



BC-028

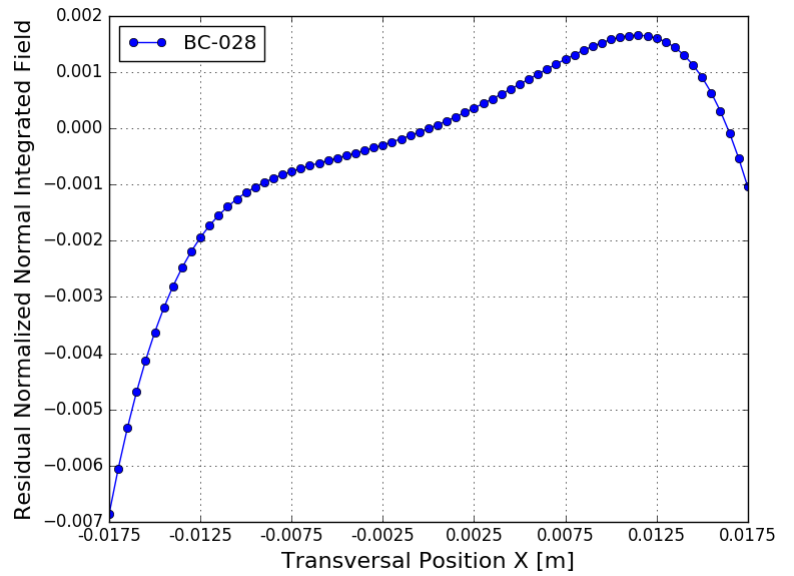
## BOOSTER MAGNET REPORT

### Results

Date	20/03/2015
Hour	14:57:18
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.979 \pm 0.002)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3906 \pm 0.0003) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.63 \pm 0.08)$

### Electric Parameters

Indutance [mH]	3.168
Voltage [V]	0.690
Resistance [m $\Omega$ ]	76.638
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)	$(1.00000 \pm 0.00007)$	$(-1.63 \pm 0.03) \times E-3$
2 (quadrupole)	$(2.29 \pm 0.05) \times E-3$	$(1.6 \pm 0.5) \times E-4$
3 (sextupole)	$(1.81 \pm 0.07) \times E-3$	$(2.4 \pm 0.4) \times E-4$
4	$(7 \pm 6) \times E-5$	$(9 \pm 5) \times E-5$
5	$(-2.15 \pm 0.05) \times E-3$	$(-2.7 \pm 0.6) \times E-4$
6	$(7.0 \pm 0.5) \times E-4$	$(1.7 \pm 0.4) \times E-4$
7	$(-4.12 \pm 0.04) \times E-3$	$(3.0 \pm 0.5) \times E-4$
8	$(-1.0 \pm 0.5) \times E-4$	$(4.6 \pm 39.6) \times E-6$
9	$(-4 \pm 5) \times E-5$	$(-1.1 \pm 0.7) \times E-4$
10	$(-2.1 \pm 0.7) \times E-4$	$(-3 \pm 4) \times E-5$
11	$(5.1 \pm 0.5) \times E-4$	$(1 \pm 4) \times E-5$
12	$(4 \pm 7) \times E-5$	$(-4 \pm 4) \times E-5$
13	$(-1.4 \pm 44.9) \times E-6$	$(4 \pm 7) \times E-5$
14	$(1.2 \pm 0.6) \times E-4$	$(2 \pm 6) \times E-5$
15	$(3 \pm 6) \times E-5$	$(6 \pm 4) \times E-5$

