



BC-009

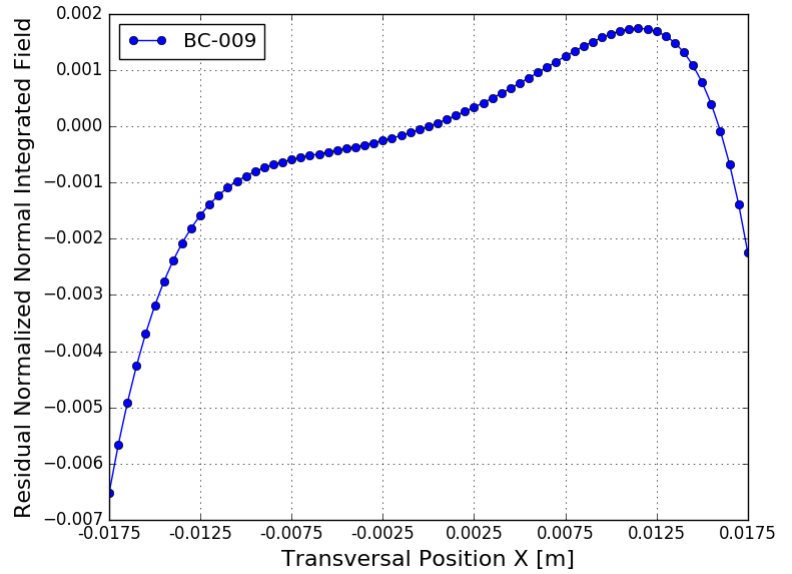
## BOOSTER MAGNET REPORT

### Results

Date	17/03/2015
Hour	10:45:53
Temperature [°C]	24.0
Number of Measurements	20
Main Coil Current [A]	$(9.981 \pm 0.007)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3807 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.2 \pm 0.1)$

### Electric Parameters

Indutance [mH]	3.159
Voltage [V]	0.689
Resistance [m $\Omega$ ]	76.506
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)	$(1.00000 \pm 0.00007)$	$(-1.19 \pm 0.04) \times E-3$
2 (quadrupole)	$(2.07 \pm 0.10) \times E-3$	$(-2 \pm 1) \times E-4$
3 (sextupole)	$(2.3 \pm 0.1) \times E-3$	$(1.0 \pm 14.4) \times E-5$
4	$(3 \pm 2) \times E-4$	$(-1 \pm 2) \times E-4$
5	$(-2.1 \pm 0.2) \times E-3$	$(-4 \pm 1) \times E-4$
6	$(4 \pm 2) \times E-4$	$(4 \pm 2) \times E-4$
7	$(-4.1 \pm 0.3) \times E-3$	$(7 \pm 2) \times E-4$
8	$(-3 \pm 1) \times E-4$	$(-4.4 \pm 18.0) \times E-5$
9	$(-5 \pm 2) \times E-4$	$(3 \pm 2) \times E-4$
10	$(-4 \pm 3) \times E-4$	$(-8.1 \pm 19.0) \times E-5$
11	$(1 \pm 2) \times E-4$	$(1 \pm 1) \times E-4$
12	$(-3.4 \pm 21.4) \times E-5$	$(-2.6 \pm 26.0) \times E-5$
13	$(-2 \pm 2) \times E-4$	$(-8.4 \pm 12.5) \times E-5$
14	$(1.3 \pm 11.3) \times E-5$	$(-7.5 \pm 23.3) \times E-5$
15	$(9.9 \pm 19.6) \times E-5$	$(2.4 \pm 19.6) \times E-5$

