



# BS-032

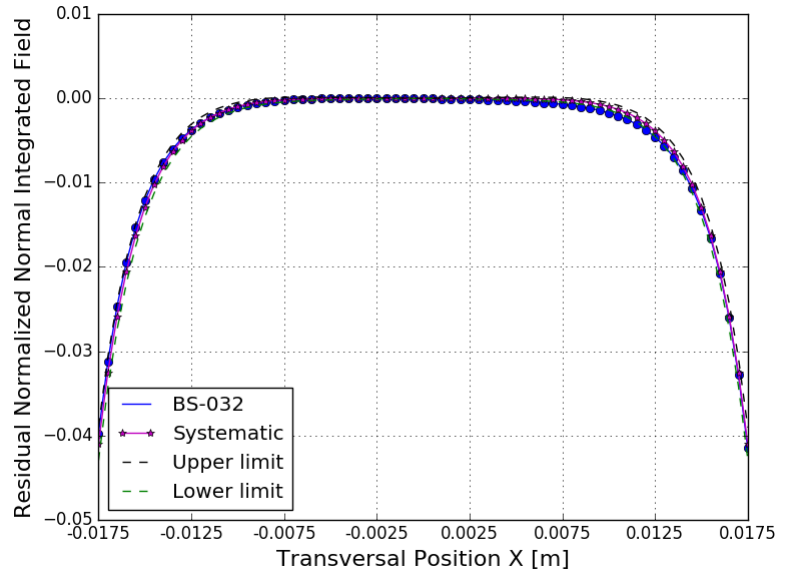
## BOOSTER MAGNET REPORT

### Results

Date	20/10/2016
Hour	13:05:39
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(149.938 ± 0.001)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4536 ± 0.0007)
Magnet Center Offset X [μm] - (< ±160.0)	(12.8 ± 0.1)
Magnet Center Offset Y [μm] - (< ±160.0)	(-33.0 ± 0.4)
Roll [mrad] - (< ±0.8)	(1.01 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	0.108
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)	(-3.91 ± 0.03) × E-3	(-1.81 ± 0.02) × E-3
2 (quadrupole)	(1.47 ± 0.02) × E-3	(-3.77 ± 0.05) × E-3
3 (sextupole)	(1.00000 ± 0.00003)	(3.0 ± 0.1) × E-4
4	(-5.7 ± 0.2) × E-4	(-1.26 ± 0.03) × E-3
5	(-1.72 ± 0.03) × E-3	(-4 ± 4) × E-5
6	(9.5 ± 21.3) × E-6	(-7 ± 3) × E-5
7	(-3.6 ± 0.3) × E-4	(4 ± 4) × E-5
8	(-1.3 ± 0.3) × E-4	(4.3 ± 0.4) × E-4
9	(-2.173 ± 0.002) × E-2	(-3 ± 4) × E-5
10	(8 ± 6) × E-5	(3 ± 7) × E-5
11	(8 ± 6) × E-5	(3 ± 8) × E-5
12	(-4 ± 3) × E-5	(6 ± 4) × E-5
13	(-2 ± 5) × E-5	(-3 ± 4) × E-5
14	(-2.1 ± 0.3) × E-4	(5.4 ± 0.5) × E-4
15	(-1.687 ± 0.004) × E-2	(1 ± 5) × E-5

