



BS-024

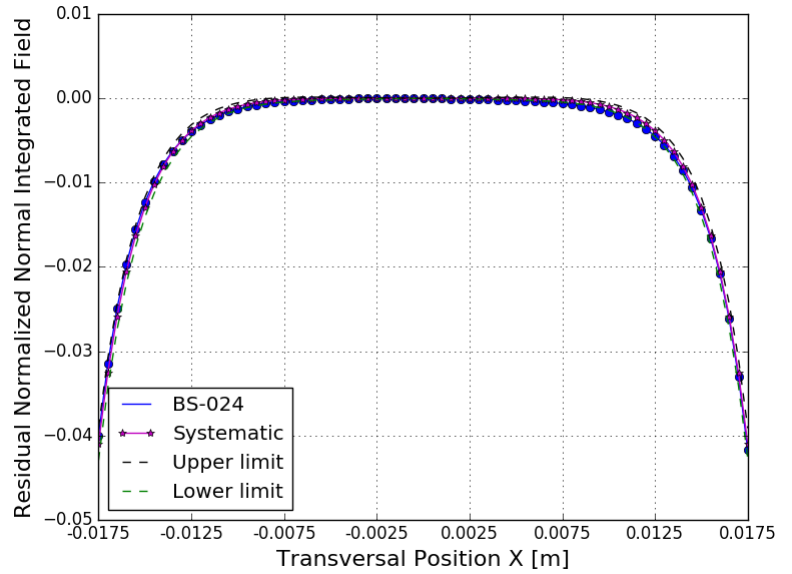
BOOSTER MAGNET REPORT

Results

| | |
|--|----------------------|
| Date | 01/11/2016 |
| Hour | 11:15:48 |
| Temperature [°C] | 23.1 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (149.955 ± 0.002) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T/m] | (-21.4480 ± 0.0004) |
| Magnet Center Offset X [μm] - (< ±160.0) | (40.3 ± 0.2) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-40.2 ± 0.2) |
| Roll [mrad] - (< ±0.8) | (-5.22 ± 0.05) × E-1 |

Electric Parameters

| | |
|---------------------------|-------|
| Inductance [mH] | 0.108 |
| 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) | (-3.93 ± 0.02) × E-3 | (1.7 ± 0.3) × E-4 |
| 2 (quadrupole) | (4.61 ± 0.02) × E-3 | (-4.60 ± 0.02) × E-3 |
| 3 (sextupole) | (1.00000 ± 0.00002) | (-1.57 ± 0.02) × E-3 |
| 4 | (-2.8 ± 0.2) × E-4 | (-1.07 ± 0.02) × E-3 |
| 5 | (-1.82 ± 0.03) × E-3 | (-3.0 ± 0.3) × E-4 |
| 6 | (4 ± 3) × E-5 | (2 ± 3) × E-5 |
| 7 | (-3.5 ± 0.2) × E-4 | (-1.7 ± 0.3) × E-4 |
| 8 | (-3.7 ± 0.2) × E-4 | (5.0 ± 0.5) × E-4 |
| 9 | (-2.173 ± 0.004) × E-2 | (8 ± 3) × E-5 |
| 10 | (-2 ± 3) × E-5 | (1.1 ± 0.5) × E-4 |
| 11 | (1.2 ± 0.4) × E-4 | (8 ± 5) × E-5 |
| 12 | (-3.6 ± 98.6) × E-6 | (6 ± 6) × E-5 |
| 13 | (6.7 ± 63.5) × E-6 | (4 ± 6) × E-5 |
| 14 | (-2.2 ± 0.7) × E-4 | (6.3 ± 0.7) × E-4 |
| 15 | (-1.710 ± 0.006) × E-2 | (-3 ± 7) × E-5 |

