



BC-077

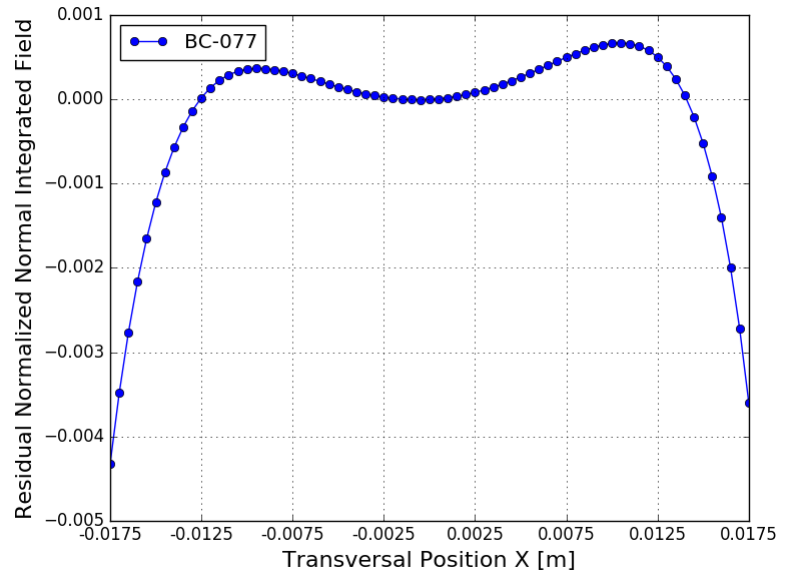
BOOSTER MAGNET REPORT

Results

| | |
|--|---|
| Date | 27/04/2016 |
| Hour | 15:52:18 |
| Temperature [°C] | 23.0 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (9.979 ± 0.004) |
| Trim Coil Current [A] | -- |
| Integrated Field [T.m] | $(-3.38189 \pm 0.00008) \times 10^{-3}$ |
| Magnet Center Offset X [μm] | -- |
| Magnet Center Offset Y [μm] | -- |
| Roll [mrad] | $(2.4 \pm 0.9) \times 10^{-1}$ |

Electric Parameters

| | |
|---------------------------|--------|
| Indutance [mH] | 3.245 |
| Voltage [V] | 0.765 |
| Resistance [m Ω] | 76.500 |
| 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) | $(2.4 \pm 0.3) \times 10^{-4}$ |
| 2 (quadrupole) | $(1.9 \pm 0.4) \times 10^{-4}$ | $(-4.9 \pm 0.4) \times 10^{-4}$ |
| 3 (sextupole) | $(2.76 \pm 0.04) \times 10^{-3}$ | $(1.1 \pm 0.7) \times 10^{-4}$ |
| 4 | $(6 \pm 9) \times 10^{-5}$ | $(6 \pm 5) \times 10^{-5}$ |
| 5 | $(-2.3 \pm 0.1) \times 10^{-3}$ | $(8.3 \pm 14.0) \times 10^{-5}$ |
| 6 | $(5.9 \pm 0.7) \times 10^{-4}$ | $(-4.3 \pm 10.9) \times 10^{-5}$ |
| 7 | $(-4.1 \pm 0.1) \times 10^{-3}$ | $(1 \pm 1) \times 10^{-4}$ |
| 8 | $(-2 \pm 1) \times 10^{-4}$ | $(-2 \pm 1) \times 10^{-4}$ |
| 9 | $(1.02 \pm 103.91) \times 10^{-6}$ | $(-3.3 \pm 11.0) \times 10^{-5}$ |
| 10 | $(-2 \pm 1) \times 10^{-4}$ | $(-2 \pm 2) \times 10^{-4}$ |
| 11 | $(2 \pm 1) \times 10^{-4}$ | $(-1 \pm 1) \times 10^{-4}$ |
| 12 | $(-2.8 \pm 11.6) \times 10^{-5}$ | $(-2.8 \pm 15.0) \times 10^{-5}$ |
| 13 | $(-3 \pm 1) \times 10^{-4}$ | $(1 \pm 1) \times 10^{-4}$ |
| 14 | $(-5.6 \pm 13.0) \times 10^{-5}$ | $(2 \pm 9) \times 10^{-5}$ |
| 15 | $(-2 \pm 1) \times 10^{-4}$ | $(4 \pm 1) \times 10^{-4}$ |

