



BC-078

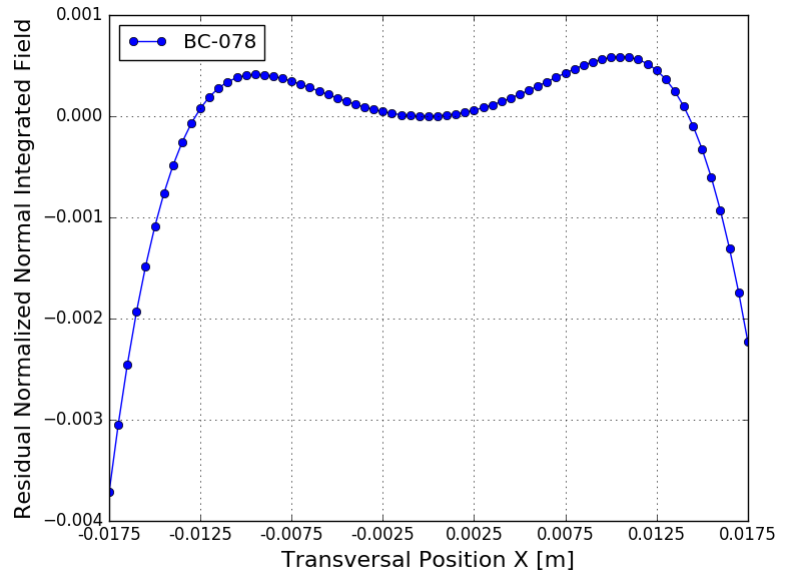
## BOOSTER MAGNET REPORT

### Results

Date	29/04/2016
Hour	12:40:26
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	$(9.980 \pm 0.005)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.38679 \pm 0.00008) \times 10^{-3}$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-4.6 \pm 0.4) \times 10^{-1}$

### Electric Parameters

Indutance [mH]	3.208
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)	$(1.00000 \pm 0.00002)$	$(-4.6 \pm 0.1) \times 10^{-4}$
2 (quadrupole)	$(5 \pm 3) \times 10^{-5}$	$(-4.7 \pm 0.4) \times 10^{-4}$
3 (sextupole)	$(2.64 \pm 0.03) \times 10^{-3}$	$(-4 \pm 4) \times 10^{-5}$
4	$(1.2 \pm 0.3) \times 10^{-4}$	$(-3 \pm 4) \times 10^{-5}$
5	$(-2.16 \pm 0.03) \times 10^{-3}$	$(7 \pm 6) \times 10^{-5}$
6	$(6.3 \pm 0.5) \times 10^{-4}$	$(-9 \pm 5) \times 10^{-5}$
7	$(-4.02 \pm 0.05) \times 10^{-3}$	$(-5 \pm 6) \times 10^{-5}$
8	$(-5 \pm 5) \times 10^{-5}$	$(7 \pm 5) \times 10^{-5}$
9	$(-3 \pm 7) \times 10^{-5}$	$(6 \pm 6) \times 10^{-5}$
10	$(-1.4 \pm 0.6) \times 10^{-4}$	$(7 \pm 5) \times 10^{-5}$
11	$(5.2 \pm 0.5) \times 10^{-4}$	$(2 \pm 4) \times 10^{-5}$
12	$(9 \pm 6) \times 10^{-5}$	$(-8 \pm 5) \times 10^{-5}$
13	$(5.7 \pm 52.0) \times 10^{-6}$	$(-4.517 \pm 5706.771) \times 10^{-8}$
14	$(4 \pm 5) \times 10^{-5}$	$(-6 \pm 6) \times 10^{-5}$
15	$(8 \pm 5) \times 10^{-5}$	$(8 \pm 7) \times 10^{-5}$

