

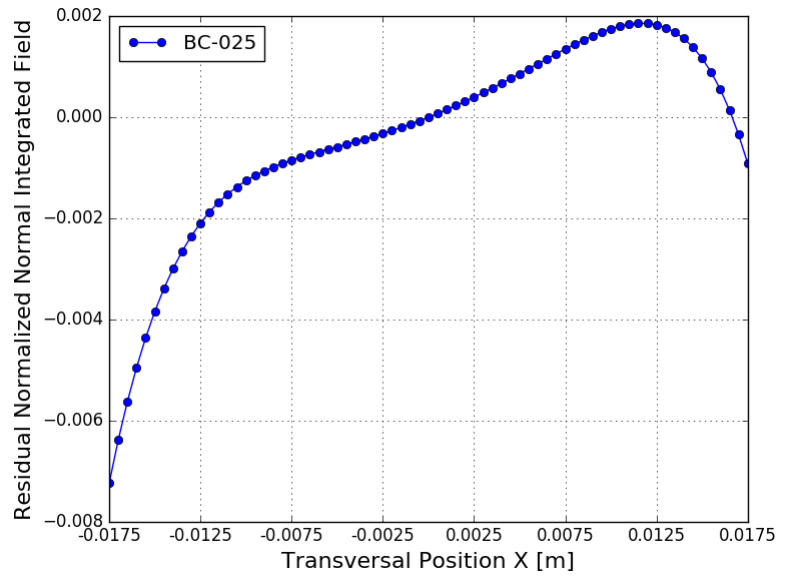


BC-025

## BOOSTER MAGNET REPORT

### Results

Date	20/03/2015
Hour	08:53:45
Temperature [°C]	24.0
Number of Measurements	20
Main Coil Current [A]	$(9.9799 \pm 0.0005)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3946 \pm 0.0001) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(2.0 \pm 0.7) \times E-1$
Electric Parameters	
Indutance [mH]	3.112
Voltage [V]	0.720
Resistance [m $\Omega$ ]	80.022
Main Coil Number of Turns	38.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]
1 (dipole)	$(1.00000 \pm 0.00004)$	$(2.0 \pm 0.2) \times E-4$
2 (quadrupole)	$(2.52 \pm 0.04) \times E-3$	$(1.15 \pm 0.02) \times E-3$
3 (sextupole)	$(1.92 \pm 0.04) \times E-3$	$(5.2 \pm 0.4) \times E-4$
4	$(1.2 \pm 0.3) \times E-4$	$(3 \pm 6) \times E-5$
5	$(-2.24 \pm 0.06) \times E-3$	$(-3.3 \pm 0.2) \times E-4$
6	$(7.5 \pm 0.4) \times E-4$	$(1.5 \pm 0.4) \times E-4$
7	$(-4.03 \pm 0.04) \times E-3$	$(3.6 \pm 0.4) \times E-4$
8	$(-1.0 \pm 0.3) \times E-4$	$(-1.1 \pm 0.5) \times E-4$
9	$(-1.1 \pm 0.3) \times E-4$	$(-2 \pm 3) \times E-5$
10	$(-1.9 \pm 0.3) \times E-4$	$(1 \pm 1) \times E-5$
11	$(5.3 \pm 0.3) \times E-4$	$(-3.0 \pm 41.9) \times E-6$
12	$(-1 \pm 3) \times E-5$	$(-6 \pm 3) \times E-5$
13	$(-1.1 \pm 0.4) \times E-4$	$(-4.7 \pm 46.2) \times E-6$
14	$(8 \pm 5) \times E-5$	$(7.72 \pm 430.87) \times E-7$
15	$(-4 \pm 7) \times E-5$	$(3 \pm 5) \times E-5$

