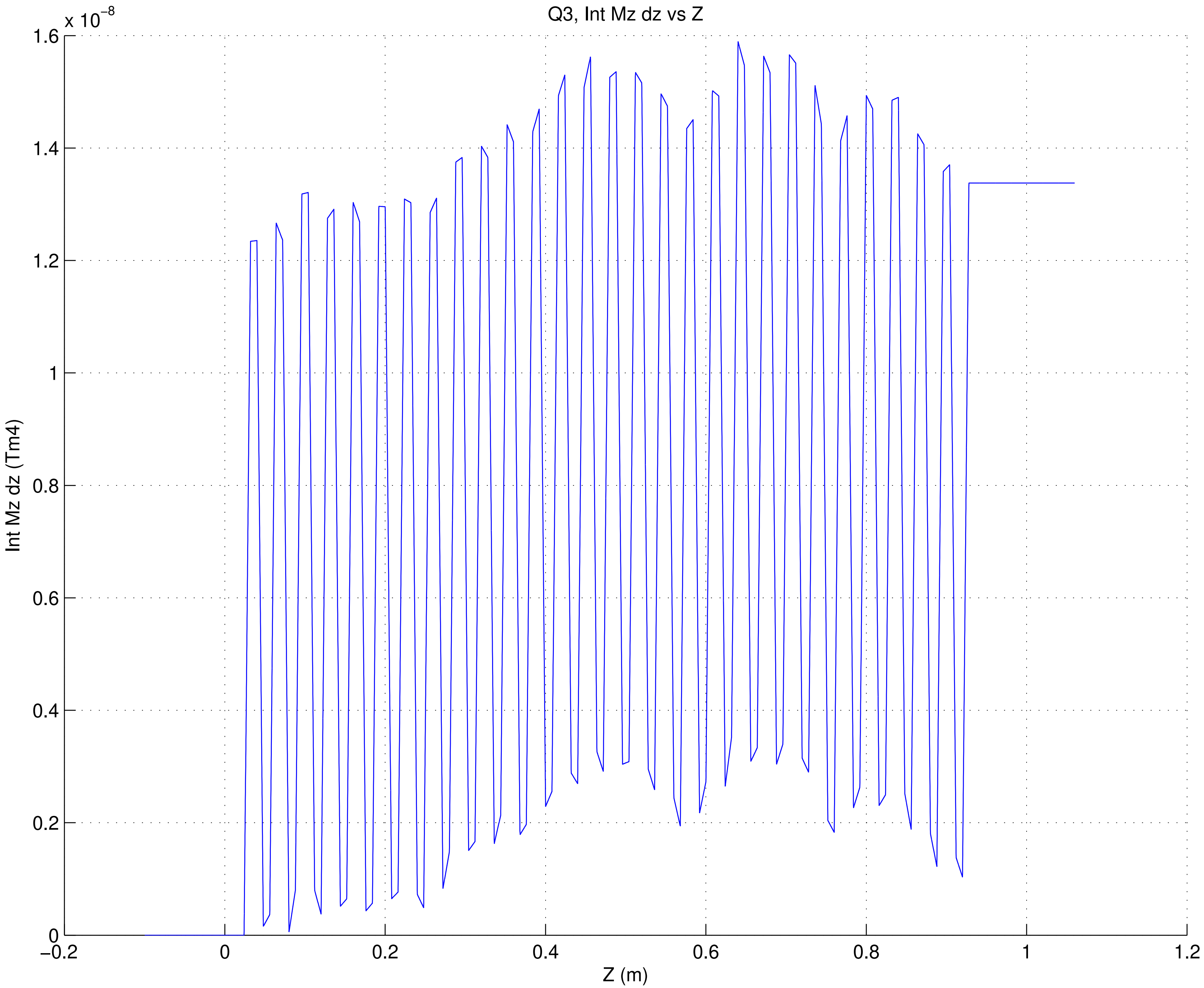


Q3, My vs Z
x 10^-6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
My (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

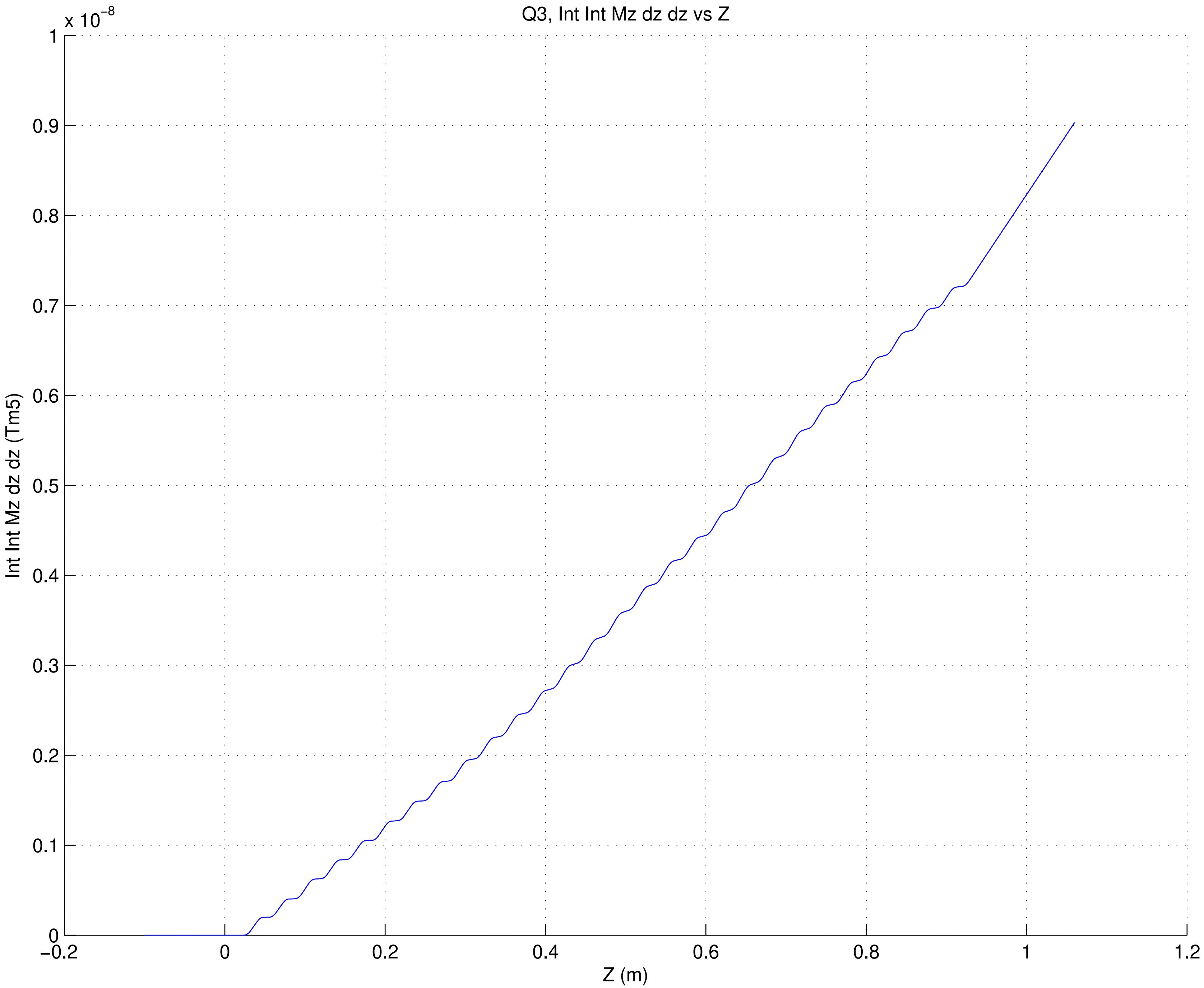

Q3, Int My dz vs Z
x 10^-9
14
12
10
8
6
4
2
0
−2
Int My dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

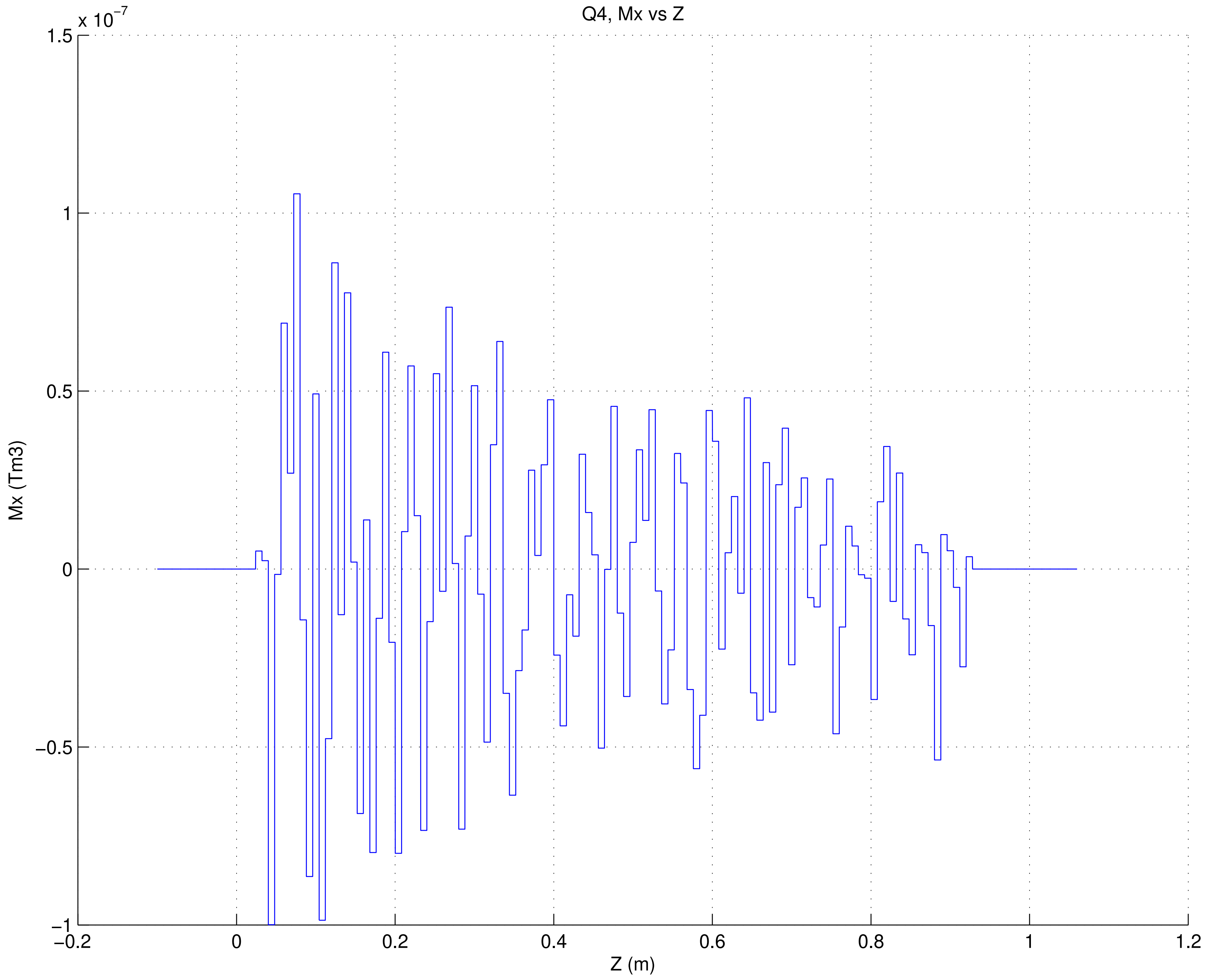

Q3, Int Int My dz dz vs Z
x 10^−9
6
5
4
3
2
1
0
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Int Int My dz dz (Tm5)
Z (m)

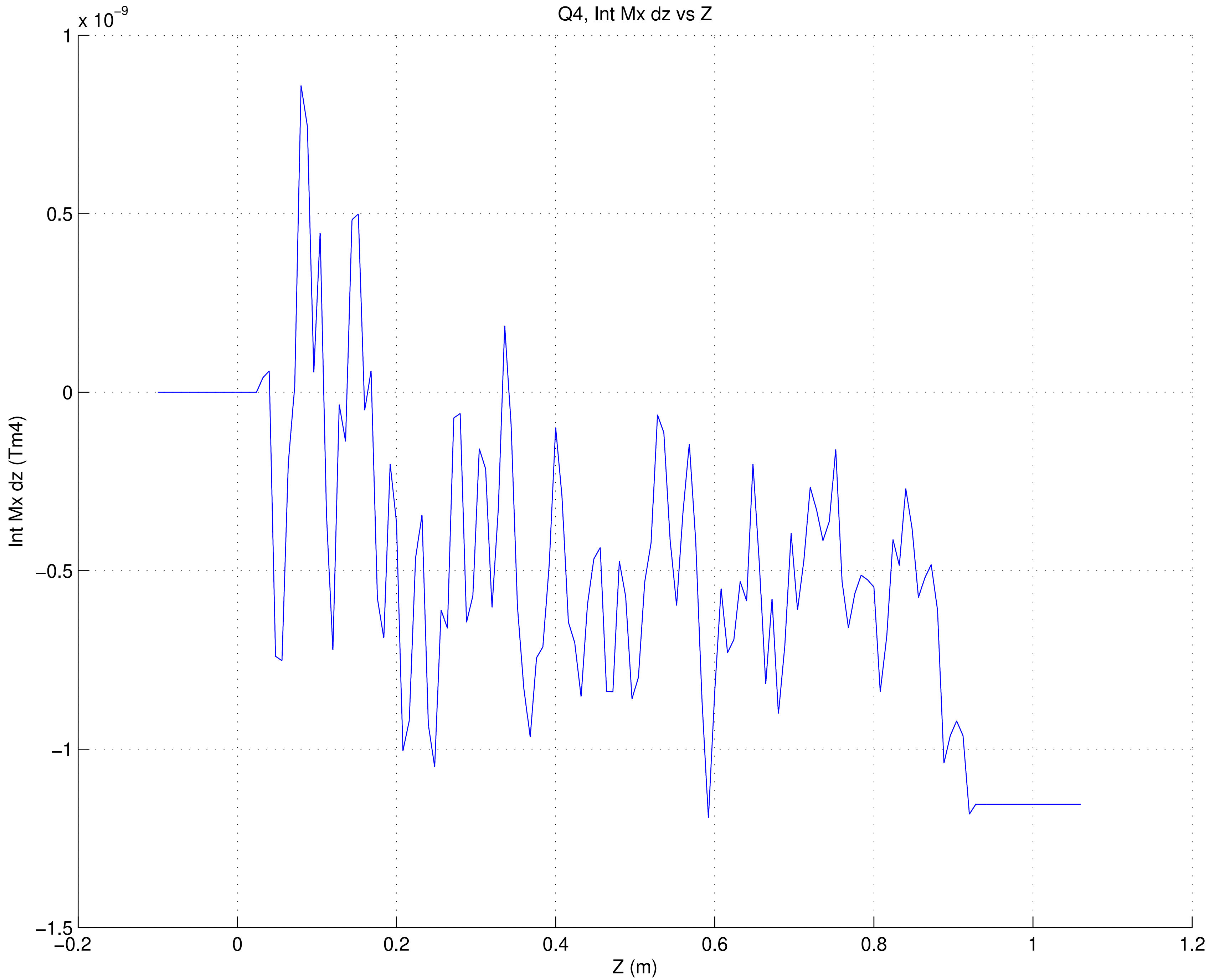

Q3, Mz vs Z
x 10^-6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
Mz (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



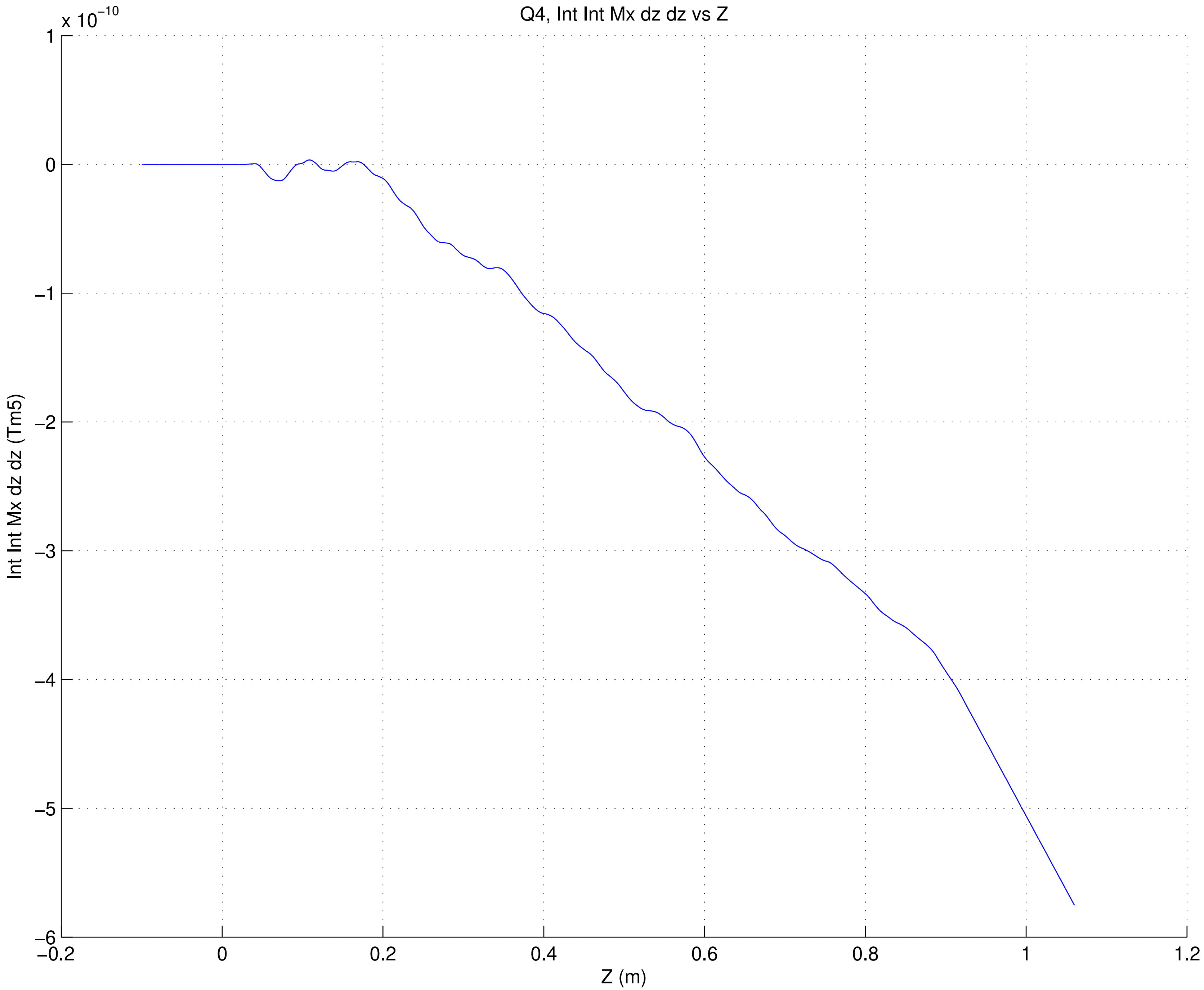
Q3, Int Mz dz vs Z
x 10^-8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Int Mz dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)


Q3, Int Int Mz dz dz vs Z
x 10^-8
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Int Int Mz dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

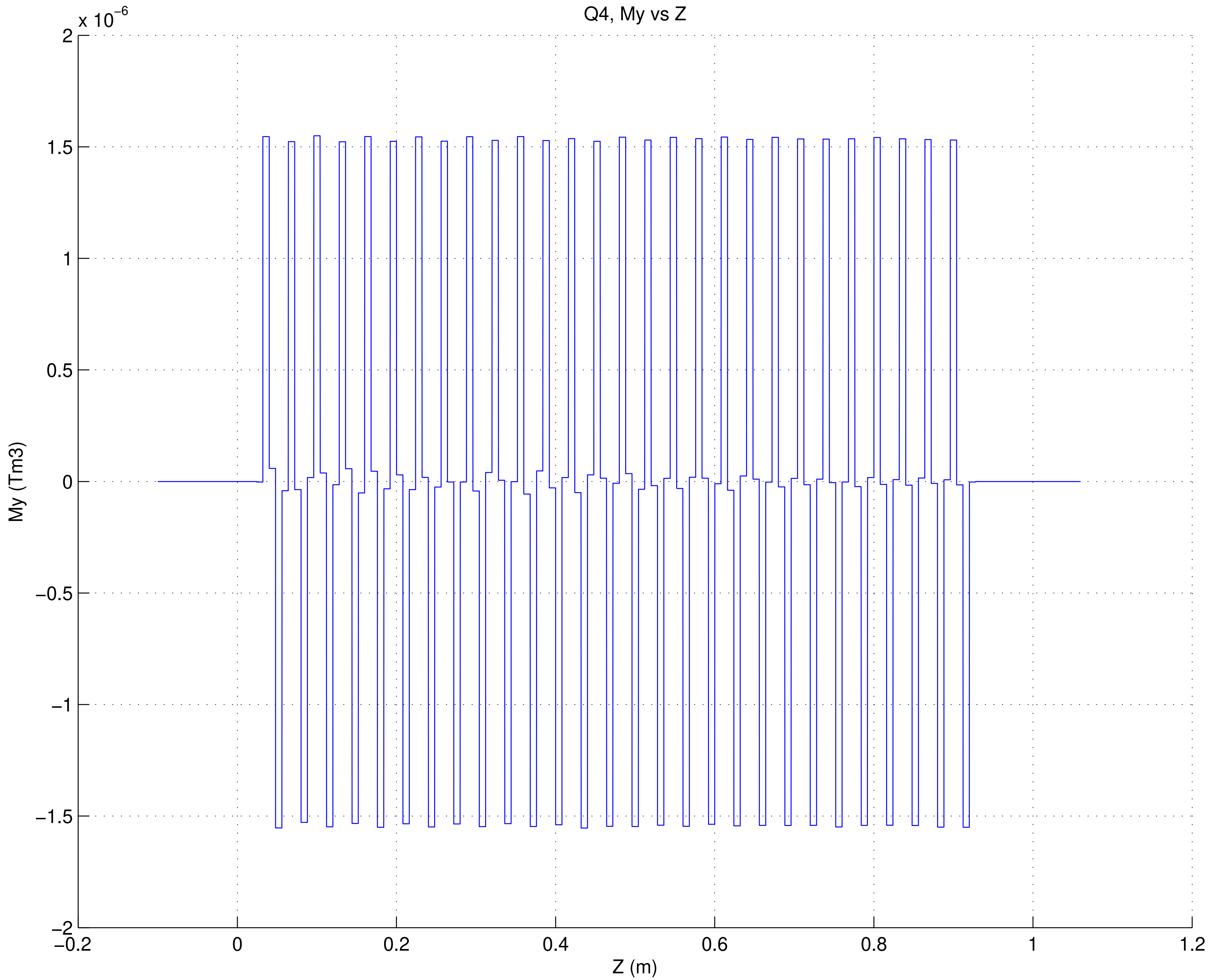

Q4, Mx vs Z
x 10^-7
Mx (Tm3)
Z (m)
1.5
1
0.5
0
−0.5
−1
−0.2
0
0.2
0.4
0.6
0.8
1
1.2



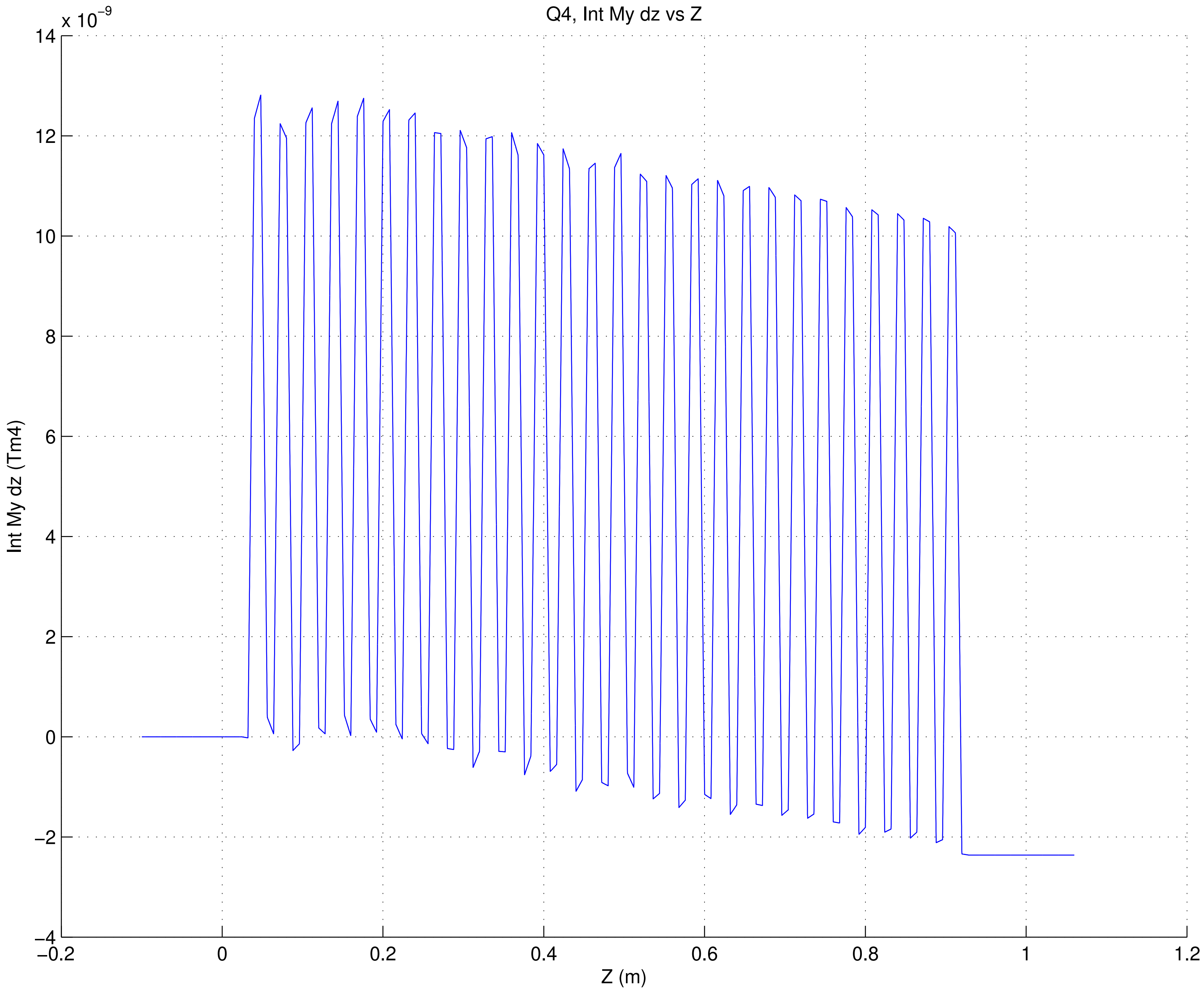
Q4, Int Mx dz vs Z
x 10^-9
1
0.5
0
−0.5
−1
−1.5
Int Mx dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

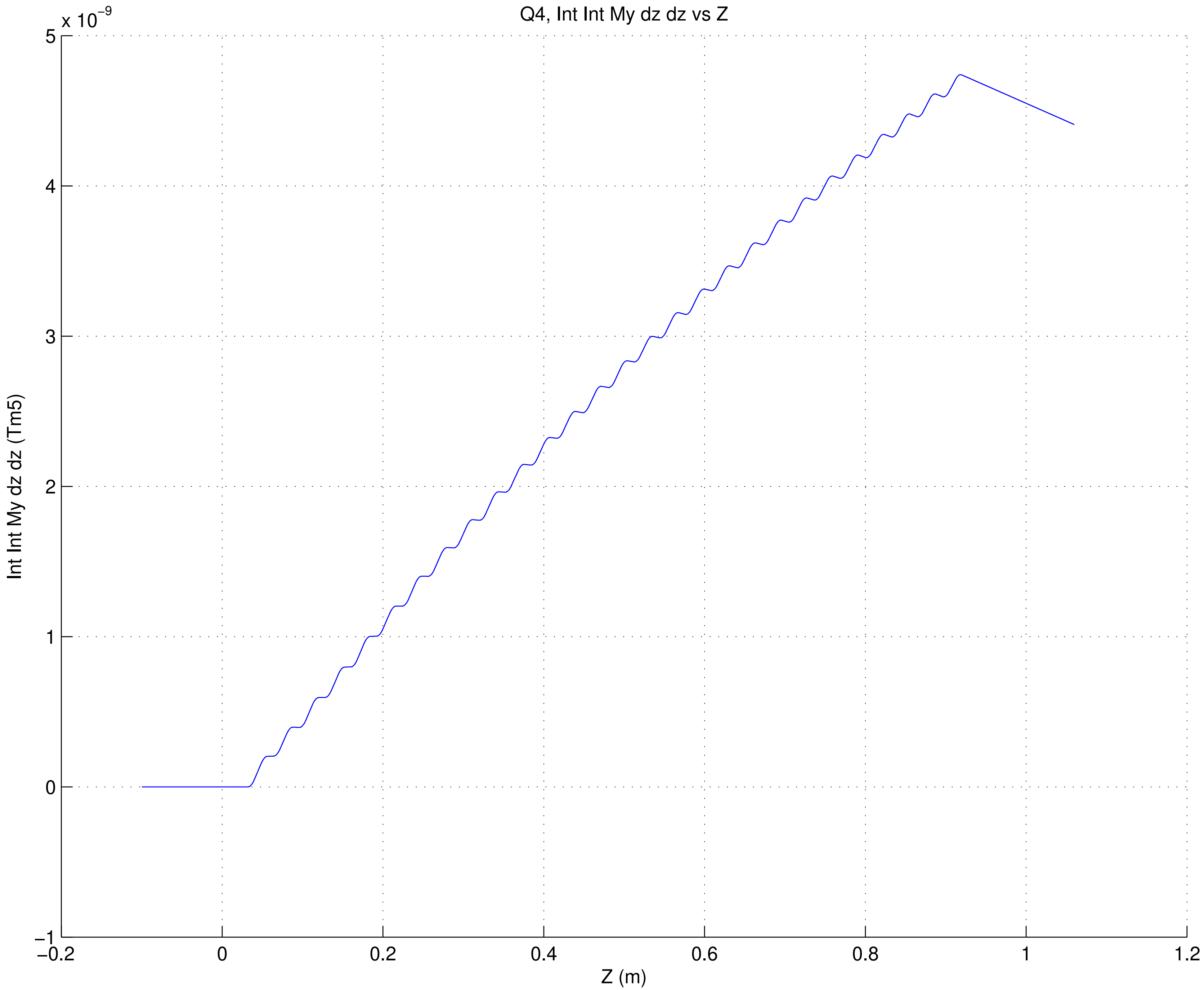


Q4, Int Int Mx dz dz vs Z
x 10^−10
1
0
−1
−2
−3
−4
−5
−6
Int Int Mx dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

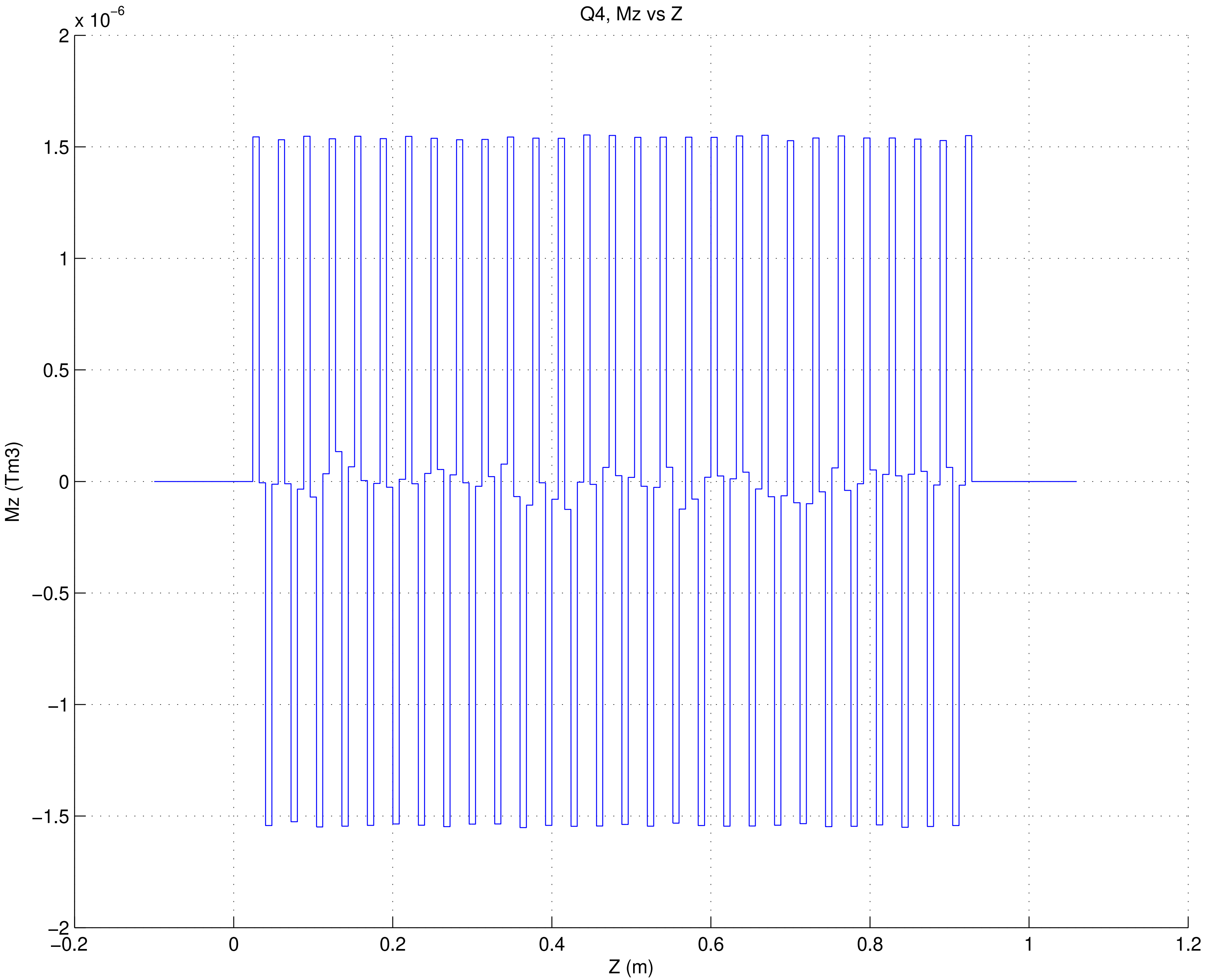


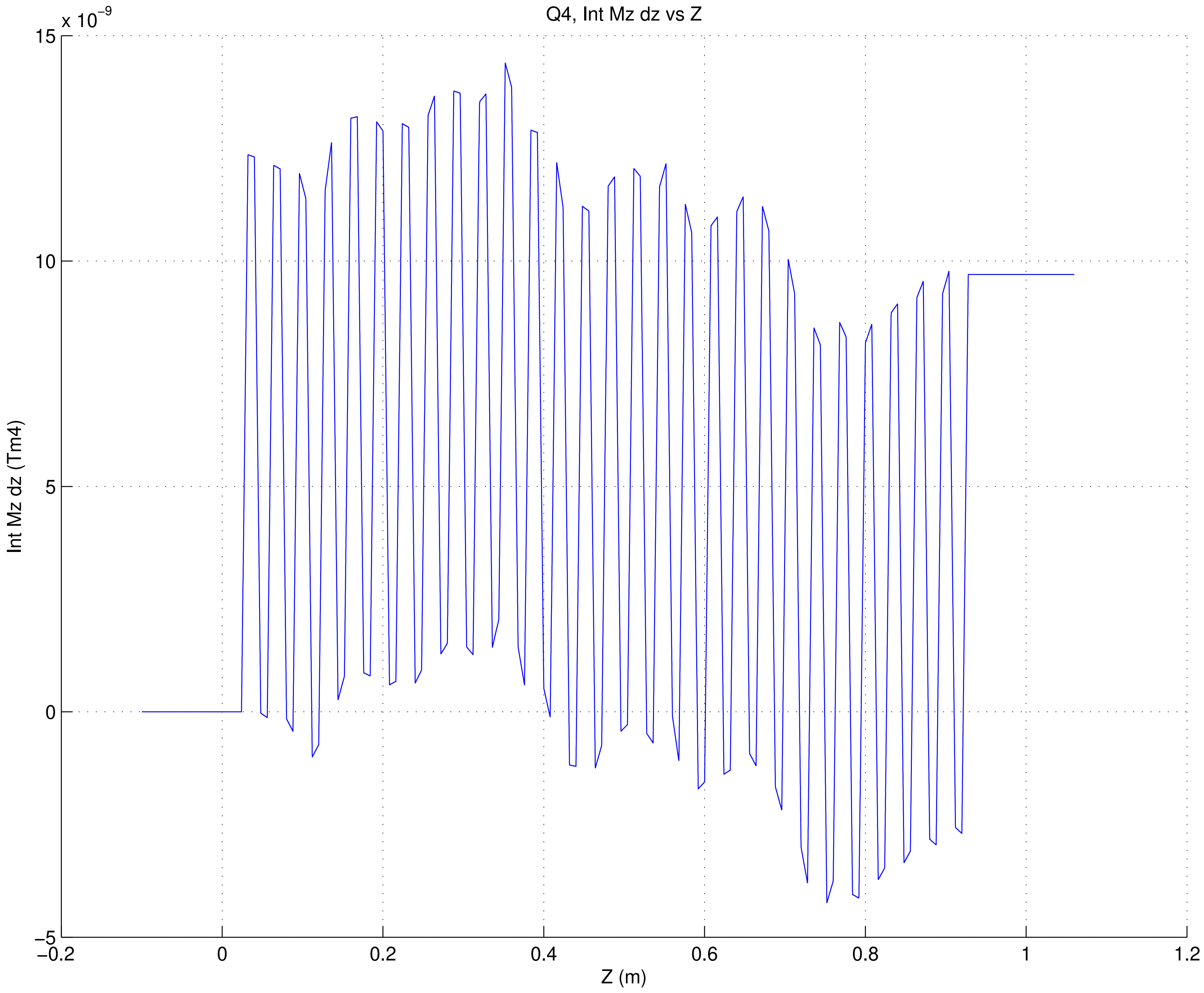
Q4, My vs Z
x 10^-6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
My (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)


Q4, Int My dz vs Z
x 10^-9
14
12
10
8
6
4
2
0
−2
−4
Int My dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)

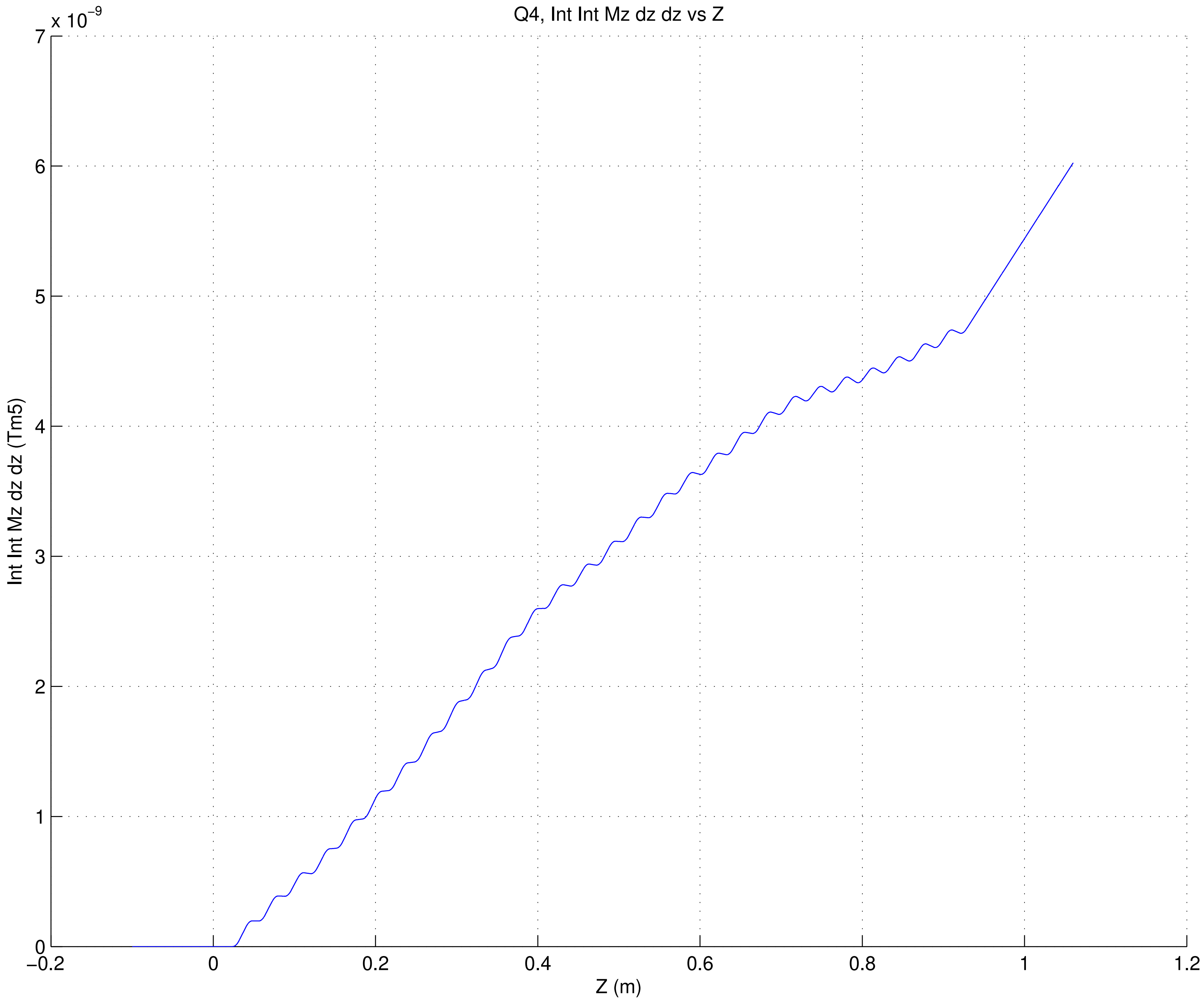


Q4, Int Int My dz dz vs Z
x 10^-9
5
4
3
2
1
0
−1
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Int Int My dz dz (Tm5)
Z (m)


Q4, Mz vs Z
x 10^-6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
Mz (Tm3)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



Q4, Int Mz dz vs Z
x 10^-9
15
10
5
0
−5
Int Mz dz (Tm4)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)



Q4, Int Int Mz dz dz vs Z
x 10^-9
7
6
5
4
3
2
1
0
Int Int Mz dz dz (Tm5)
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
Z (m)