



# BC-042

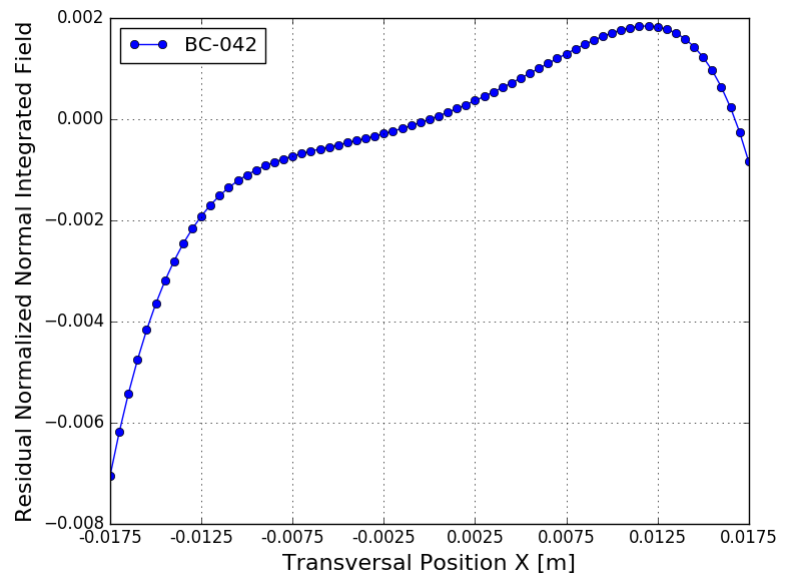
## BOOSTER MAGNET REPORT

### Results

Date	05/05/2015
Hour	14:47:13
Temperature [°C]	24.0
Number of Measurements	20
Main Coil Current [A]	$(9.978 \pm 0.004)$
Trim Coil Current [A]	--
Integrated Field [T.m]	$(-3.3788 \pm 0.0002) \times E-3$
Magnet Center Offset X [ $\mu\text{m}$ ]	--
Magnet Center Offset Y [ $\mu\text{m}$ ]	--
Roll [mrad]	$(-7.7 \pm 0.9) \times E-1$

### Electric Parameters

Indutance [mH]	3.150
Voltage [V]	0.804
Resistance [m $\Omega$ ]	89.292
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)	$(1 \pm 0)$	$(-8 \pm 0) \times E-4$
2 (quadrupole)	$(2 \pm 0) \times E-3$	$(1 \pm 0) \times E-4$
3 (sextupole)	$(2 \pm 0) \times E-3$	$(1 \pm 0) \times E-4$
4	$(3 \pm 0) \times E-4$	$(-9 \pm 0) \times E-5$
5	$(-2 \pm 0) \times E-3$	$(6 \pm 0) \times E-6$
6	$(8 \pm 0) \times E-4$	$(8 \pm 0) \times E-6$
7	$(-4 \pm 0) \times E-3$	$(2 \pm 0) \times E-4$
8	$(-3 \pm 0) \times E-5$	$(4 \pm 0) \times E-5$
9	$(4 \pm 0) \times E-5$	$(-3 \pm 0) \times E-7$
10	$(-2 \pm 0) \times E-4$	$(-1 \pm 0) \times E-4$
11	$(5 \pm 0) \times E-4$	$(-3 \pm 0) \times E-5$
12	$(-9 \pm 0) \times E-6$	$(-8 \pm 0) \times E-5$
13	$(-1 \pm 0) \times E-4$	$(2 \pm 0) \times E-4$
14	$(8 \pm 0) \times E-6$	$(3 \pm 0) \times E-5$
15	$(-1 \pm 0) \times E-4$	$(8 \pm 0) \times E-5$

