



BC-021

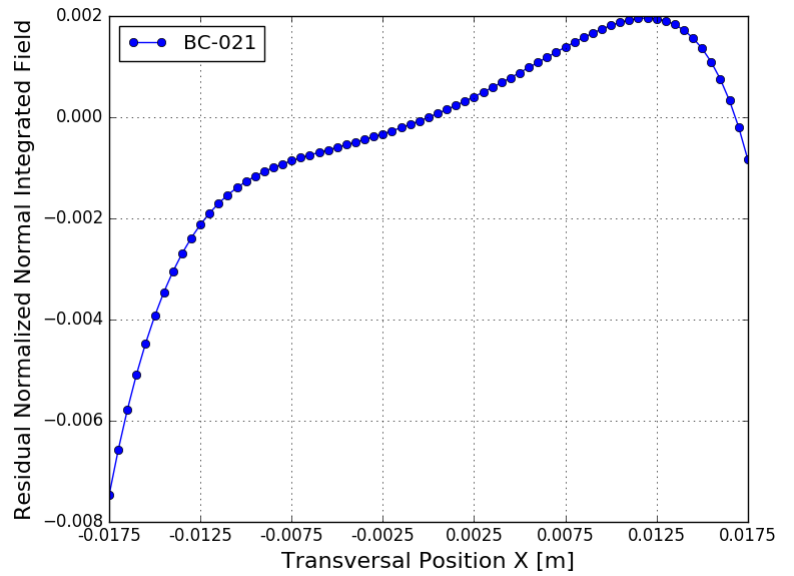
## BOOSTER MAGNET REPORT

### Results

Date	19/03/2015
Hour	14:59:10
Temperature [°C]	--
Number of Measurements	20
Main Coil Current [A]	$(9.978 \pm 0.004)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3969 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-1.0 \pm 0.1)$

### Electric Parameters

Indutance [mH]	3.134
Voltage [V]	0.699
Resistance [m $\Omega$ ]	77.678
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)	$(1.00000 \pm 0.00005)$	$(-1.02 \pm 0.04) \times E-3$
2 (quadrupole)	$(2.56 \pm 0.05) \times E-3$	$(9 \pm 1) \times E-4$
3 (sextupole)	$(1.97 \pm 0.09) \times E-3$	$(2.6 \pm 1.0) \times E-4$
4	$(2 \pm 1) \times E-4$	$(2 \pm 1) \times E-4$
5	$(-2.21 \pm 0.09) \times E-3$	$(-5 \pm 2) \times E-4$
6	$(7 \pm 1) \times E-4$	$(5 \pm 2) \times E-4$
7	$(-3.9 \pm 0.1) \times E-3$	$(1 \pm 2) \times E-4$
8	$(1 \pm 1) \times E-4$	$(1.5 \pm 1.0) \times E-4$
9	$(-2 \pm 1) \times E-4$	$(-1.9 \pm 0.8) \times E-4$
10	$(1.93 \pm 856.48) \times E-7$	$(-4 \pm 8) \times E-5$
11	$(4 \pm 1) \times E-4$	$(-1 \pm 1) \times E-4$
12	$(-2 \pm 8) \times E-5$	$(-8.3 \pm 12.8) \times E-5$
13	$(-1.4 \pm 0.7) \times E-4$	$(2 \pm 1) \times E-4$
14	$(-2.3 \pm 0.9) \times E-4$	$(-2 \pm 1) \times E-4$
15	$(-1.4 \pm 0.7) \times E-4$	$(9.2 \pm 15.1) \times E-5$

