

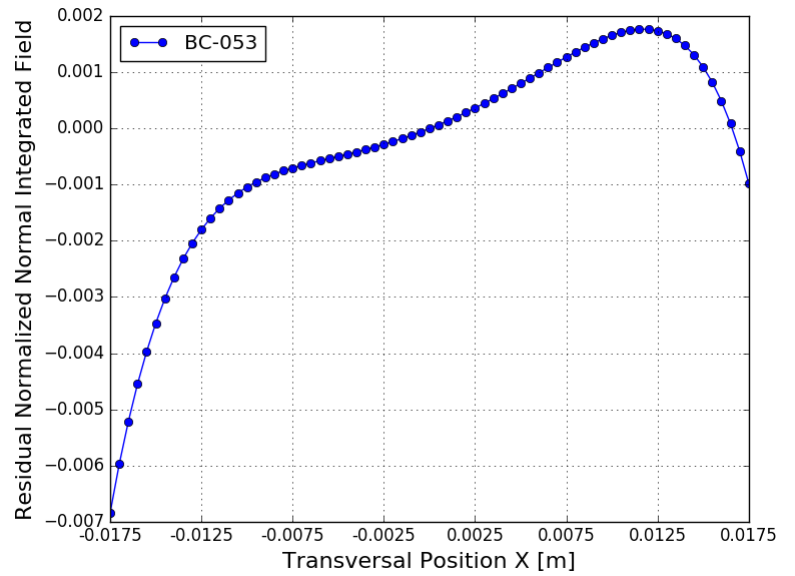


BC-053

## BOOSTER MAGNET REPORT

### Results

Date	07/05/2015
Hour	10:15:51
Temperature [°C]	24.0
Number of Measurements	20
Main Coil Current [A]	$(9.9762 \pm 0.0009)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3835 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(9 \pm 5) \times E-2$
Electric Parameters	
Indutance [mH]	3.100
Voltage [V]	0.735
Resistance [m $\Omega$ ]	81.615
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)	$(1 \pm 0)$	$(9 \pm 0) \times E-5$
2 (quadrupole)	$(2 \pm 0) \times E-3$	$(7 \pm 0) \times E-4$
3 (sextupole)	$(2 \pm 0) \times E-3$	$(4 \pm 0) \times E-4$
4	$(1 \pm 0) \times E-4$	$(2 \pm 0) \times E-5$
5	$(-2 \pm 0) \times E-3$	$(-3 \pm 0) \times E-5$
6	$(7 \pm 0) \times E-4$	$(7 \pm 0) \times E-5$
7	$(-4 \pm 0) \times E-3$	$(-6 \pm 0) \times E-5$
8	$(-5 \pm 0) \times E-5$	$(10 \pm 0) \times E-5$
9	$(2 \pm 0) \times E-5$	$(-10 \pm 0) \times E-6$
10	$(-1 \pm 0) \times E-4$	$(-4 \pm 0) \times E-7$
11	$(5 \pm 0) \times E-4$	$(-6 \pm 0) \times E-5$
12	$(2 \pm 0) \times E-5$	$(6 \pm 0) \times E-5$
13	$(-7 \pm 0) \times E-5$	$(-7 \pm 0) \times E-5$
14	$(5 \pm 0) \times E-5$	$(2 \pm 0) \times E-7$
15	$(-1 \pm 0) \times E-4$	$(-5 \pm 0) \times E-5$

