



BS-034

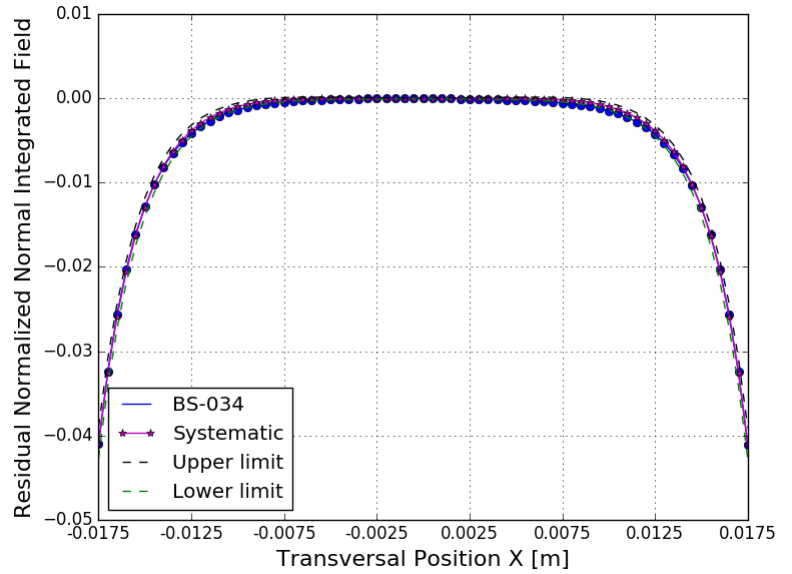
BOOSTER MAGNET REPORT

Results

Date	27/10/2016
Hour	16:34:40
Temperature [°C]	23.1
Number of Measurements	17
Main Coil Current [A]	(149.938 ± 0.001)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T.m]	(-21.4412 ± 0.0005)
Magnet Center Offset X [μm] - (< ±160.0)	(6 ± 2) × E-1
Magnet Center Offset Y [μm] - (< ±160.0)	(-38.2 ± 0.3)
Roll [mrad] - (< ±0.8)	(-4.2 ± 0.4) × E-2

Electric Parameters

Inductance [mH]	0.111
Voltage [V]	--
Resistance [mΩ]	--
Main Coil Number of Turns	3



n	Normalized Normal Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-3.70 ± 0.02) × E-3	(-1.86 ± 0.02) × E-3
2 (quadrupole)	(6 ± 2) × E-5	(-4.36 ± 0.04) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-1.3 ± 0.1) × E-4
4	(-1.6 ± 0.1) × E-4	(-7.5 ± 0.2) × E-4
5	(-1.79 ± 0.02) × E-3	(3 ± 3) × E-5
6	(1.4 ± 0.3) × E-4	(5 ± 2) × E-5
7	(-4.3 ± 0.3) × E-4	(2 ± 2) × E-5
8	(5 ± 3) × E-5	(3.9 ± 0.3) × E-4
9	(-2.179 ± 0.003) × E-2	(-2 ± 4) × E-5
10	(1.1 ± 36.6) × E-6	(4 ± 5) × E-5
11	(1.3 ± 0.4) × E-4	(5.5 ± 49.4) × E-6
12	(-2 ± 2) × E-5	(-1 ± 4) × E-5
13	(-3 ± 5) × E-5	(-1.6 ± 36.6) × E-6
14	(-4 ± 6) × E-5	(5.2 ± 0.2) × E-4
15	(-1.716 ± 0.004) × E-2	(3 ± 6) × E-5

