



BC-071

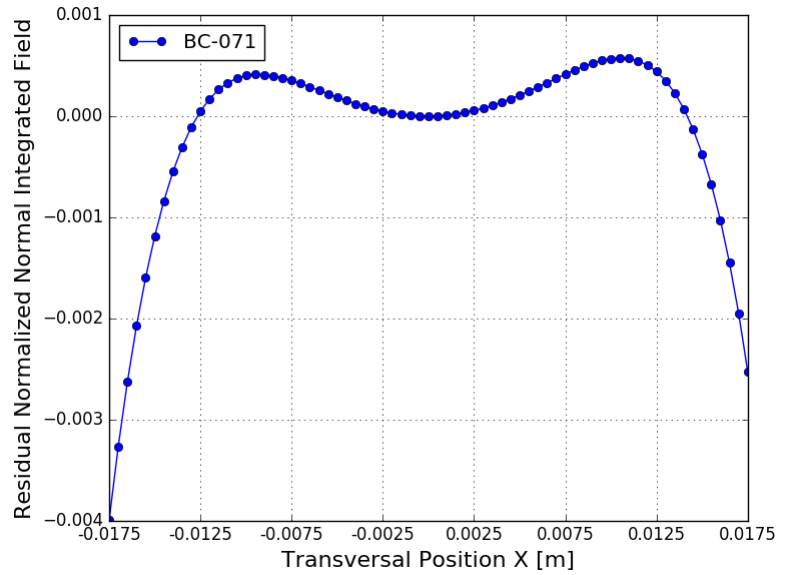
## BOOSTER MAGNET REPORT

### Results

Date	28/04/2016
Hour	11:45:15
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	$(9.9785 \pm 0.0005)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.37980 \pm 0.00005) \times 10^{-3}$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-2.5 \pm 0.2) \times 10^{-1}$

### Electric Parameters

Indutance [mH]	3.257
Voltage [V]	0.775
Resistance [m $\Omega$ ]	77.520
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)	$(1.00000 \pm 0.00002)$	$(-2.53 \pm 0.07) \times 10^{-4}$
2 (quadrupole)	$(2 \pm 1) \times 10^{-5}$	$(-7.0 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(2.64 \pm 0.02) \times 10^{-3}$	$(-6 \pm 1) \times 10^{-5}$
4	$(1.62 \pm 0.10) \times 10^{-4}$	$(-1 \pm 1) \times 10^{-5}$
5	$(-2.203 \pm 0.006) \times 10^{-3}$	$(4 \pm 1) \times 10^{-5}$
6	$(7.15 \pm 0.09) \times 10^{-4}$	$(-2.9 \pm 1.0) \times 10^{-5}$
7	$(-4.08 \pm 0.01) \times 10^{-3}$	$(-4 \pm 1) \times 10^{-5}$
8	$(-1 \pm 1) \times 10^{-5}$	$(7.0 \pm 10.9) \times 10^{-6}$
9	$(9 \pm 9) \times 10^{-6}$	$(-2 \pm 1) \times 10^{-5}$
10	$(-1.6 \pm 0.1) \times 10^{-4}$	$(-1.1 \pm 0.8) \times 10^{-5}$
11	$(4.84 \pm 0.08) \times 10^{-4}$	$(-1.6 \pm 11.8) \times 10^{-6}$
12	$(1.2 \pm 0.9) \times 10^{-5}$	$(-8.3 \pm 16.8) \times 10^{-6}$
13	$(-6 \pm 1) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
14	$(5.75 \pm 354.94) \times 10^{-7}$	$(4.7 \pm 31.4) \times 10^{-6}$
15	$(-5 \pm 3) \times 10^{-5}$	$(-1 \pm 3) \times 10^{-5}$

