

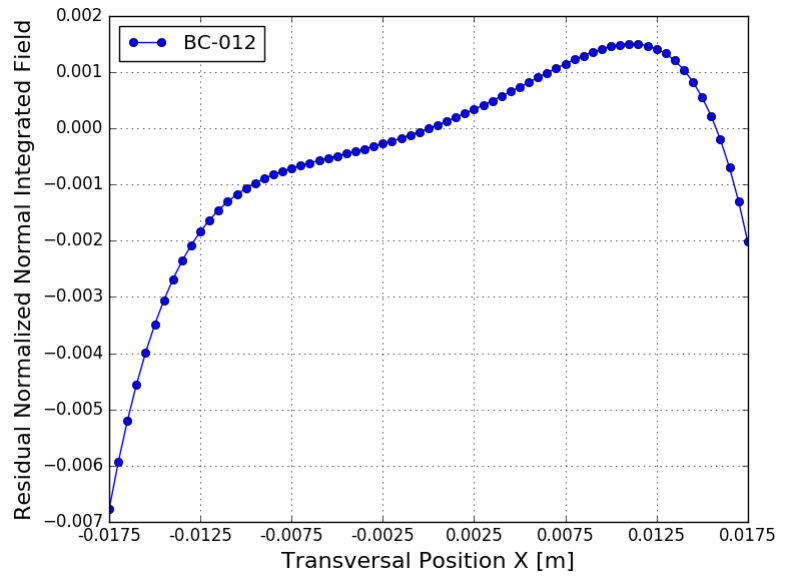


BC-012

## BOOSTER MAGNET REPORT

### Results

Date	17/03/2015
Hour	14:13:00
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.978 \pm 0.005)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3938 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(3 \pm 1) \times E-1$
Electric Parameters	
Indutance [mH]	3.159
Voltage [V]	0.692
Resistance [m $\Omega$ ]	76.882
Main Coil Number of Turns	38.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]
1 (dipole)	$(1.00000 \pm 0.00006)$	$(3.5 \pm 0.4) \times E-4$
2 (quadrupole)	$(2.14 \pm 0.05) \times E-3$	$(5 \pm 1) \times E-4$
3 (sextupole)	$(1.74 \pm 0.07) \times E-3$	$(2.1 \pm 0.7) \times E-4$
4	$(7.1 \pm 11.7) \times E-5$	$(7 \pm 9) \times E-5$
5	$(-2.11 \pm 0.07) \times E-3$	$(-1 \pm 1) \times E-4$
6	$(4.6 \pm 0.9) \times E-4$	$(4.3 \pm 0.8) \times E-4$
7	$(-4.14 \pm 0.10) \times E-3$	$(1.5 \pm 0.9) \times E-4$
8	$(-2 \pm 8) \times E-5$	$(3 \pm 1) \times E-4$
9	$(-2 \pm 1) \times E-4$	$(-1 \pm 1) \times E-4$
10	$(-2 \pm 1) \times E-4$	$(2.3 \pm 0.8) \times E-4$
11	$(6 \pm 1) \times E-4$	$(8.1 \pm 14.7) \times E-5$
12	$(-1 \pm 2) \times E-4$	$(-4.7 \pm 11.8) \times E-5$
13	$(-1 \pm 1) \times E-4$	$(1.9 \pm 11.8) \times E-5$
14	$(7.22 \pm 827.02) \times E-7$	$(-5.7 \pm 13.1) \times E-5$
15	$(-2 \pm 2) \times E-4$	$(4 \pm 9) \times E-5$

