



BC-063

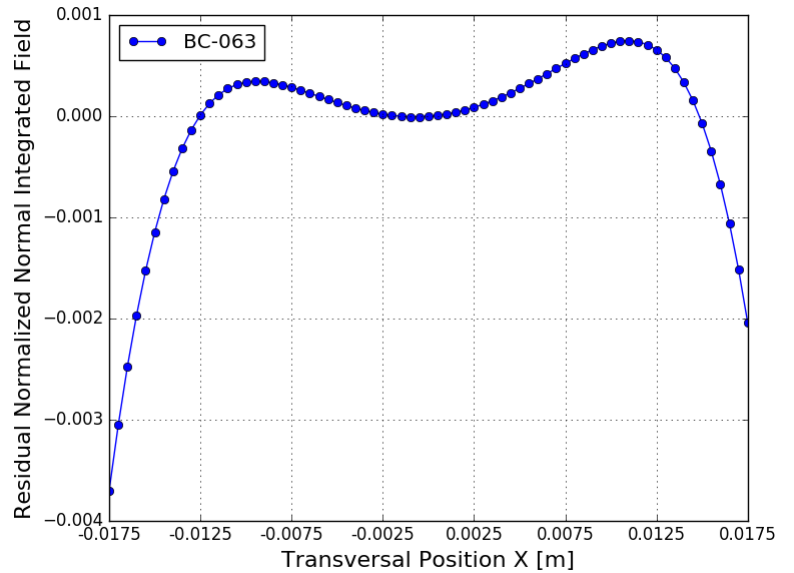
## BOOSTER MAGNET REPORT

### Results

Date	03/05/2016
Hour	14:27:01
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	$(9.979 \pm 0.003)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.37786 \pm 0.00008) \times 10^{-3}$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-8 \pm 1) \times 10^{-1}$

### Electric Parameters

Indutance [mH]	3.226
Voltage [V]	0.766
Resistance [m $\Omega$ ]	76.610
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)	$(1.00000 \pm 0.00002)$	$(-7.7 \pm 0.4) \times 10^{-4}$
2 (quadrupole)	$(2.4 \pm 0.5) \times 10^{-4}$	$(-5.4 \pm 0.5) \times 10^{-4}$
3 (sextupole)	$(2.70 \pm 0.06) \times 10^{-3}$	$(-3 \pm 6) \times 10^{-5}$
4	$(9 \pm 8) \times 10^{-5}$	$(-1 \pm 8) \times 10^{-5}$
5	$(-2.00 \pm 0.08) \times 10^{-3}$	$(2 \pm 8) \times 10^{-5}$
6	$(6.9 \pm 0.8) \times 10^{-4}$	$(-9 \pm 7) \times 10^{-5}$
7	$(-4.05 \pm 0.08) \times 10^{-3}$	$(-3 \pm 6) \times 10^{-5}$
8	$(4 \pm 7) \times 10^{-5}$	$(-2 \pm 7) \times 10^{-5}$
9	$(-4 \pm 8) \times 10^{-5}$	$(6 \pm 8) \times 10^{-5}$
10	$(-2.1 \pm 0.8) \times 10^{-4}$	$(1 \pm 5) \times 10^{-5}$
11	$(4 \pm 1) \times 10^{-4}$	$(-4 \pm 5) \times 10^{-5}$
12	$(-1 \pm 10) \times 10^{-5}$	$(-7 \pm 8) \times 10^{-5}$
13	$(7.6 \pm 78.1) \times 10^{-6}$	$(-1.2 \pm 0.8) \times 10^{-4}$
14	$(-8.3 \pm 82.3) \times 10^{-6}$	$(-7 \pm 6) \times 10^{-5}$
15	$(8 \pm 8) \times 10^{-5}$	$(8.6 \pm 52.6) \times 10^{-6}$

