



BC-002

BOOSTER MAGNET REPORT

Results

Date 16/03/2015

Hour 11:11:01

Temperature [°C] --

Number of Measurements 20

Main Coil Current [A] (9.978 ± 0.002)

Trim Coil Current [A] --

Integrated Field [T.m] $(-3.32466 \pm 0.00008) \times 10^{-3}$

Magnet Center Offset X [μm] --

Magnet Center Offset Y [μm] --

Roll [mrad] $(-9.2 \pm 0.8) \times 10^{-1}$

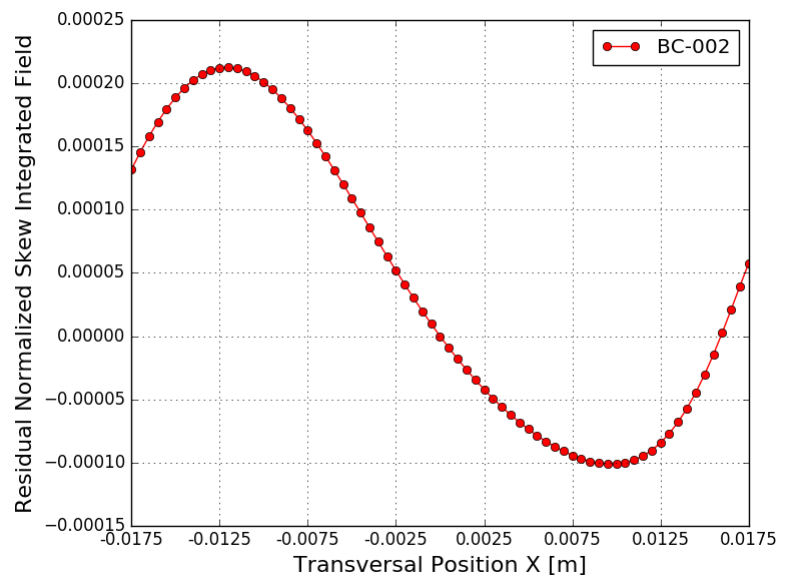
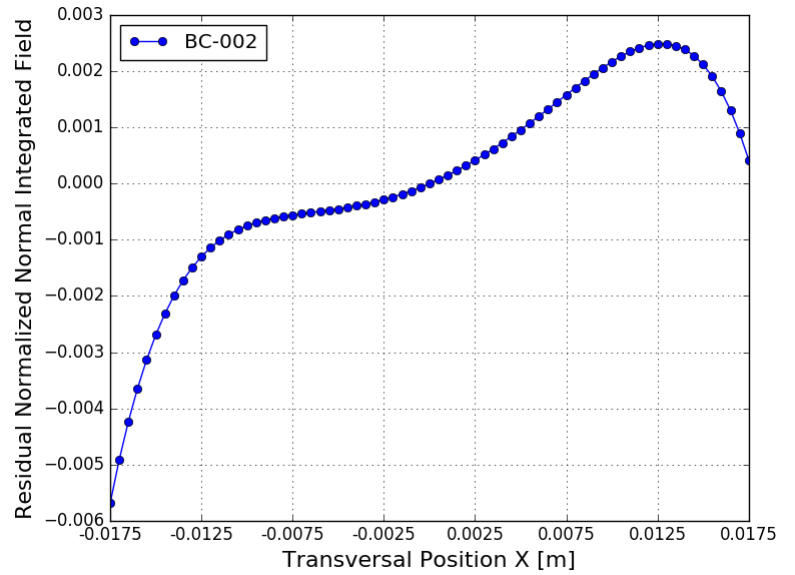
Electric Parameters

Indutance [mH] 3.190

Voltage [V] --

Resistance [m Ω] --

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 ± 0.00002)	$(-9.2 \pm 0.3) \times 10^{-4}$
2 (quadrupole)	$(2.44 \pm 0.05) \times 10^{-3}$	$(-3.3 \pm 0.4) \times 10^{-4}$
3 (sextupole)	$(3.32 \pm 0.04) \times 10^{-3}$	$(2.5 \pm 0.3) \times 10^{-4}$
4	$(1.8 \pm 0.5) \times 10^{-4}$	$(1.3 \pm 0.6) \times 10^{-4}$
5	$(-2.16 \pm 0.07) \times 10^{-3}$	$(-3.9 \pm 0.4) \times 10^{-4}$
6	$(5.2 \pm 0.4) \times 10^{-4}$	$(2.3 \pm 0.7) \times 10^{-4}$
7	$(-4.10 \pm 0.04) \times 10^{-3}$	$(3.5 \pm 0.5) \times 10^{-4}$
8	$(-8 \pm 4) \times 10^{-5}$	$(4.0 \pm 46.2) \times 10^{-6}$
9	$(-8 \pm 3) \times 10^{-5}$	$(-1.0 \pm 0.3) \times 10^{-4}$
10	$(-1.5 \pm 0.3) \times 10^{-4}$	$(-6 \pm 4) \times 10^{-5}$
11	$(5.1 \pm 0.4) \times 10^{-4}$	$(1 \pm 2) \times 10^{-5}$
12	$(6 \pm 4) \times 10^{-5}$	$(-1 \pm 4) \times 10^{-5}$
13	$(-8 \pm 5) \times 10^{-5}$	$(-2 \pm 5) \times 10^{-5}$
14	$(9 \pm 7) \times 10^{-5}$	$(-1.5 \pm 48.2) \times 10^{-6}$
15	$(-4 \pm 3) \times 10^{-5}$	$(-4.4 \pm 33.3) \times 10^{-6}$