



# BC-017

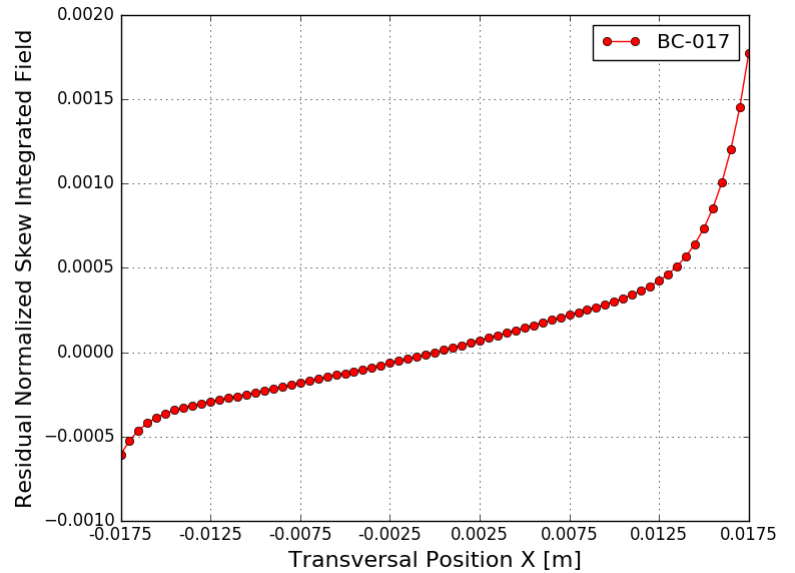
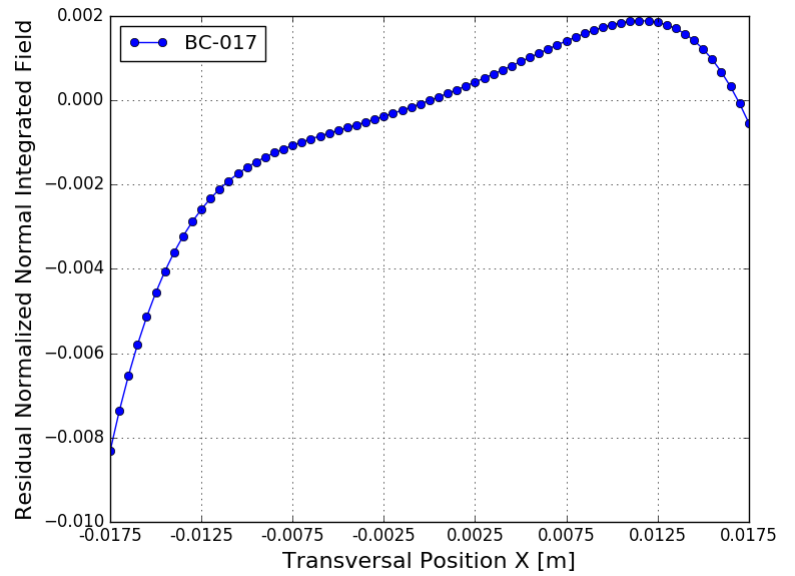
## BOOSTER MAGNET REPORT

### Results

Date	19/03/2015
Hour	10:25:36
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.978 \pm 0.006)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.4013 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-7.1 \pm 0.9) \times E-1$

### Electric Parameters

Indutance [mH]	3.170
Voltage [V]	0.729
Resistance [m $\Omega$ ]	80.992
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)	$(1.00000 \pm 0.00004)$	$(-7.1 \pm 0.3) \times E-4$
2 (quadrupole)	$(2.84 \pm 0.07) \times E-3$	$(4.8 \pm 0.8) \times E-4$
3 (sextupole)	$(1.51 \pm 0.08) \times E-3$	$(1.5 \pm 0.6) \times E-4$
4	$(1.2 \pm 0.9) \times E-4$	$(-3.8 \pm 11.2) \times E-5$
5	$(-2.3 \pm 0.1) \times E-3$	$(-3.7 \pm 0.9) \times E-4$
6	$(8 \pm 2) \times E-4$	$(4.4 \pm 11.8) \times E-5$
7	$(-4.1 \pm 0.2) \times E-3$	$(5.7 \pm 0.7) \times E-4$
8	$(2.8 \pm 13.9) \times E-5$	$(5 \pm 6) \times E-5$
9	$(-1 \pm 2) \times E-4$	$(6.6 \pm 11.3) \times E-5$
10	$(-1 \pm 1) \times E-4$	$(2.3 \pm 0.9) \times E-4$
11	$(7 \pm 1) \times E-4$	$(9.2 \pm 11.8) \times E-5$
12	$(2 \pm 1) \times E-4$	$(2.5 \pm 0.7) \times E-4$
13	$(5.6 \pm 13.4) \times E-5$	$(2.7 \pm 13.2) \times E-5$
14	$(2 \pm 7) \times E-5$	$(2 \pm 1) \times E-4$
15	$(-1 \pm 1) \times E-4$	$(4.6 \pm 17.6) \times E-5$