



BC-013

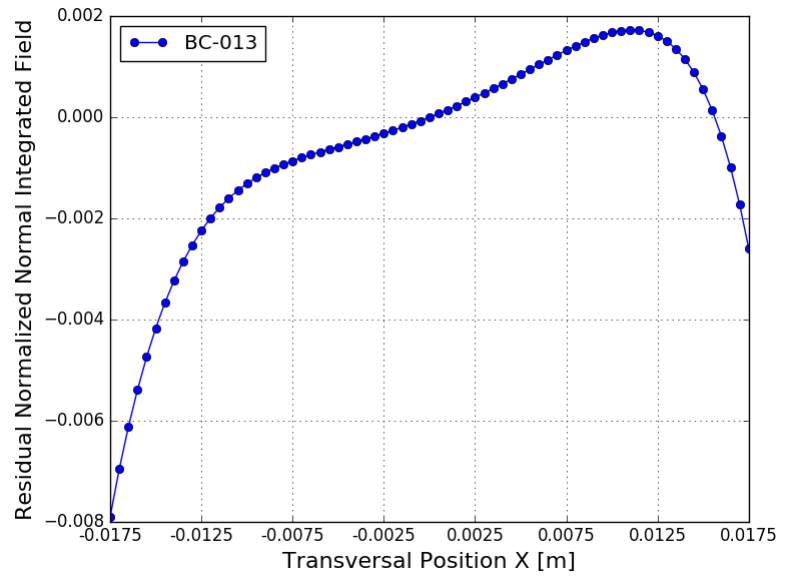
BOOSTER MAGNET REPORT

Results

Date	17/03/2015
Hour	15:01:46
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	(9.979 ± 0.007)
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3999 \pm 0.0003) \times E-3$
Magnet Center Offset X [μm]	--
Magnet Center Offset Y [μm]	--
Roll [mrad]	(-1.3 ± 0.1)

Electric Parameters

Indutance [mH]	3.162
Voltage [V]	0.686
Resistance [$\text{m}\Omega$]	76.246
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 ± 0.00008)	$(-1.25 \pm 0.05) \times E-3$
2 (quadrupole)	$(2.49 \pm 0.09) \times E-3$	$(8 \pm 1) \times E-4$
3 (sextupole)	$(1.9 \pm 0.1) \times E-3$	$(1.2 \pm 1.0) \times E-4$
4	$(2 \pm 1) \times E-4$	$(-6.7 \pm 13.5) \times E-5$
5	$(-2.5 \pm 0.2) \times E-3$	$(-3 \pm 1) \times E-4$
6	$(6 \pm 2) \times E-4$	$(2.7 \pm 1.0) \times E-4$
7	$(-4.6 \pm 0.2) \times E-3$	$(4 \pm 2) \times E-4$
8	$(-2 \pm 2) \times E-4$	$(2 \pm 1) \times E-4$
9	$(-3 \pm 2) \times E-4$	$(-1.2 \pm 27.0) \times E-5$
10	$(-5 \pm 2) \times E-4$	$(5.6 \pm 11.1) \times E-5$
11	$(4 \pm 2) \times E-4$	$(3 \pm 1) \times E-4$
12	$(-7.8 \pm 14.7) \times E-5$	$(-1 \pm 1) \times E-4$
13	$(-1.338 \pm 1060.824) \times E-7$	$(-2.8 \pm 13.7) \times E-5$
14	$(1 \pm 1) \times E-4$	$(-9.4 \pm 12.7) \times E-5$
15	$(-2 \pm 1) \times E-4$	$(-8.3 \pm 16.4) \times E-5$

