



# BC-018

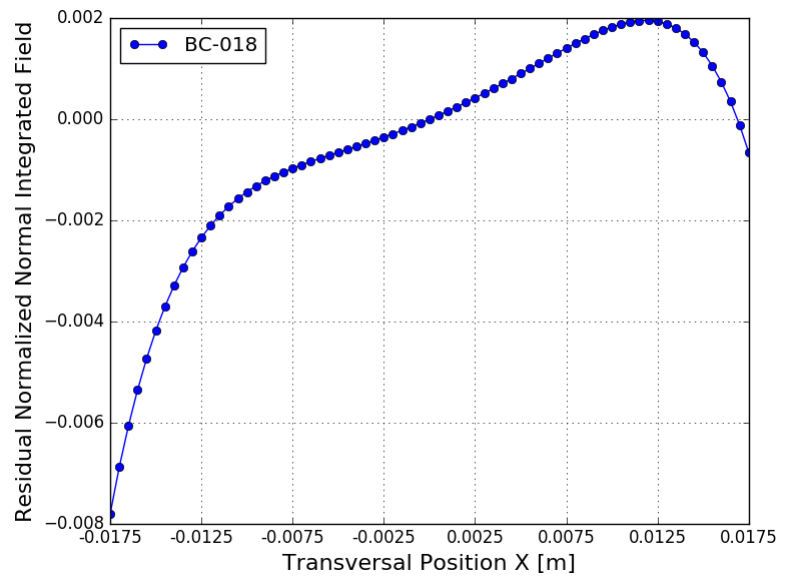
## BOOSTER MAGNET REPORT

### Results

Date	19/03/2015
Hour	11:04:33
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.978 \pm 0.006)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3944 \pm 0.0003) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.35 \pm 0.05)$

### Electric Parameters

Indutance [mH]	3.173
Voltage [V]	0.720
Resistance [ $\text{m}\Omega$ ]	80.050
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)	$(1.00000 \pm 0.00008)$	$(-1.35 \pm 0.02) \times E-3$
2 (quadrupole)	$(2.71 \pm 0.06) \times E-3$	$(3.4 \pm 0.6) \times E-4$
3 (sextupole)	$(1.71 \pm 0.08) \times E-3$	$(-3 \pm 5) \times E-5$
4	$(2.3 \pm 0.7) \times E-4$	$(-1.6 \pm 86.2) \times E-6$
5	$(-2.1 \pm 0.1) \times E-3$	$(-5 \pm 1) \times E-4$
6	$(7.3 \pm 0.8) \times E-4$	$(1 \pm 1) \times E-4$
7	$(-4.06 \pm 0.07) \times E-3$	$(1.7 \pm 1.0) \times E-4$
8	$(-1 \pm 1) \times E-4$	$(-8.8 \pm 10.1) \times E-5$
9	$(-1 \pm 1) \times E-4$	$(-3 \pm 1) \times E-4$
10	$(-1.9 \pm 0.7) \times E-4$	$(7.0 \pm 10.7) \times E-5$
11	$(4.2 \pm 0.9) \times E-4$	$(-2 \pm 1) \times E-4$
12	$(1.4 \pm 0.9) \times E-4$	$(8 \pm 9) \times E-5$
13	$(6 \pm 8) \times E-5$	$(-7 \pm 10) \times E-5$
14	$(6 \pm 4) \times E-5$	$(2 \pm 9) \times E-5$
15	$(-1.6 \pm 0.7) \times E-4$	$(3.90 \pm 105.85) \times E-6$

