



BC-022

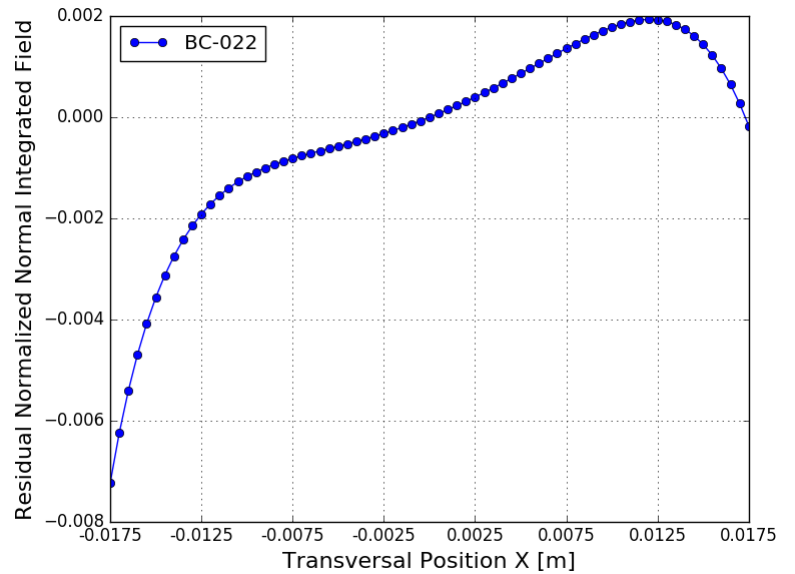
BOOSTER MAGNET REPORT

Results

Date	19/03/2015
Hour	15:43:14
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	(9.979 ± 0.007)
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3870 \pm 0.0002) \times E-3$
Magnet Center Offset X [μm]	--
Magnet Center Offset Y [μm]	--
Roll [mrad]	$(-3 \pm 1) \times E-1$

Electric Parameters

Indutance [mH]	3.152
Voltage [V]	0.694
Resistance [m Ω]	77.149
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 ± 0.00005)	$(-2.9 \pm 0.4) \times E-4$
2 (quadrupole)	$(2.51 \pm 0.08) \times E-3$	$(1.57 \pm 0.07) \times E-3$
3 (sextupole)	$(2.0 \pm 0.1) \times E-3$	$(4.6 \pm 0.7) \times E-4$
4	$(3.3 \pm 12.1) \times E-5$	$(-1 \pm 2) \times E-4$
5	$(-1.9 \pm 0.2) \times E-3$	$(-3 \pm 2) \times E-4$
6	$(6 \pm 1) \times E-4$	$(3 \pm 2) \times E-4$
7	$(-3.83 \pm 0.10) \times E-3$	$(3 \pm 1) \times E-4$
8	$(-1 \pm 1) \times E-4$	$(-5 \pm 8) \times E-5$
9	$(-4.3 \pm 10.7) \times E-5$	$(-2 \pm 1) \times E-4$
10	$(6 \pm 9) \times E-5$	$(-5.5 \pm 14.3) \times E-5$
11	$(6 \pm 1) \times E-4$	$(-1.4 \pm 14.6) \times E-5$
12	$(2 \pm 1) \times E-4$	$(1 \pm 2) \times E-4$
13	$(-3 \pm 2) \times E-4$	$(-8.9 \pm 15.5) \times E-5$
14	$(2 \pm 1) \times E-4$	$(-3.6 \pm 16.4) \times E-5$
15	$(-1.9 \pm 0.9) \times E-4$	$(-1.3 \pm 17.5) \times E-5$

