



BC-070

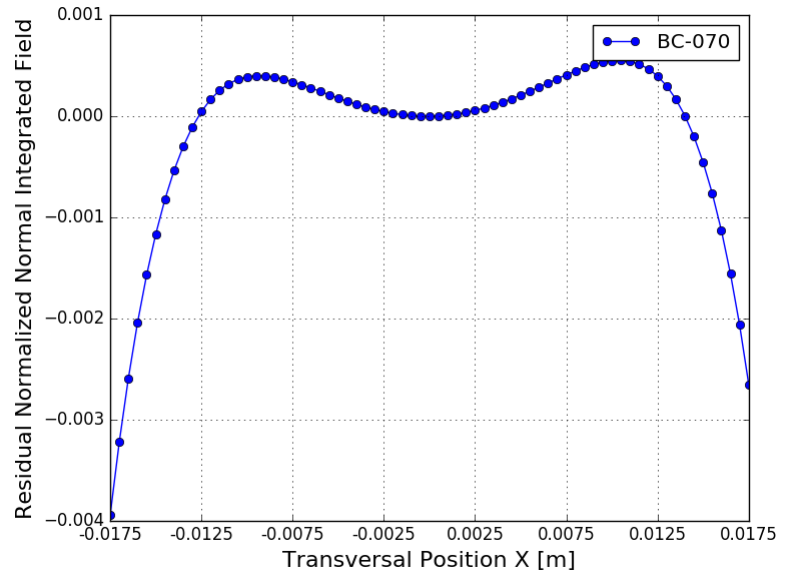
BOOSTER MAGNET REPORT

Results

Date	29/04/2016
Hour	10:09:41
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(9.980 ± 0.001)
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.38110 \pm 0.00008) \times 10^{-3}$
Magnet Center Offset X [μm]	--
Magnet Center Offset Y [μm]	--
Roll [mrad]	$(1.3 \pm 0.1) \times 10^{-1}$

Electric Parameters

Indutance [mH]	3.208
Voltage [V]	0.767
Resistance [m Ω]	76.740
Main Coil Number of Turns	38.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(1.00000 ± 0.00002)	$(1.29 \pm 0.05) \times 10^{-4}$
2 (quadrupole)	$(4 \pm 1) \times 10^{-5}$	$(-2.2 \pm 0.2) \times 10^{-4}$
3 (sextupole)	$(2.59 \pm 0.02) \times 10^{-3}$	$(7 \pm 2) \times 10^{-5}$
4	$(1.2 \pm 0.1) \times 10^{-4}$	$(-1.4 \pm 0.8) \times 10^{-5}$
5	$(-2.20 \pm 0.01) \times 10^{-3}$	$(3 \pm 1) \times 10^{-5}$
6	$(6.0 \pm 0.2) \times 10^{-4}$	$(-5 \pm 2) \times 10^{-5}$
7	$(-4.09 \pm 0.01) \times 10^{-3}$	$(-6 \pm 2) \times 10^{-5}$
8	$(-1.2 \pm 0.9) \times 10^{-5}$	$(5.6 \pm 13.5) \times 10^{-6}$
9	$(1 \pm 1) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
10	$(-1.4 \pm 0.1) \times 10^{-4}$	$(1.49 \pm 100.90) \times 10^{-7}$
11	$(5.22 \pm 0.07) \times 10^{-4}$	$(2 \pm 5) \times 10^{-6}$
12	$(3 \pm 1) \times 10^{-5}$	$(1.7 \pm 0.8) \times 10^{-5}$
13	$(-7 \pm 1) \times 10^{-5}$	$(3 \pm 8) \times 10^{-6}$
14	$(5.6 \pm 15.1) \times 10^{-6}$	$(-2 \pm 1) \times 10^{-5}$
15	$(-6 \pm 5) \times 10^{-5}$	$(-3 \pm 5) \times 10^{-5}$

