



# BC-043

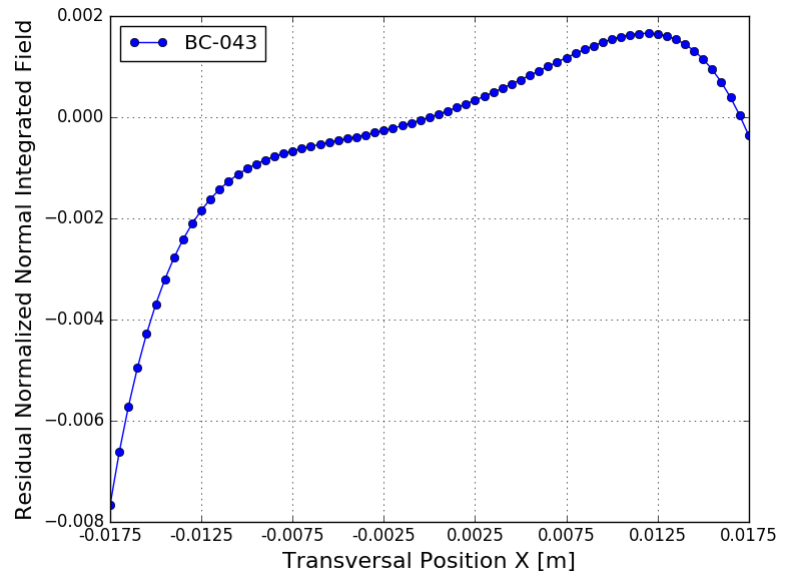
## BOOSTER MAGNET REPORT

### Results

Date	05/05/2015
Hour	15:53:35
Temperature [°C]	24.0
Number of Measurements	20
Main Coil Current [A]	$(9.979 \pm 0.005)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3946 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-10.0 \pm 0.7) \times E-1$

### Electric Parameters

Indutance [mH]	3.105
Voltage [V]	0.681
Resistance [m $\Omega$ ]	75.621
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> ]
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1 (dipole)	$(1 \pm 0)$	$(-10 \pm 0) \times E-4$
2 (quadrupole)	$(2 \pm 0) \times E-3$	$(3 \pm 0) \times E-5$
3 (sextupole)	$(2 \pm 0) \times E-3$	$(3 \pm 0) \times E-4$
4	$(1 \pm 0) \times E-4$	$(-10 \pm 0) \times E-6$
5	$(-2 \pm 0) \times E-3$	$(-2 \pm 0) \times E-4$
6	$(10 \pm 0) \times E-4$	$(-1 \pm 0) \times E-4$
7	$(-4 \pm 0) \times E-3$	$(4 \pm 0) \times E-5$
8	$(3 \pm 0) \times E-4$	$(-1 \pm 0) \times E-4$
9	$(6 \pm 0) \times E-5$	$(7 \pm 0) \times E-5$
10	$(-1 \pm 0) \times E-4$	$(-6 \pm 0) \times E-5$
11	$(5 \pm 0) \times E-4$	$(5 \pm 0) \times E-5$
12	$(1 \pm 0) \times E-4$	$(1 \pm 0) \times E-4$
13	$(-2 \pm 0) \times E-4$	$(5 \pm 0) \times E-5$
14	$(2 \pm 0) \times E-4$	$(1 \pm 0) \times E-4$
15	$(-6 \pm 0) \times E-5$	$(5 \pm 0) \times E-6$

