



BC-003

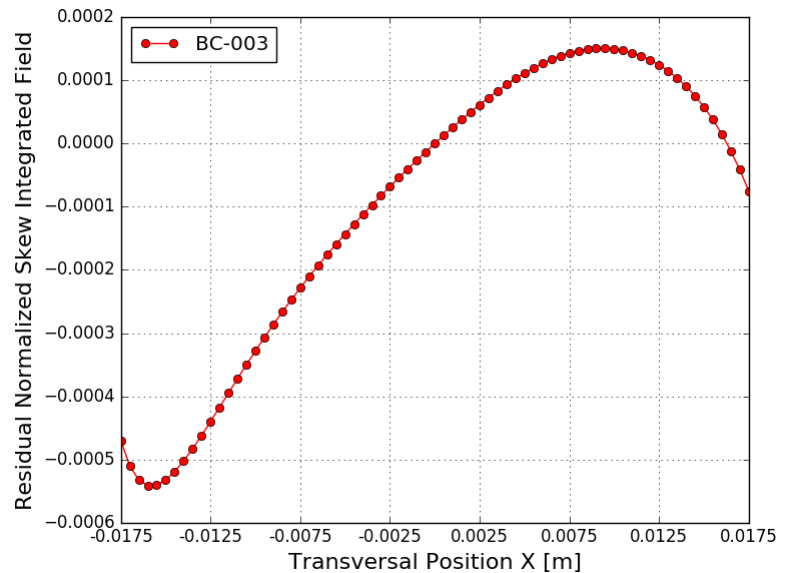
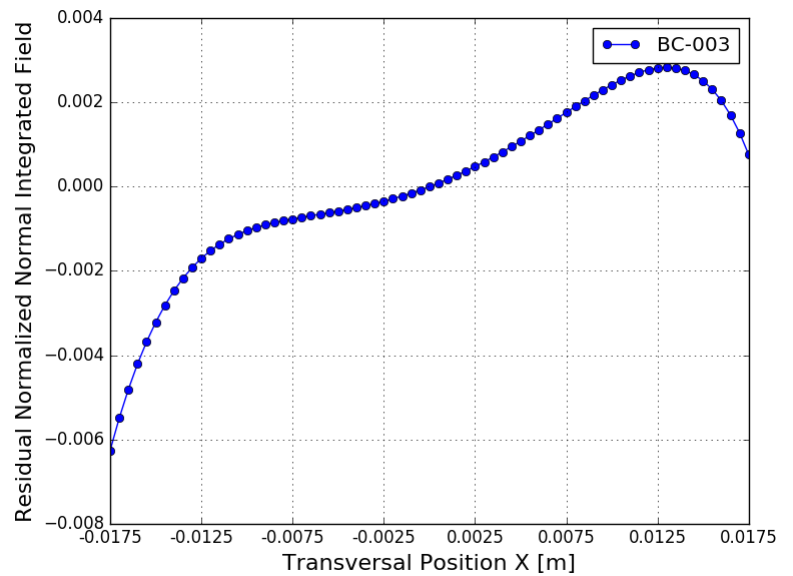
## BOOSTER MAGNET REPORT

### Results

Date	16/03/2015
Hour	14:17:40
Temperature [°C]	24.0
Number of Measurements	20
Main Coil Current [A]	$(9.979 \pm 0.002)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3260 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.61 \pm 0.05)$

### Electric Parameters

Indutance [mH]	3.180
Voltage [V]	--
Resistance [ $\text{m}\Omega$ ]	68.920
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)	$(1.00000 \pm 0.00004)$	$(-1.61 \pm 0.02) \times E-3$
2 (quadrupole)	$(2.88 \pm 0.03) \times E-3$	$(4.6 \pm 0.6) \times E-4$
3 (sextupole)	$(3.24 \pm 0.06) \times E-3$	$(-1.6 \pm 0.6) \times E-4$
4	$(2.7 \pm 0.5) \times E-4$	$(-1.4 \pm 0.5) \times E-4$
5	$(-2.13 \pm 0.05) \times E-3$	$(-4.6 \pm 0.6) \times E-4$
6	$(6.2 \pm 0.7) \times E-4$	$(1.1 \pm 0.6) \times E-4$
7	$(-4.14 \pm 0.06) \times E-3$	$(3.5 \pm 0.7) \times E-4$
8	$(-4 \pm 6) \times E-5$	$(-8 \pm 6) \times E-5$
9	$(-1.5 \pm 0.8) \times E-4$	$(-4 \pm 7) \times E-5$
10	$(-1.8 \pm 0.7) \times E-4$	$(-9 \pm 7) \times E-5$
11	$(5.2 \pm 0.5) \times E-4$	$(-9.5 \pm 81.5) \times E-6$
12	$(4 \pm 7) \times E-5$	$(-2 \pm 8) \times E-5$
13	$(-2 \pm 6) \times E-5$	$(-4 \pm 9) \times E-5$
14	$(-9 \pm 8) \times E-5$	$(-4 \pm 9) \times E-5$
15	$(-7 \pm 5) \times E-5$	$(9 \pm 5) \times E-5$