



# BQF-027

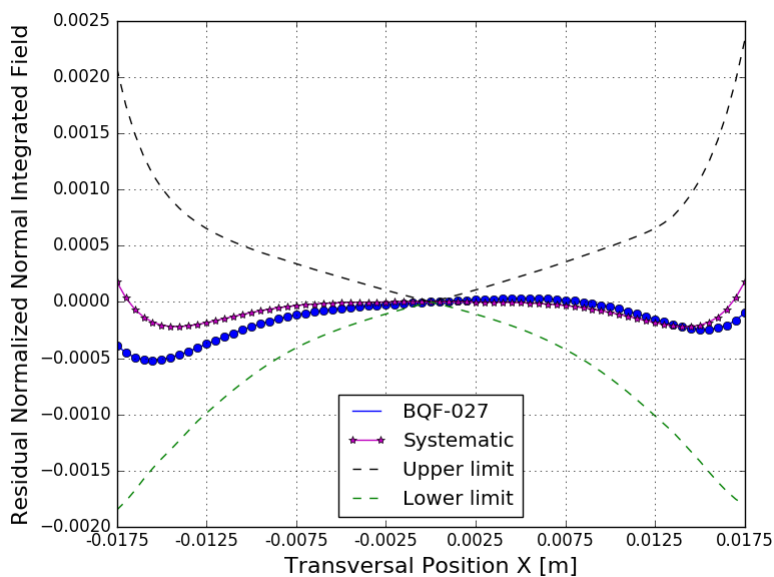
## BOOSTER MAGNET REPORT

### Results

Date	11/04/2016
Hour	15:11:36
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0071 \pm 0.0004)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.821660 \pm 0.000008)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(20.02 \pm 0.06)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-39.30 \pm 0.07)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-3.13 \pm 0.04) \times E-1$

### Electric Parameters

Inductance [mH]	8.311
Voltage [V]	0.480
Resistance [ $\text{m}\Omega$ ]	48.00
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [ $\text{T}\cdot\text{m}^{(2-n)}$ ]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [ $\text{T}\cdot\text{m}^{(2-n)}$ ]
1 (dipole)	$(1.144 \pm 0.003) \times E-3$	$(-2.246 \pm 0.004) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000002)$	$(-6.26 \pm 0.02) \times E-4$
3 (sextupole)	$(1.53 \pm 0.03) \times E-4$	$(-2.88 \pm 0.04) \times E-4$
4	$(-5.6 \pm 0.2) \times E-5$	$(1.43 \pm 0.05) \times E-4$
5	$(-4 \pm 3) \times E-6$	$(-2.6 \pm 0.3) \times E-5$
6	$(-1.176 \pm 0.004) \times E-3$	$(8.5 \pm 29.1) \times E-7$
7	$(3.0 \pm 0.3) \times E-5$	$(-2.9 \pm 0.4) \times E-5$
8	$(-1.2 \pm 0.5) \times E-5$	$(-5.1 \pm 0.4) \times E-5$
9	$(-2.0 \pm 0.4) \times E-5$	$(5 \pm 6) \times E-6$
10	$(1.090 \pm 0.004) \times E-3$	$(-1 \pm 6) \times E-6$
11	$(8 \pm 5) \times E-6$	$(-1.6 \pm 0.5) \times E-5$
12	$(3 \pm 6) \times E-6$	$(1.1 \pm 0.6) \times E-5$
13	$(-1.6 \pm 0.3) \times E-5$	$(1.9 \pm 0.5) \times E-5$
14	$(-9.1 \pm 0.4) \times E-5$	$(-9 \pm 5) \times E-6$
15	$(-6 \pm 4) \times E-6$	$(-1.2 \pm 0.6) \times E-5$

