



BC-083

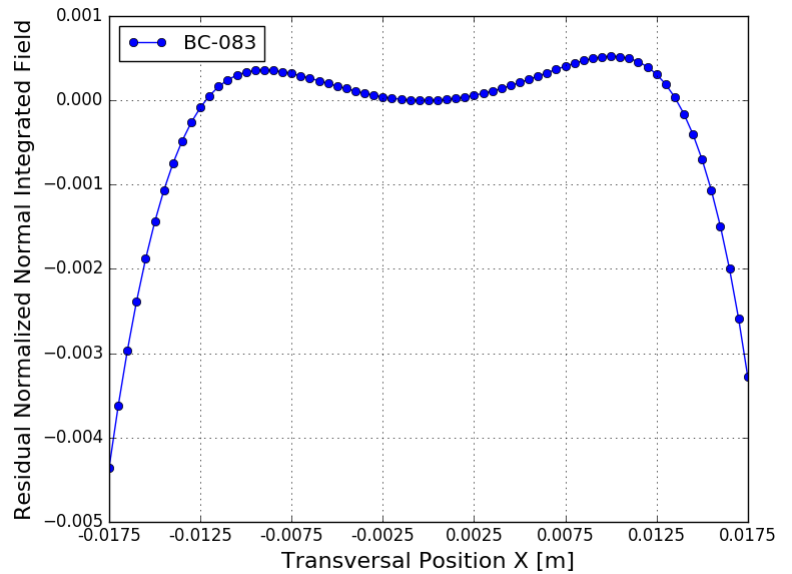
## BOOSTER MAGNET REPORT

### Results

Date	03/05/2016
Hour	12:13:09
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	$(9.977 \pm 0.004)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3898 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-7 \pm 1) \times E-1$

### Electric Parameters

Indutance [mH]	3.188
Voltage [V]	0.766
Resistance [m $\Omega$ ]	76.590
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)	$(1.00000 \pm 0.00003)$	$(-6.6 \pm 0.4) \times E-4$
2 (quadrupole)	$(6 \pm 5) \times E-5$	$(-3.2 \pm 0.6) \times E-4$
3 (sextupole)	$(2.56 \pm 0.07) \times E-3$	$(8 \pm 7) \times E-5$
4	$(9 \pm 6) \times E-5$	$(6.1 \pm 11.5) \times E-5$
5	$(-2.4 \pm 0.1) \times E-3$	$(6.5 \pm 11.8) \times E-5$
6	$(7 \pm 1) \times E-4$	$(-2 \pm 2) \times E-4$
7	$(-4.4 \pm 0.2) \times E-3$	$(-2.3 \pm 13.4) \times E-5$
8	$(7.5 \pm 12.9) \times E-5$	$(-1 \pm 1) \times E-4$
9	$(-2 \pm 1) \times E-4$	$(-1 \pm 1) \times E-4$
10	$(-2.5 \pm 0.8) \times E-4$	$(-6.8 \pm 11.3) \times E-5$
11	$(5 \pm 1) \times E-4$	$(1.2 \pm 0.8) \times E-4$
12	$(-1 \pm 1) \times E-4$	$(1.2 \pm 0.9) \times E-4$
13	$(4.4 \pm 10.3) \times E-5$	$(2 \pm 1) \times E-4$
14	$(4.11 \pm 111.35) \times E-6$	$(1.4 \pm 0.5) \times E-4$
15	$(1.1 \pm 82.1) \times E-6$	$(1.7 \pm 0.9) \times E-4$

