

# Cell 15 Calibration - July 8, 2010 5:23

## Calibration Data

I [kA]	Field [T]	Error [T]
0.1	11.5304	0.00260
2.0	12.6449	0.00155
4.0	13.8223	0.00256
6.0	14.9979	0.00243
8.0	16.1741	0.00244
10.0	17.3493	0.00171
12.0	18.5251	0.00137
14.0	19.7014	0.00119
16.0	20.8774	0.00096
18.0	22.0530	0.00058
20.0	23.2286	0.00037
22.0	24.4045	0.00070
24.0	25.5800	0.00127
26.0	26.7562	0.00180
28.0	27.9320	0.00227
30.0	29.1077	0.00264
32.0	30.2834	0.00291
34.0	31.4588	0.00321
36.0	32.6353	0.00352
38.0	33.8118	0.00387
40.0	34.9876	0.00413
42.0	36.1638	0.00452
44.0	37.3395	0.00457
46.0	38.5146	0.00437
48.0	39.6891	0.00417
50.0	40.8639	0.00375
52.0	42.0391	0.00319
54.0	43.2128	0.00201
56.0	44.3876	0.00096
57.2	45.0921	0.00008

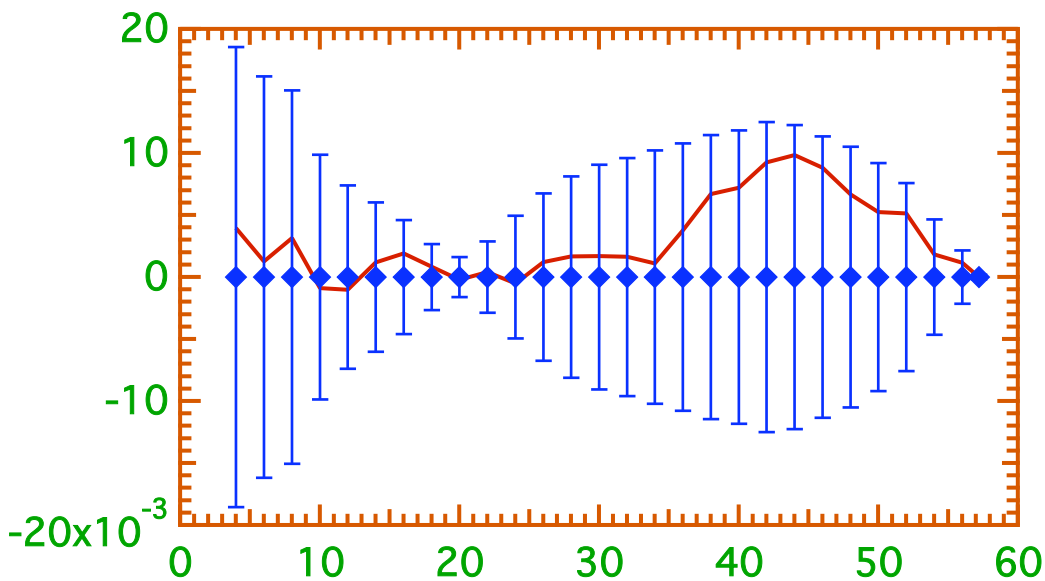
## Field Data

Field [T]	I [kA]
12.0	0.90
12.5	1.75
13.0	2.60
13.5	3.45
14.0	4.30
14.5	5.15
15.0	6.00
15.5	6.85
16.0	7.70
16.5	8.55
17.0	9.41
17.5	10.26
18.0	11.11
18.5	11.96
19.0	12.81
19.5	13.66
20.0	14.51
20.5	15.36
21.0	16.21
21.5	17.06
22.0	17.91
22.5	18.76
23.0	19.61
23.5	20.46
24.0	21.31
24.5	22.16
25.0	23.01
25.5	23.86
26.0	24.71
26.5	25.56
27.0	26.41
27.5	27.26
28.0	28.11
28.5	28.97
29.0	29.82
29.5	30.67
30.0	31.52
30.5	32.37
31.0	33.22
31.5	34.07
32.0	34.92
32.5	35.77
33.0	36.62
33.5	37.47
34.0	38.32
34.5	39.17
35.0	40.02
35.5	40.87
36.0	41.72
36.5	42.58
37.0	43.43
37.5	44.28
38.0	45.13
38.5	45.98
39.0	46.83
39.5	47.68
40.0	48.53
40.5	49.38
41.0	50.23
41.5	51.08
42.0	51.93
42.5	52.79
43.0	53.64
43.5	54.49
44.0	55.34
44.5	56.19
45.0	57.04

$$B = 11.47000 + 0.58795 \cdot I - 4.56 \cdot 10^{-8} \cdot I^3$$

$$I = -19.50360 + 1.70045 \cdot B + 2.57 \cdot 10^{-7} \cdot B^3$$

Fractional Error in Fit [%]



Current [kA]