



BS-036

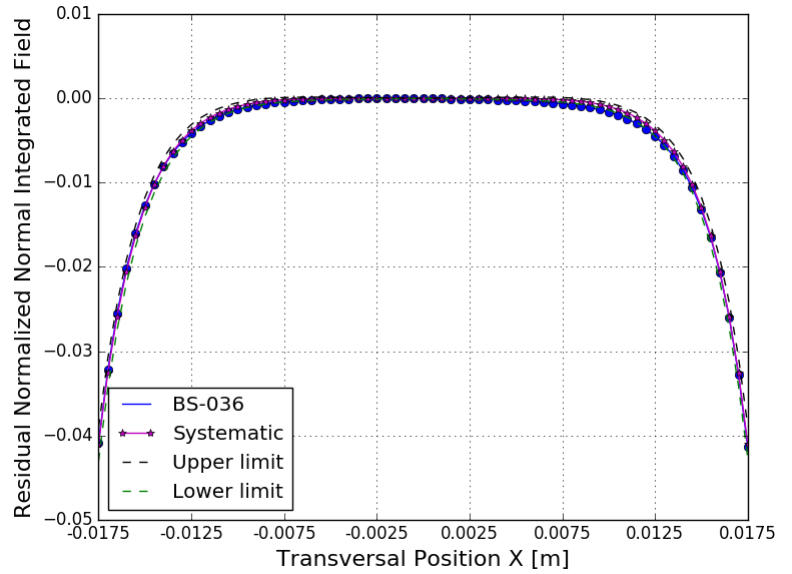
## BOOSTER MAGNET REPORT

### Results

Date	28/10/2016
Hour	10:11:01
Temperature [°C]	23.1
Number of Measurements	17
Main Coil Current [A]	(149.947 ± 0.002)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4495 ± 0.0005)
Magnet Center Offset X [μm] - (< ±160.0)	(5.9 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-30.1 ± 0.2)
Roll [mrad] - (< ±0.8)	(4.0 ± 0.7) × E-2

### Electric Parameters

Inductance [mH]	0.110
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)	(-4.15 ± 0.02) × E-3	(-2.42 ± 0.03) × E-3
2 (quadrupole)	(6.8 ± 0.2) × E-4	(-3.44 ± 0.02) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(1.2 ± 0.2) × E-4
4	(-2.8 ± 0.3) × E-4	(-6.7 ± 0.4) × E-4
5	(-1.98 ± 0.04) × E-3	(1.4 ± 0.5) × E-4
6	(4 ± 4) × E-5	(-4 ± 5) × E-5
7	(-4.2 ± 0.3) × E-4	(7 ± 2) × E-5
8	(8.1 ± 29.5) × E-6	(2.4 ± 0.3) × E-4
9	(-2.173 ± 0.004) × E-2	(-7 ± 3) × E-5
10	(5 ± 4) × E-5	(1 ± 4) × E-5
11	(9 ± 7) × E-5	(-3 ± 9) × E-5
12	(-1 ± 9) × E-5	(-5 ± 9) × E-5
13	(-2 ± 6) × E-5	(8.9 ± 27.8) × E-6
14	(-8 ± 4) × E-5	(4.9 ± 0.4) × E-4
15	(-1.707 ± 0.008) × E-2	(-6 ± 7) × E-5

