



BC-072

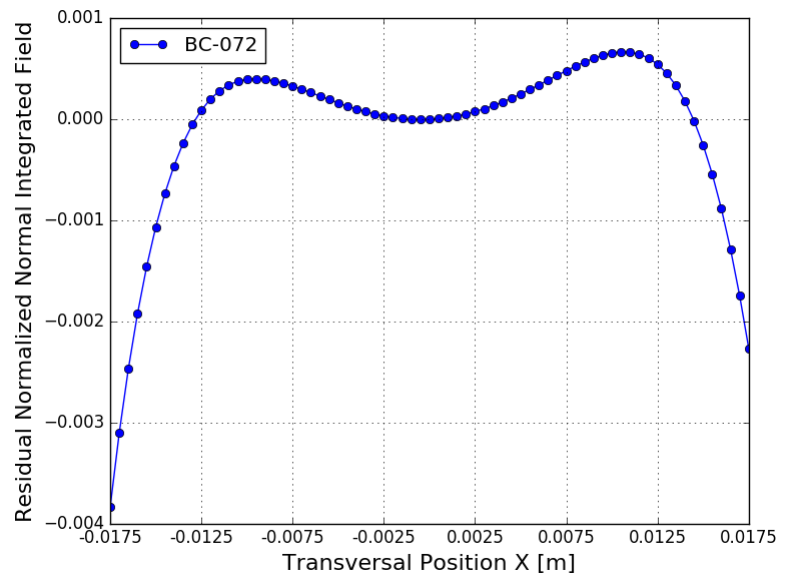
BOOSTER MAGNET REPORT

Results

Date	03/05/2016
Hour	09:49:31
Temperature [°C]	23.0
Number of Measurements	17
Main Coil Current [A]	(9.982 ± 0.004)
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3855 \pm 0.0001) \times E-3$
Magnet Center Offset X [μm]	--
Magnet Center Offset Y [μm]	--
Roll [mrad]	$(-7.2 \pm 0.8) \times E-1$

Electric Parameters

Inductance [mH]	3.196
Voltage [V]	0.769
Resistance [m Ω]	76.890
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 ± 0.00003)	$(-7.2 \pm 0.3) \times E-4$
2 (quadrupole)	$(1.5 \pm 0.3) \times E-4$	$(-6.4 \pm 0.8) \times E-4$
3 (sextupole)	$(2.72 \pm 0.06) \times E-3$	$(4 \pm 7) \times E-5$
4	$(7 \pm 8) \times E-5$	$(-1 \pm 1) \times E-4$
5	$(-2.1 \pm 0.1) \times E-3$	$(8.2 \pm 10.5) \times E-5$
6	$(5.6 \pm 0.8) \times E-4$	$(-2 \pm 1) \times E-4$
7	$(-4.1 \pm 0.1) \times E-3$	$(-5.8 \pm 15.1) \times E-5$
8	$(2.4 \pm 13.0) \times E-5$	$(5.80 \pm 129.84) \times E-6$
9	$(-3.0 \pm 93.8) \times E-6$	$(6 \pm 7) \times E-5$
10	$(-2.3 \pm 0.9) \times E-4$	$(-1.3 \pm 1.0) \times E-4$
11	$(4.8 \pm 0.9) \times E-4$	$(-6.1 \pm 11.8) \times E-5$
12	$(-4 \pm 9) \times E-5$	$(8.3 \pm 10.5) \times E-5$
13	$(-3.2 \pm 13.1) \times E-5$	$(-8 \pm 8) \times E-5$
14	$(3 \pm 1) \times E-4$	$(3 \pm 1) \times E-4$
15	$(-2.7 \pm 11.4) \times E-5$	$(3 \pm 8) \times E-5$

