



BC-023

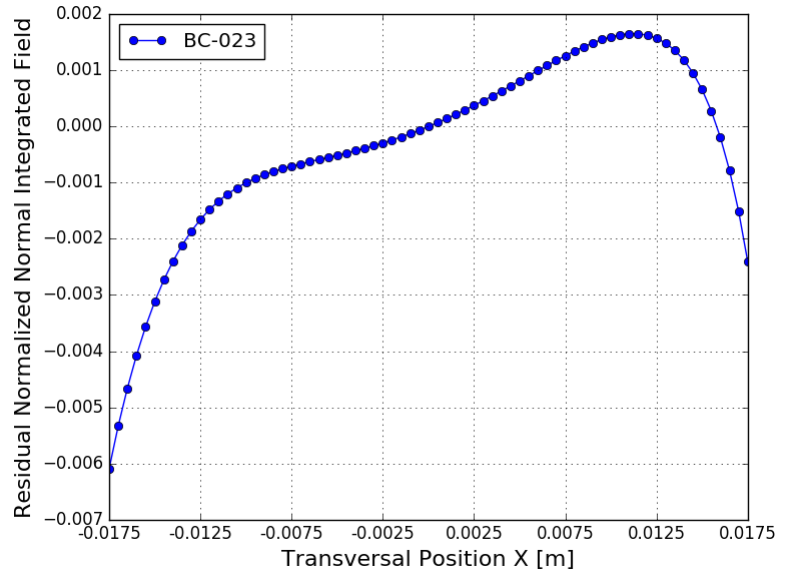
## BOOSTER MAGNET REPORT

### Results

Date	19/03/2015
Hour	16:25:43
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.979 \pm 0.007)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3864 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-7 \pm 1) \times E-1$

### Electric Parameters

Indutance [mH]	3.173
Voltage [V]	0.680
Resistance [m $\Omega$ ]	75.544
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)	$(1.00000 \pm 0.00007)$	$(-6.5 \pm 0.3) \times E-4$
2 (quadrupole)	$(2.3 \pm 0.1) \times E-3$	$(8 \pm 1) \times E-4$
3 (sextupole)	$(2.0 \pm 0.2) \times E-3$	$(4 \pm 2) \times E-4$
4	$(-4 \pm 1) \times E-4$	$(9.6 \pm 15.7) \times E-5$
5	$(-2.2 \pm 0.1) \times E-3$	$(-6 \pm 2) \times E-4$
6	$(5 \pm 2) \times E-4$	$(3.93 \pm 208.62) \times E-6$
7	$(-3.9 \pm 0.2) \times E-3$	$(7.7 \pm 15.2) \times E-5$
8	$(-2.9 \pm 13.1) \times E-5$	$(-6.7 \pm 19.2) \times E-5$
9	$(1 \pm 2) \times E-4$	$(-3 \pm 1) \times E-4$
10	$(-1 \pm 2) \times E-4$	$(-4.1 \pm 20.9) \times E-5$
11	$(3 \pm 1) \times E-4$	$(-2 \pm 2) \times E-4$
12	$(-3 \pm 2) \times E-4$	$(6.55 \pm 216.28) \times E-6$
13	$(-4 \pm 1) \times E-4$	$(5.4 \pm 13.5) \times E-5$
14	$(-2 \pm 1) \times E-4$	$(-5.8 \pm 21.6) \times E-5$
15	$(-2 \pm 2) \times E-4$	$(5.81 \pm 134.84) \times E-6$

