

Cell 14 Calibration - Jan 26, 2017 2:16:14

Calibration Data

I [kA]	Field [T]	Error [T]
0.2	0.3619	0.00525
1.0	1.8178	0.00498
2.0	3.6393	0.00396
3.0	5.4609	0.00333
4.0	7.2806	0.00170
5.0	9.1010	0.00022
6.0	10.9215	0.00075
7.0	12.7422	0.00127
8.0	14.5626	0.00172
9.0	16.3811	0.00113
10.0	18.2039	0.00187
11.0	20.0232	0.00364
12.0	21.8422	0.00502
13.0	23.6605	0.00476
14.0	25.4811	0.00450
15.0	27.3001	0.00410
16.0	29.1186	0.00317
17.0	30.9380	0.00231
18.0	32.7593	0.00094
19.0	34.5804	0.00063
19.9	36.2178	0.00020

Field Data

Field [T]	I [kA]
0.5	0.28
1.0	0.55
1.5	0.82
2.0	1.10
2.5	1.37
3.0	1.65
3.5	1.92
4.0	2.20
4.5	2.47
5.0	2.75
5.5	3.02
6.0	3.30
6.5	3.57
7.0	3.85
7.5	4.12
8.0	4.40
8.5	4.67
9.0	4.94
9.5	5.22
10.0	5.49
10.5	5.77
11.0	6.04
11.5	6.32
12.0	6.59
12.5	6.87
13.0	7.14
13.5	7.42
14.0	7.69
14.5	7.97
15.0	8.24
15.5	8.52
16.0	8.79
16.5	9.06
17.0	9.34
17.5	9.61
18.0	9.89
18.5	10.16
19.0	10.44
19.5	10.71
20.0	10.99
20.5	11.26
21.0	11.54
21.5	11.81
22.0	12.09
22.5	12.36
23.0	12.64
23.5	12.91
24.0	13.19
24.5	13.46
25.0	13.74
25.5	14.01
26.0	14.28
26.5	14.56
27.0	14.83
27.5	15.11
28.0	15.38
28.5	15.66
29.0	15.93
29.5	16.21
30.0	16.48
30.5	16.76
31.0	17.03
31.5	17.31
32.0	17.58
32.5	17.86
33.0	18.13
33.5	18.41
34.0	18.68
34.5	18.96
35.0	19.23
35.5	19.51
36.0	19.78

$$B = 1.82022 * I - 5.80 * 10^{-7} * I^3$$

$$I = 0.54932 * B + 1.07 * 10^{-7} * B^3$$

