



BC-027

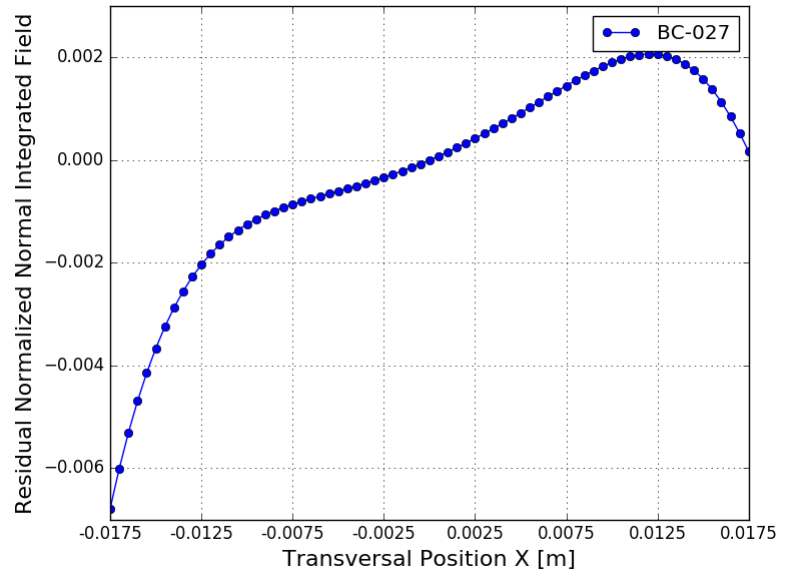
BOOSTER MAGNET REPORT

Results

Date	20/03/2015
Hour	13:56:48
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	(9.979 ± 0.005)
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3890 \pm 0.0002) \times E-3$
Magnet Center Offset X [μm]	--
Magnet Center Offset Y [μm]	--
Roll [mrad]	$(-8.8 \pm 0.8) \times E-1$

Electric Parameters

Indutance [mH]	3.151
Voltage [V]	0.682
Resistance [$\text{m}\Omega$]	75.787
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 ± 0.00006)	$(-8.8 \pm 0.3) \times E-4$
2 (quadrupole)	$(2.65 \pm 0.07) \times E-3$	$(1.02 \pm 0.07) \times E-3$
3 (sextupole)	$(2.13 \pm 0.06) \times E-3$	$(2 \pm 1) \times E-4$
4	$(1.3 \pm 0.7) \times E-4$	$(-2.1 \pm 0.5) \times E-4$
5	$(-2.2 \pm 0.1) \times E-3$	$(-3.4 \pm 1.0) \times E-4$
6	$(6 \pm 1) \times E-4$	$(2.0 \pm 0.5) \times E-4$
7	$(-4.0 \pm 0.1) \times E-3$	$(4.0 \pm 0.8) \times E-4$
8	$(-6.6 \pm 10.7) \times E-5$	$(2.6 \pm 11.0) \times E-5$
9	$(5 \pm 8) \times E-5$	$(2 \pm 9) \times E-5$
10	$(-2 \pm 2) \times E-4$	$(-2 \pm 1) \times E-4$
11	$(6 \pm 1) \times E-4$	$(-1.4 \pm 0.9) \times E-4$
12	$(2 \pm 1) \times E-4$	$(-2.6 \pm 12.1) \times E-5$
13	$(4 \pm 10) \times E-5$	$(-7.1 \pm 10.2) \times E-5$
14	$(1.5 \pm 1.0) \times E-4$	$(8.8 \pm 12.8) \times E-5$
15	$(3 \pm 10) \times E-5$	$(7.3 \pm 16.3) \times E-5$

