



BS-029

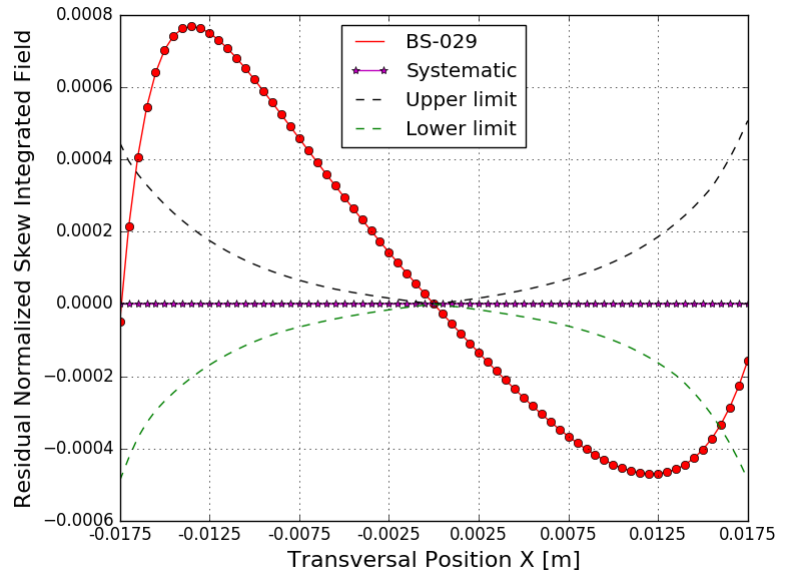
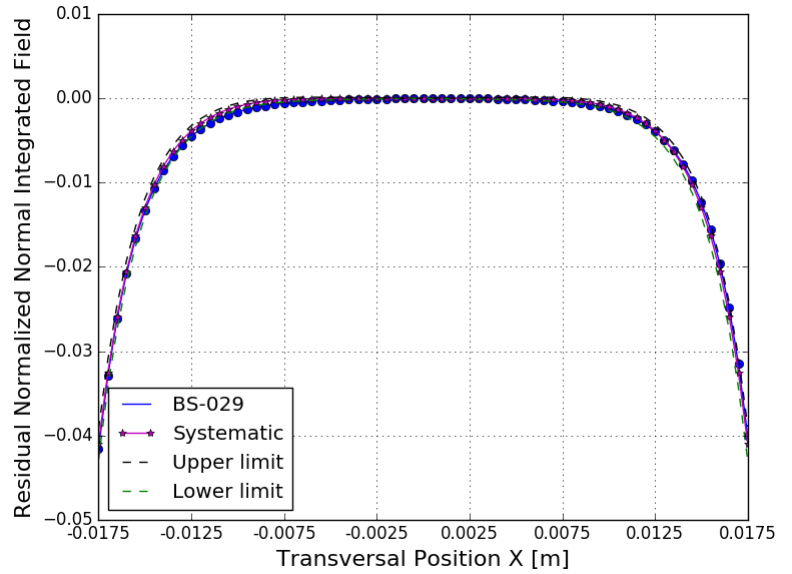
BOOSTER MAGNET REPORT

Results

| | |
|--|---------------------|
| Date | 20/10/2016 |
| Hour | 15:23:59 |
| Temperature [°C] | 23.0 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (149.941 ± 0.002) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T/m] | (-21.4153 ± 0.0006) |
| Magnet Center Offset X [μm] - (< ±160.0) | (-27.0 ± 0.1) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-36.9 ± 0.2) |
| Roll [mrad] - (< ±0.8) | (4.29 ± 0.07) x E-1 |

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) | (-3.20 ± 0.02) x E-3 | (-3.19 ± 0.02) x E-3 |
| 2 (quadrupole) | (-3.09 ± 0.01) x E-3 | (-4.22 ± 0.02) x E-3 |
| 3 (sextupole) | (1.00000 ± 0.00003) | (1.29 ± 0.02) x E-3 |
| 4 | (2.2 ± 0.2) x E-4 | (-9.7 ± 0.3) x E-4 |
| 5 | (-1.77 ± 0.02) x E-3 | (2.1 ± 0.4) x E-4 |
| 6 | (2.0 ± 0.1) x E-4 | (-3 ± 3) x E-5 |
| 7 | (-4.8 ± 0.4) x E-4 | (2.6 ± 0.3) x E-4 |
| 8 | (3.7 ± 0.4) x E-4 | (4.4 ± 0.4) x E-4 |
| 9 | (-2.171 ± 0.003) x E-2 | (-1.9 ± 0.3) x E-4 |
| 10 | (5 ± 4) x E-5 | (3 ± 4) x E-5 |
| 11 | (1.0 ± 0.4) x E-4 | (-3 ± 7) x E-5 |
| 12 | (6.5 ± 31.9) x E-6 | (-3 ± 3) x E-5 |
| 13 | (-4.4 ± 72.6) x E-6 | (-1 ± 1) x E-4 |
| 14 | (-7 ± 9) x E-5 | (5.1 ± 1.0) x E-4 |
| 15 | (-1.698 ± 0.005) x E-2 | (-2.5 ± 0.6) x E-4 |