



BC-032

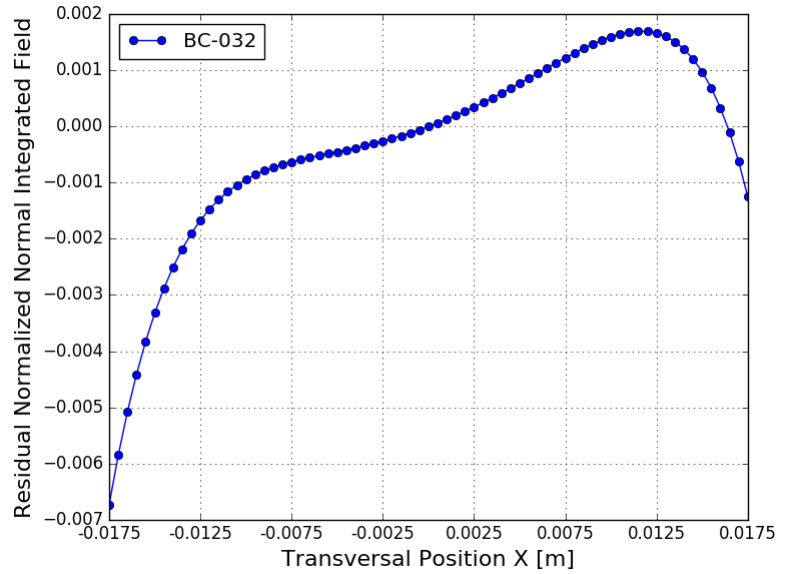
## BOOSTER MAGNET REPORT

### Results

Date	23/03/2015
Hour	12:13:44
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.981 \pm 0.003)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3820 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.62 \pm 0.04)$

### Electric Parameters

Indutance [mH]	3.129
Voltage [V]	0.675
Resistance [m $\Omega$ ]	75.030
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)	$(1.00000 \pm 0.00005)$	$(-1.62 \pm 0.01) \times E-3$
2 (quadrupole)	$(2.12 \pm 0.05) \times E-3$	$(6.0 \pm 0.5) \times E-4$
3 (sextupole)	$(2.15 \pm 0.04) \times E-3$	$(5 \pm 5) \times E-5$
4	$(1.0 \pm 0.6) \times E-4$	$(-7 \pm 5) \times E-5$
5	$(-2.25 \pm 0.05) \times E-3$	$(-3.1 \pm 0.9) \times E-4$
6	$(6.6 \pm 0.7) \times E-4$	$(1.6 \pm 0.7) \times E-4$
7	$(-3.93 \pm 0.07) \times E-3$	$(3.4 \pm 0.8) \times E-4$
8	$(-1 \pm 5) \times E-5$	$(-5 \pm 5) \times E-5$
9	$(-7 \pm 3) \times E-5$	$(-1.2 \pm 0.6) \times E-4$
10	$(-1.7 \pm 0.8) \times E-4$	$(-2 \pm 7) \times E-5$
11	$(3.6 \pm 0.6) \times E-4$	$(-4 \pm 8) \times E-5$
12	$(3 \pm 5) \times E-5$	$(3 \pm 5) \times E-5$
13	$(-2.0 \pm 0.4) \times E-4$	$(-8 \pm 6) \times E-5$
14	$(8.1 \pm 48.9) \times E-6$	$(5 \pm 7) \times E-5$
15	$(-5 \pm 7) \times E-5$	$(-7 \pm 4) \times E-5$

