



# BQF-049

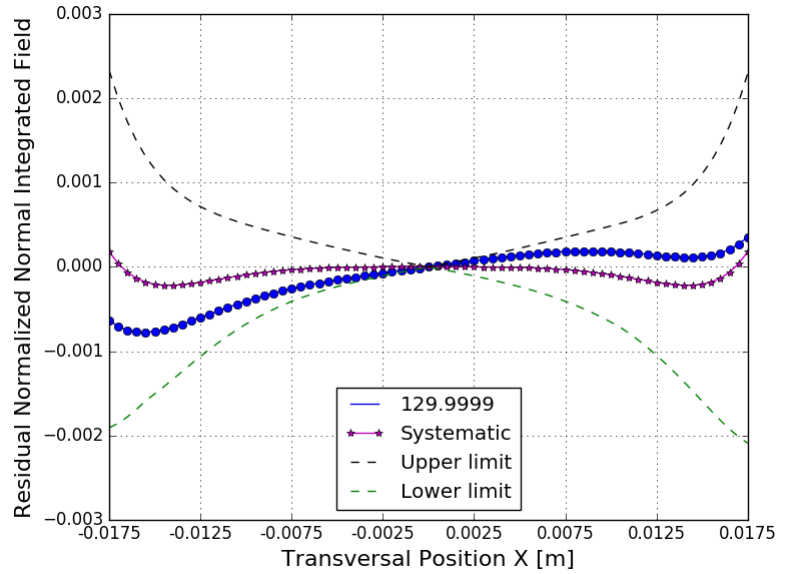
## BOOSTER MAGNET REPORT

### Results

Date	01/04/2016
Hour	09:31:50
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(129.9999 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.823848 ± 0.000007)
Magnet Center Offset X [μm] - (< ±160.0)	(17.56 ± 0.07)
Magnet Center Offset Y [μm] - (< ±160.0)	(-32.03 ± 0.10)
Roll [mrad] - (< ±0.8)	(-3.68 ± 0.06) × E-1

### Electric Parameters

Inductance [mH]	8.390
Voltage [V]	0.478
Resistance [mΩ]	3.677
Main Coil Number of Turns	26.25



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)	(1.003 ± 0.004) × E-3	(-1.831 ± 0.005) × E-3
2 (quadrupole)	(1.000000 ± 0.000002)	(-7.36 ± 0.04) × E-4
3 (sextupole)	(5.11 ± 0.03) × E-4	(-4.38 ± 0.05) × E-4
4	(4 ± 3) × E-6	(1.07 ± 0.03) × E-4
5	(1.4 ± 0.5) × E-5	(2 ± 5) × E-6
6	(-1.179 ± 0.002) × E-3	(-9 ± 5) × E-6
7	(3 ± 4) × E-6	(-2.2 ± 0.6) × E-5
8	(-7 ± 3) × E-6	(-5.3 ± 0.4) × E-5
9	(5.9 ± 34.7) × E-7	(2.7 ± 0.4) × E-5
10	(1.118 ± 0.005) × E-3	(1.4 ± 0.3) × E-5
11	(-1.3 ± 0.4) × E-5	(-2.8 ± 0.2) × E-5
12	(1.3 ± 0.4) × E-5	(-2.9 ± 0.6) × E-5
13	(1.5 ± 0.4) × E-5	(2.1 ± 0.6) × E-5
14	(-8.8 ± 0.6) × E-5	(2.0 ± 0.4) × E-5
15	(-3.7 ± 0.7) × E-5	(3 ± 10) × E-6

