



BC-002

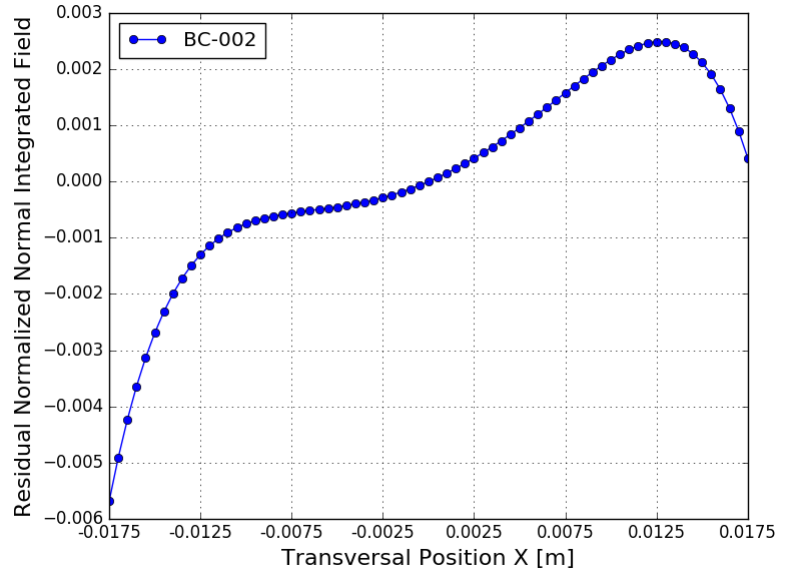
BOOSTER MAGNET REPORT

Results

| | |
|--|---|
| Date | 16/03/2015 |
| Hour | 11:11:01 |
| Temperature [°C] | 24.0 |
| 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 | $(-4 \pm 3) \times 10^{-5}$ | $(-4.4 \pm 33.3) \times 10^{-6}$ |

