



BS-019

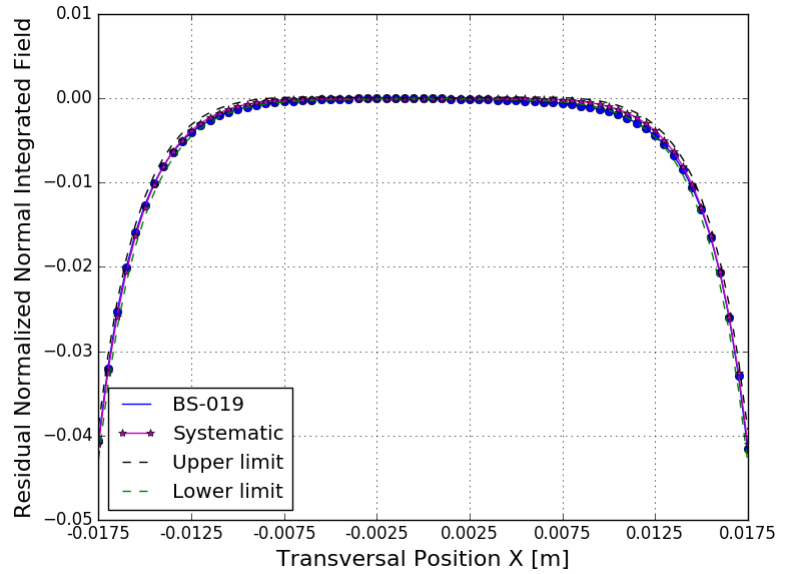
## BOOSTER MAGNET REPORT

### Results

Date	24/10/2016
Hour	13:53:10
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(149.956 ± 0.002)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4228 ± 0.0006)
Magnet Center Offset X [μm] - (< ±160.0)	(12.5 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-36.3 ± 0.2)
Roll [mrad] - (< ±0.8)	(-2.7 ± 0.5) × 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)	(-3.83 ± 0.02) × E-3	(-2.02 ± 0.02) × E-3
2 (quadrupole)	(1.43 ± 0.02) × E-3	(-4.15 ± 0.02) × E-3
3 (sextupole)	(1.00000 ± 0.00003)	(-8 ± 2) × E-5
4	(-2.7 ± 0.2) × E-4	(-1.30 ± 0.03) × E-3
5	(-1.85 ± 0.04) × E-3	(3.0 ± 22.4) × E-6
6	(1.1 ± 0.1) × E-4	(6.7 ± 22.7) × E-6
7	(-4.2 ± 0.4) × E-4	(3 ± 3) × E-5
8	(-1.1 ± 0.4) × E-4	(4.3 ± 0.3) × E-4
9	(-2.179 ± 0.003) × E-2	(-5 ± 4) × E-5
10	(3 ± 6) × E-5	(8 ± 8) × E-5
11	(9 ± 6) × E-5	(-3 ± 8) × E-5
12	(2.8 ± 45.0) × E-6	(-4 ± 7) × E-5
13	(-8.9 ± 43.3) × E-6	(-3 ± 4) × E-5
14	(-2.5 ± 0.7) × E-4	(5.6 ± 0.3) × E-4
15	(-1.716 ± 0.006) × E-2	(-2 ± 6) × E-5

