



BC-020

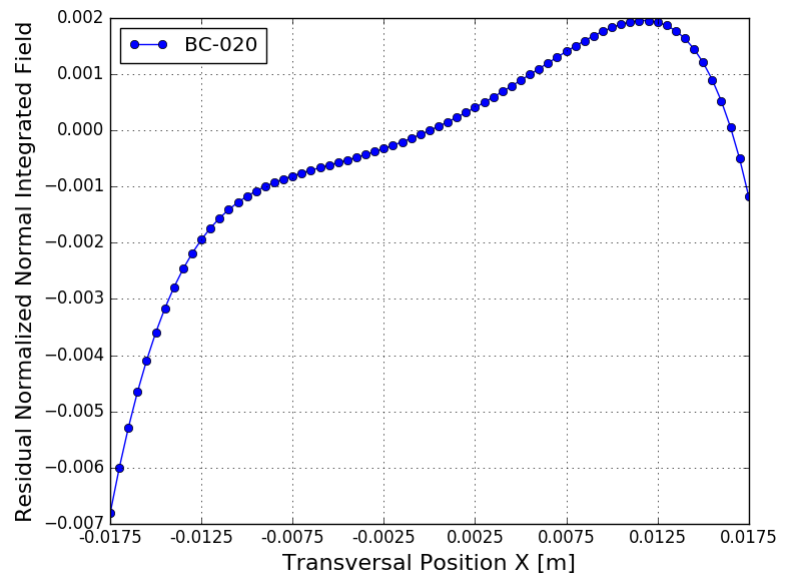
BOOSTER MAGNET REPORT

Results

Date	19/03/2015
Hour	14:12:06
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	(9.978 ± 0.003)
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3976 \pm 0.0002) \times E-3$
Magnet Center Offset X [μm]	--
Magnet Center Offset Y [μm]	--
Roll [mrad]	$(-1.4 \pm 0.5) \times E-1$

Electric Parameters

Indutance [mH]	3.148
Voltage [V]	0.678
Resistance [m Ω]	75.375
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)	$(-1.4 \pm 0.2) \times E-4$
2 (quadrupole)	$(2.55 \pm 0.06) \times E-3$	$(1.11 \pm 0.04) \times E-3$
3 (sextupole)	$(2.18 \pm 0.06) \times E-3$	$(3.3 \pm 0.4) \times E-4$
4	$(5 \pm 5) \times E-5$	$(5 \pm 8) \times E-5$
5	$(-2.20 \pm 0.07) \times E-3$	$(-3.7 \pm 0.5) \times E-4$
6	$(6.2 \pm 0.8) \times E-4$	$(2 \pm 1) \times E-4$
7	$(-4.09 \pm 0.09) \times E-3$	$(2.7 \pm 0.6) \times E-4$
8	$(-1.1 \pm 0.9) \times E-4$	$(-3 \pm 8) \times E-5$
9	$(-2.0 \pm 0.8) \times E-4$	$(1 \pm 9) \times E-5$
10	$(-2.3 \pm 0.7) \times E-4$	$(-8.62 \pm 101.37) \times E-6$
11	$(4 \pm 1) \times E-4$	$(6.1 \pm 11.0) \times E-5$
12	$(-3 \pm 9) \times E-5$	$(8 \pm 10) \times E-5$
13	$(-3 \pm 8) \times E-5$	$(-5.3 \pm 88.9) \times E-6$
14	$(-4 \pm 9) \times E-5$	$(-2 \pm 10) \times E-5$
15	$(-7.6 \pm 12.0) \times E-5$	$(-1.2 \pm 0.8) \times E-4$

