



# BC-074

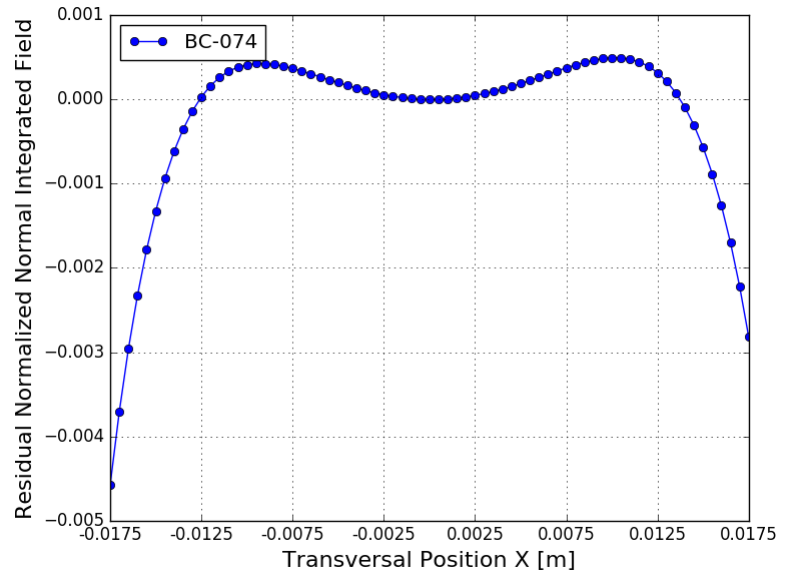
## BOOSTER MAGNET REPORT

### Results

Date	26/04/2016
Hour	11:38:51
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	$(9.976 \pm 0.003)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.38280 \pm 0.00007) \times 10^{-3}$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-4.2 \pm 0.6) \times 10^{-1}$

### Electric Parameters

Indutance [mH]	3.222
Voltage [V]	0.767
Resistance [m $\Omega$ ]	76.650
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)	$(1.00000 \pm 0.00002)$	$(-4.2 \pm 0.2) \times 10^{-4}$
2 (quadrupole)	$(-3 \pm 6) \times 10^{-5}$	$(-3.1 \pm 0.5) \times 10^{-4}$
3 (sextupole)	$(2.59 \pm 0.05) \times 10^{-3}$	$(6 \pm 6) \times 10^{-5}$
4	$(8 \pm 6) \times 10^{-5}$	$(-10 \pm 5) \times 10^{-5}$
5	$(-2.32 \pm 0.05) \times 10^{-3}$	$(7 \pm 8) \times 10^{-5}$
6	$(6.8 \pm 0.6) \times 10^{-4}$	$(-1.2 \pm 0.6) \times 10^{-4}$
7	$(-4.16 \pm 0.07) \times 10^{-3}$	$(-6.8 \pm 87.1) \times 10^{-6}$
8	$(1.2 \pm 0.7) \times 10^{-4}$	$(-4.0 \pm 92.7) \times 10^{-6}$
9	$(-5 \pm 8) \times 10^{-5}$	$(-2 \pm 9) \times 10^{-5}$
10	$(-5 \pm 4) \times 10^{-5}$	$(4 \pm 9) \times 10^{-5}$
11	$(4.6 \pm 0.7) \times 10^{-4}$	$(1 \pm 8) \times 10^{-5}$
12	$(-9.1 \pm 80.1) \times 10^{-6}$	$(-1 \pm 4) \times 10^{-5}$
13	$(-8 \pm 3) \times 10^{-5}$	$(4 \pm 5) \times 10^{-5}$
14	$(9 \pm 5) \times 10^{-5}$	$(2.4 \pm 0.4) \times 10^{-4}$
15	$(-1.3 \pm 0.5) \times 10^{-4}$	$(2 \pm 8) \times 10^{-5}$

