



# BS-007

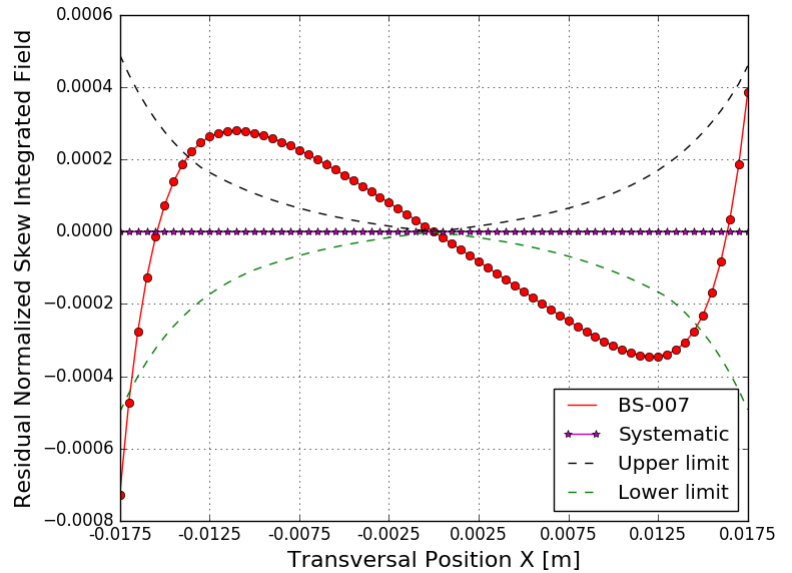
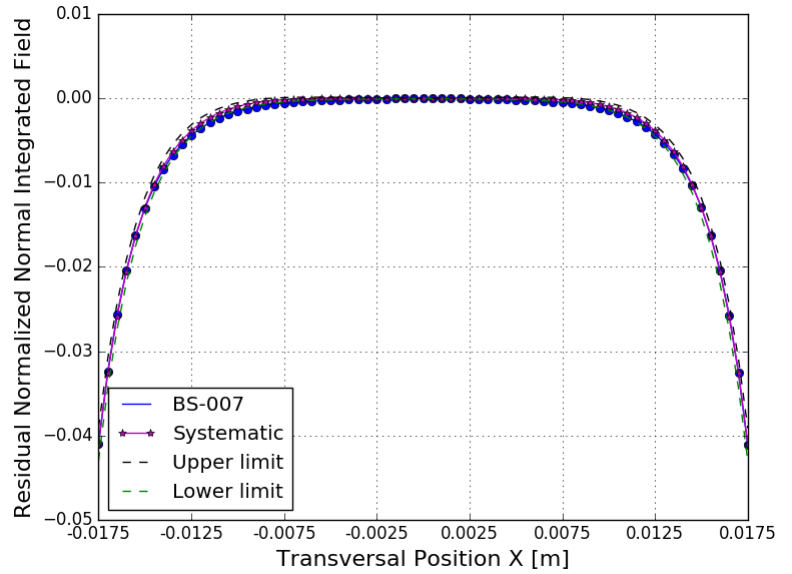
## BOOSTER MAGNET REPORT

### Results

Date	14/10/2016
Hour	10:23:28
Temperature [°C]	23.1
Number of Measurements	17
Main Coil Current [A]	(149.81 ± 0.04)
Trim Coil Current [A]	--
Integrated Gradient [T/m]	(-21.4056 ± 0.0004)
Magnet Center Offset X [μm] - (< ±160.0)	(12.1 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-44.9 ± 0.2)
Roll [mrad] - (< ±0.8)	(-1.27 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	--
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)	(-3.34 ± 0.03) × E-3	(-1.26 ± 0.02) × E-3
2 (quadrupole)	(1.38 ± 0.02) × E-3	(-5.13 ± 0.02) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-3.8 ± 0.1) × E-4
4	(6 ± 3) × E-5	(-5.7 ± 0.3) × E-4
5	(-2.00 ± 0.04) × E-3	(-4 ± 2) × E-5
6	(1.4 ± 0.2) × E-4	(1 ± 3) × E-5
7	(-4.5 ± 0.2) × E-4	(-5 ± 2) × E-5
8	(-9 ± 2) × E-5	(4.2 ± 0.2) × E-4
9	(-2.170 ± 0.003) × E-2	(-5 ± 4) × E-5
10	(-3 ± 5) × E-5	(2 ± 5) × E-5
11	(1.1 ± 0.6) × E-4	(2 ± 5) × E-5
12	(-3 ± 6) × E-5	(3 ± 7) × E-5
13	(-5.2 ± 10.8) × E-5	(2 ± 8) × E-5
14	(-1.5 ± 0.8) × E-4	(6.4 ± 0.8) × E-4
15	(-1.696 ± 0.005) × E-2	(-7 ± 5) × E-5