



# BC-014

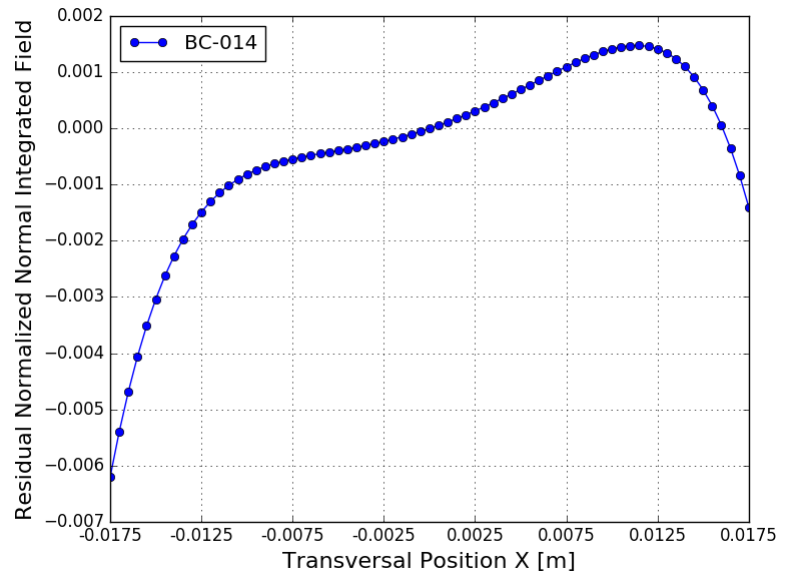
## BOOSTER MAGNET REPORT

### Results

Date	17/03/2015
Hour	15:42:53
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.978 \pm 0.001)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3961 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(1.1 \pm 0.6) \times E-1$

### Electric Parameters

Indutance [mH]	3.150
Voltage [V]	0.703
Resistance [m $\Omega$ ]	78.134
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)	$(1.00000 \pm 0.00005)$	$(1.1 \pm 0.2) \times E-4$
2 (quadrupole)	$(1.90 \pm 0.06) \times E-3$	$(9.7 \pm 0.5) \times E-4$
3 (sextupole)	$(2.04 \pm 0.03) \times E-3$	$(4.3 \pm 0.5) \times E-4$
4	$(-2 \pm 6) \times E-5$	$(-5 \pm 7) \times E-5$
5	$(-2.13 \pm 0.04) \times E-3$	$(-2.8 \pm 0.4) \times E-4$
6	$(6.1 \pm 0.5) \times E-4$	$(2.8 \pm 0.5) \times E-4$
7	$(-3.99 \pm 0.06) \times E-3$	$(3.1 \pm 0.3) \times E-4$
8	$(-5 \pm 3) \times E-5$	$(3 \pm 3) \times E-5$
9	$(-1.3 \pm 0.4) \times E-4$	$(-3 \pm 1) \times E-5$
10	$(-1.1 \pm 0.3) \times E-4$	$(-1.2 \pm 0.3) \times E-4$
11	$(5.2 \pm 0.3) \times E-4$	$(-7 \pm 3) \times E-5$
12	$(7 \pm 3) \times E-5$	$(2 \pm 3) \times E-5$
13	$(-5 \pm 3) \times E-5$	$(2 \pm 4) \times E-5$
14	$(2 \pm 4) \times E-5$	$(-8.1 \pm 44.9) \times E-6$
15	$(-6 \pm 5) \times E-5$	$(2 \pm 7) \times E-5$

