



BS-030

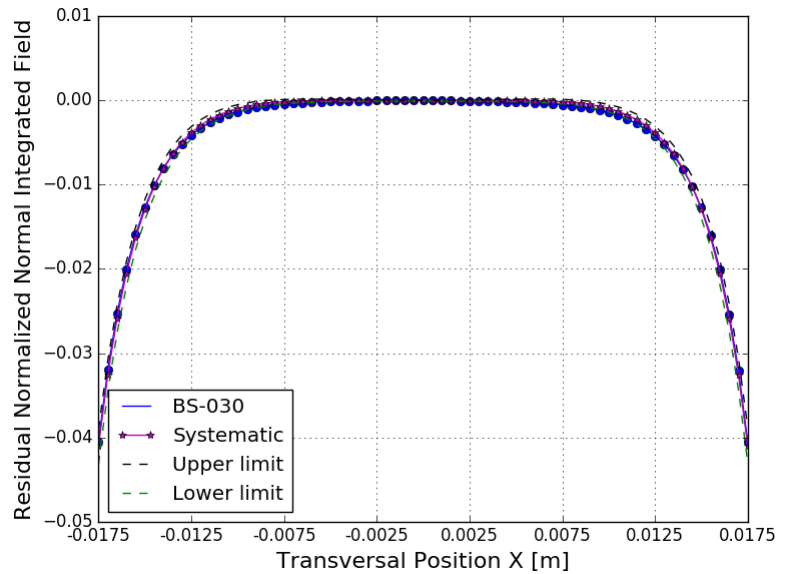
## BOOSTER MAGNET REPORT

### Results

Date	19/10/2016
Hour	12:31:30
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(149.966 ± 0.002)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4209 ± 0.0005)
Magnet Center Offset X [μm] - (< ±160.0)	(4.3 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-48.1 ± 0.2)
Roll [mrad] - (< ±0.8)	(9.1 ± 0.6) × E-2

### Electric Parameters

Inductance [mH]	0.109
Voltage [V]	--
Resistance [mΩ]	--
Main Coil Number of Turns	3



n	Normalized Normal Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-3.18 ± 0.03) × E-3	(-1.50 ± 0.02) × E-3
2 (quadrupole)	(4.9 ± 0.2) × E-4	(-5.49 ± 0.03) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(2.7 ± 0.2) × E-4
4	(-1.1 ± 0.2) × E-4	(-7.0 ± 0.2) × E-4
5	(-1.78 ± 0.03) × E-3	(-4.2 ± 43.7) × E-6
6	(7 ± 4) × E-5	(1.6 ± 38.3) × E-6
7	(-3.5 ± 0.6) × E-4	(-3 ± 4) × E-5
8	(-2.9 ± 48.7) × E-6	(5.2 ± 0.5) × E-4
9	(-2.165 ± 0.004) × E-2	(-4 ± 3) × E-5
10	(4 ± 2) × E-5	(3 ± 4) × E-5
11	(8 ± 6) × E-5	(2 ± 4) × E-5
12	(5.6 ± 47.1) × E-6	(-2 ± 4) × E-5
13	(-8.9 ± 86.2) × E-6	(-1 ± 7) × E-5
14	(-3 ± 7) × E-5	(6.0 ± 1.0) × E-4
15	(-1.683 ± 0.005) × E-2	(-9 ± 5) × E-5

