



BC-082

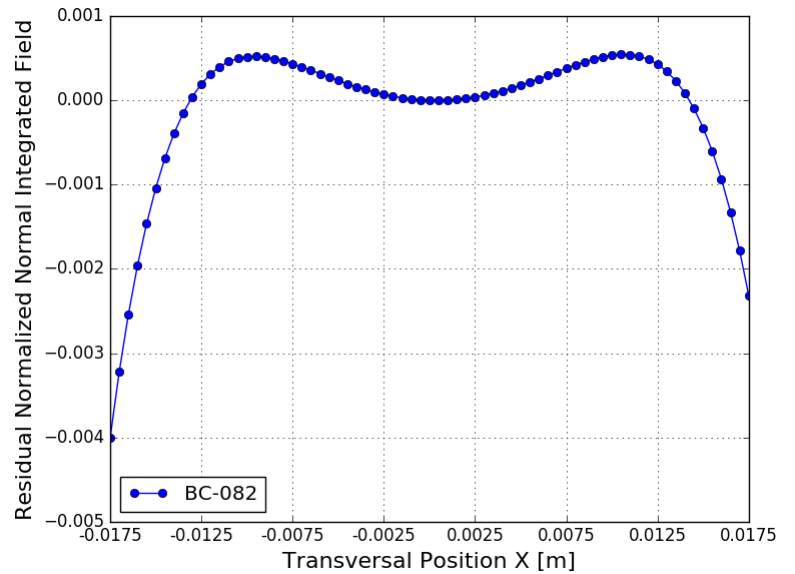
## BOOSTER MAGNET REPORT

### Results

Date	26/04/2016
Hour	14:50:41
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	$(9.977 \pm 0.002)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.4063 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-2.8 \pm 0.5) \times E-1$

### Electric Parameters

Indutance [mH]	3.215
Voltage [V]	0.765
Resistance [m $\Omega$ ]	76.480
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)	$(1.00000 \pm 0.00003)$	$(-2.8 \pm 0.2) \times E-4$
2 (quadrupole)	$(-1.2 \pm 0.4) \times E-4$	$(-6.2 \pm 0.4) \times E-4$
3 (sextupole)	$(2.76 \pm 0.04) \times E-3$	$(2 \pm 4) \times E-5$
4	$(1.4 \pm 0.5) \times E-4$	$(1 \pm 4) \times E-5$
5	$(-2.20 \pm 0.04) \times E-3$	$(-3 \pm 5) \times E-5$
6	$(8.1 \pm 0.4) \times E-4$	$(-7 \pm 4) \times E-5$
7	$(-4.04 \pm 0.05) \times E-3$	$(-2 \pm 4) \times E-5$
8	$(3 \pm 5) \times E-5$	$(-3 \pm 4) \times E-5$
9	$(-2 \pm 3) \times E-5$	$(3.9 \pm 49.7) \times E-6$
10	$(-1.6 \pm 0.5) \times E-4$	$(-4 \pm 4) \times E-5$
11	$(5.0 \pm 0.4) \times E-4$	$(-4 \pm 6) \times E-5$
12	$(10 \pm 3) \times E-5$	$(3 \pm 3) \times E-5$
13	$(-6 \pm 4) \times E-5$	$(2.7 \pm 53.4) \times E-6$
14	$(4 \pm 7) \times E-5$	$(4 \pm 6) \times E-5$
15	$(-10 \pm 5) \times E-5$	$(3.1 \pm 49.7) \times E-6$

