



# BQF-018

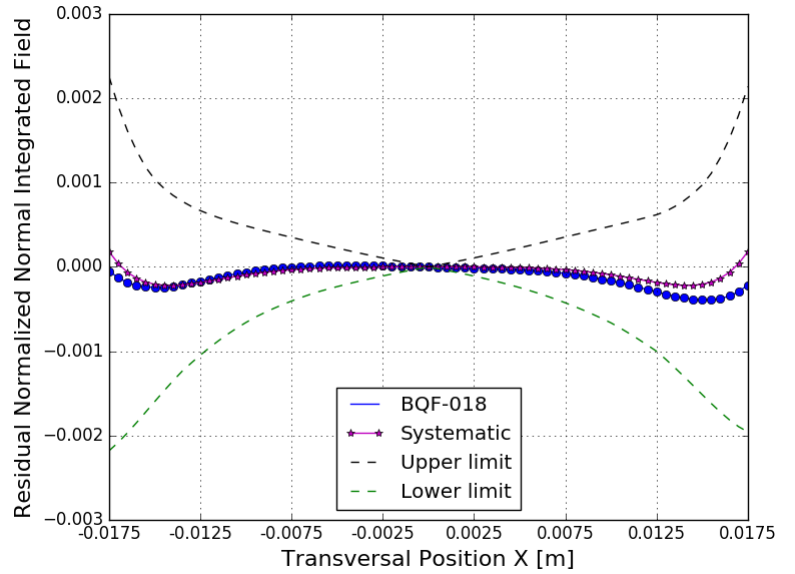
## BOOSTER MAGNET REPORT

### Results

Date	30/03/2016
Hour	12:28:38
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0175 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.823961 ± 0.000009)
Magnet Center Offset X [μm] - (< ±160.0)	(-12.76 ± 0.03)
Magnet Center Offset Y [μm] - (< ±160.0)	(-32.76 ± 0.06)
Roll [mrad] - (< ±0.8)	(-5.75 ± 0.03) × E-1

### Electric Parameters

Inductance [mH]	8.26
Voltage [V]	0.487
Resistance [mΩ]	48.70
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)	(-7.29 ± 0.02) × E-4	(-1.872 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000002)	(-1.150 ± 0.002) × E-3
3 (sextupole)	(-8.4 ± 0.4) × E-5	(-5.95 ± 0.04) × E-4
4	(-1.5 ± 0.3) × E-5	(8.0 ± 0.4) × E-5
5	(-4.0 ± 0.3) × E-5	(-3.2 ± 0.3) × E-5
6	(-1.138 ± 0.003) × E-3	(-7 ± 3) × E-6
7	(7.1 ± 0.3) × E-5	(1.0 ± 0.4) × E-5
8	(-2.1 ± 0.3) × E-5	(-1.9 ± 0.4) × E-5
9	(-3.7 ± 0.4) × E-5	(-1.4 ± 0.6) × E-5
10	(1.135 ± 0.003) × E-3	(-2.5 ± 0.3) × E-5
11	(2.5 ± 0.5) × E-5	(-6 ± 4) × E-6
12	(-6 ± 6) × E-6	(1.6 ± 0.7) × E-5
13	(-2.8 ± 0.5) × E-5	(3 ± 4) × E-6
14	(-8.8 ± 0.4) × E-5	(-2.8 ± 0.4) × E-5
15	(9 ± 5) × E-6	(-10 ± 4) × E-6

