



BS-037

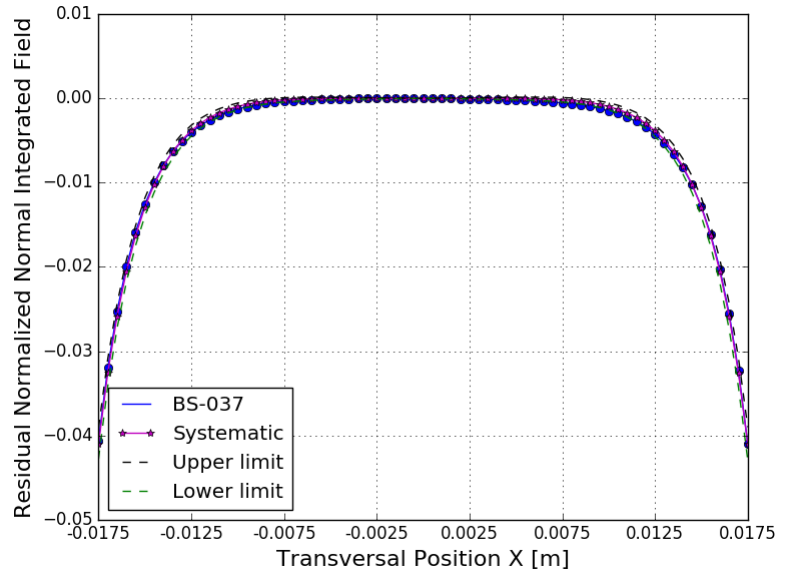
BOOSTER MAGNET REPORT

Results

| | |
|--|---------------------|
| Date | 27/10/2016 |
| Hour | 11:45:25 |
| Temperature [°C] | 23.1 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (149.945 ± 0.001) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T/m] | (-21.4144 ± 0.0005) |
| Magnet Center Offset X [μm] - (< ±160.0) | (1.9 ± 0.1) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-42.5 ± 0.2) |
| Roll [mrad] - (< ±0.8) | (-7.1 ± 0.8) × E-2 |

Electric Parameters

| | |
|---------------------------|-------|
| Inductance [mH] | 0.109 |
| Voltage [V] | -- |
| Resistance [mΩ] | -- |
| Main Coil Number of Turns | 3 |



| n | Normalized Normal Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾] | Normalized Skew Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾] |
|----------------|--|--|
| 1 (dipole) | (-3.25 ± 0.04) × E-3 | (-2.19 ± 0.03) × E-3 |
| 2 (quadrupole) | (2.2 ± 0.1) × E-4 | (-4.86 ± 0.03) × E-3 |
| 3 (sextupole) | (1.00000 ± 0.00002) | (-2.1 ± 0.3) × E-4 |
| 4 | (-2.3 ± 0.1) × E-4 | (-4.0 ± 0.4) × E-4 |
| 5 | (-1.66 ± 0.03) × E-3 | (1.1 ± 0.3) × E-4 |
| 6 | (1.2 ± 0.3) × E-4 | (-2 ± 3) × E-5 |
| 7 | (-4.0 ± 0.2) × E-4 | (1.2 ± 0.4) × E-4 |
| 8 | (2 ± 3) × E-5 | (3.6 ± 0.3) × E-4 |
| 9 | (-2.176 ± 0.003) × E-2 | (9.2 ± 30.5) × E-6 |
| 10 | (2 ± 3) × E-5 | (5 ± 5) × E-5 |
| 11 | (1.3 ± 0.6) × E-4 | (8.6 ± 45.3) × E-6 |
| 12 | (-4 ± 3) × E-5 | (3 ± 6) × E-5 |
| 13 | (3 ± 5) × E-5 | (2 ± 4) × E-5 |
| 14 | (-8 ± 5) × E-5 | (5.3 ± 0.4) × E-4 |
| 15 | (-1.712 ± 0.005) × E-2 | (2 ± 9) × E-5 |

