



BC-027

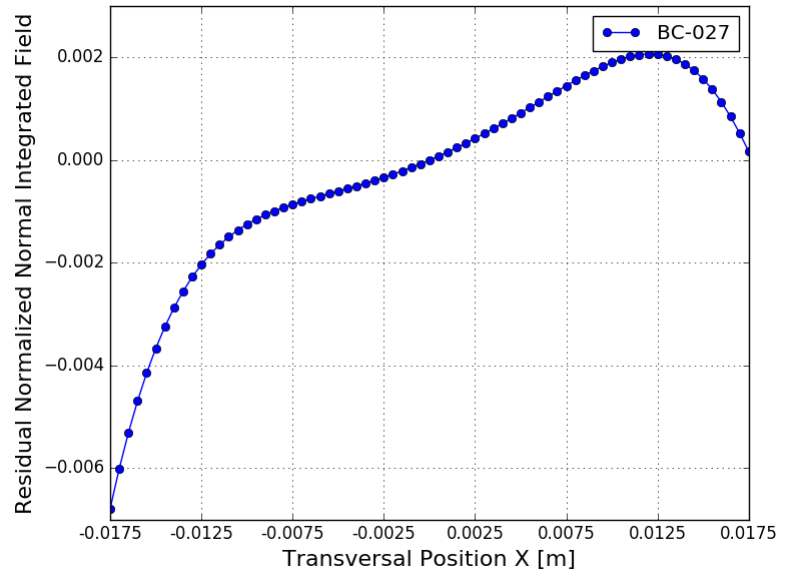
BOOSTER MAGNET REPORT

Results

| | |
|--|-----------------------------------|
| Date | 20/03/2015 |
| Hour | 13:56:48 |
| Temperature [°C] | 24.0 |
| Number of Measurements | 20 |
| Main Coil Current [A] | (9.979 ± 0.005) |
| Trim Coil Current [A] | -- |
| Integrated Field [T.m] | $(-3.3890 \pm 0.0002) \times E-3$ |
| Magnet Center Offset X [μm] | -- |
| Magnet Center Offset Y [μm] | -- |
| Roll [mrad] | $(-8.8 \pm 0.8) \times E-1$ |

Electric Parameters

| | |
|---------------------------------|--------|
| Indutance [mH] | 3.151 |
| Voltage [V] | 0.682 |
| Resistance [$\text{m}\Omega$] | 75.787 |
| 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 ± 0.00006) | $(-8.8 \pm 0.3) \times E-4$ |
| 2 (quadrupole) | $(2.65 \pm 0.07) \times E-3$ | $(1.02 \pm 0.07) \times E-3$ |
| 3 (sextupole) | $(2.13 \pm 0.06) \times E-3$ | $(2 \pm 1) \times E-4$ |
| 4 | $(1.3 \pm 0.7) \times E-4$ | $(-2.1 \pm 0.5) \times E-4$ |
| 5 | $(-2.2 \pm 0.1) \times E-3$ | $(-3.4 \pm 1.0) \times E-4$ |
| 6 | $(6 \pm 1) \times E-4$ | $(2.0 \pm 0.5) \times E-4$ |
| 7 | $(-4.0 \pm 0.1) \times E-3$ | $(4.0 \pm 0.8) \times E-4$ |
| 8 | $(-6.6 \pm 10.7) \times E-5$ | $(2.6 \pm 11.0) \times E-5$ |
| 9 | $(5 \pm 8) \times E-5$ | $(2 \pm 9) \times E-5$ |
| 10 | $(-2 \pm 2) \times E-4$ | $(-2 \pm 1) \times E-4$ |
| 11 | $(6 \pm 1) \times E-4$ | $(-1.4 \pm 0.9) \times E-4$ |
| 12 | $(2 \pm 1) \times E-4$ | $(-2.6 \pm 12.1) \times E-5$ |
| 13 | $(4 \pm 10) \times E-5$ | $(-7.1 \pm 10.2) \times E-5$ |
| 14 | $(1.5 \pm 1.0) \times E-4$ | $(8.8 \pm 12.8) \times E-5$ |
| 15 | $(3 \pm 10) \times E-5$ | $(7.3 \pm 16.3) \times E-5$ |

