



# BC-019

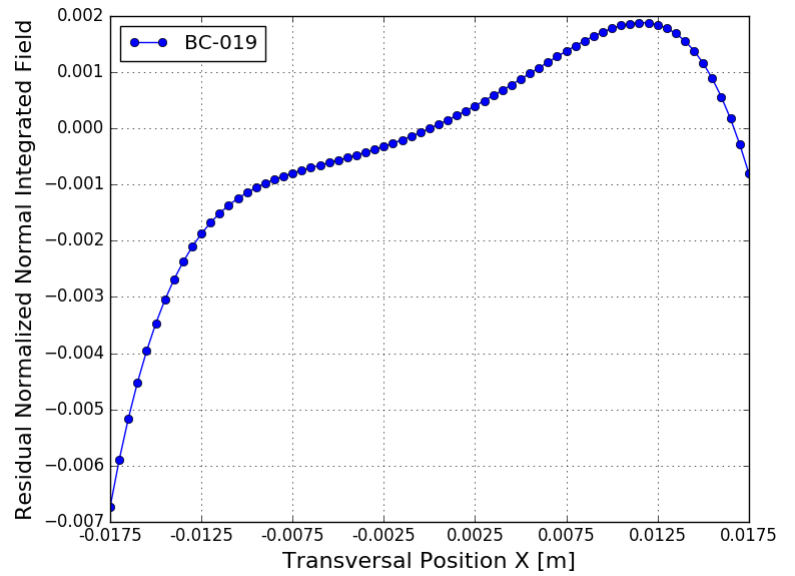
## BOOSTER MAGNET REPORT

### Results

Date	19/03/2015
Hour	12:53:42
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.980 \pm 0.007)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3850 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.8 \pm 0.1)$

### Electric Parameters

Indutance [mH]	3.180
Voltage [V]	0.676
Resistance [m $\Omega$ ]	75.113
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)	$(1.00000 \pm 0.00004)$	$(-1.79 \pm 0.04) \times E-3$
2 (quadrupole)	$(2.52 \pm 0.09) \times E-3$	$(5.5 \pm 0.9) \times E-4$
3 (sextupole)	$(2.1 \pm 0.2) \times E-3$	$(3 \pm 1) \times E-4$
4	$(-1.8 \pm 12.4) \times E-5$	$(6.6 \pm 11.9) \times E-5$
5	$(-2.2 \pm 0.2) \times E-3$	$(-4 \pm 2) \times E-4$
6	$(4 \pm 3) \times E-4$	$(3 \pm 2) \times E-4$
7	$(-4.1 \pm 0.2) \times E-3$	$(5 \pm 2) \times E-4$
8	$(-1 \pm 2) \times E-4$	$(8.0 \pm 14.0) \times E-5$
9	$(-1 \pm 1) \times E-4$	$(3.21 \pm 182.72) \times E-6$
10	$(-1 \pm 1) \times E-4$	$(1 \pm 2) \times E-4$
11	$(6 \pm 2) \times E-4$	$(9.7 \pm 13.7) \times E-5$
12	$(2 \pm 2) \times E-4$	$(2 \pm 1) \times E-4$
13	$(-1.2 \pm 13.9) \times E-5$	$(8.3 \pm 20.1) \times E-5$
14	$(1 \pm 1) \times E-4$	$(6.8 \pm 14.0) \times E-5$
15	$(-8.4 \pm 23.7) \times E-5$	$(-6.74 \pm 112.47) \times E-6$

