



S15-033

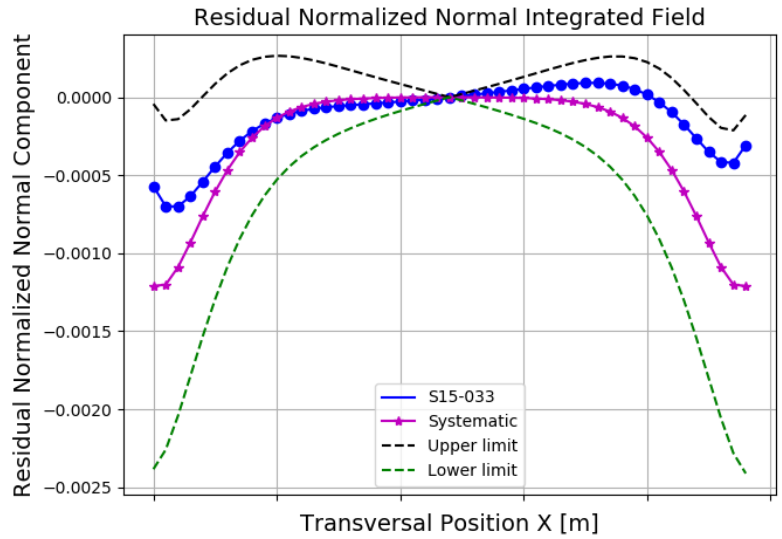
STORAGE RING MAGNET REPORT

Results

| | |
|---|---------------------|
| Date | 15/08/2018 |
| Hour | 10:54:51 |
| Temperature [°C] | 23.404 |
| Number of Measurements | 9 |
| Main Coil Current [A] | (167.797 ± 0.002) |
| Trim Coil Current [A] | (0 ± 0) |
| CH Coil Current [A] | (0 ± 0) |
| CV Coil Current [A] | (0 ± 0) |
| QS Coil Current [A] | (0 ± 0) |
| Integrated Gradient [T/m] | (-360.770 ± 0.003) |
| Magnet Center Offset X [μm] - (< ±40.0) | (11.15 ± 0.06) |
| Magnet Center Offset Y [μm] - (< ±40.0) | (15.3 ± 0.1) |
| Roll [mrad] - (< ±0.3) | (1.69 ± 0.06) x E-1 |

Electric Parameters

| | |
|---------------------------|--------|
| Inductance [mH] | 3.157 |
| Voltage [V] | 6.0106 |
| Resistance [mΩ] | 35.82 |
| Main Coil Number of Turns | 11.25 |



| n | Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾] | Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾] |
|----------------|--|--|
| 1 (dipole) | (-1.293 ± 0.005) x E-3 | (4.4 ± 0.2) x E-4 |
| 2 (quadrupole) | (-1.859 ± 0.009) x E-3 | (-2.55 ± 0.02) x E-3 |
| 3 (sextupole) | (1.00000 ± 0.00001) | (5.1 ± 0.2) x E-4 |
| 4 | (1.9 ± 0.1) x E-4 | (-5 ± 2) x E-5 |
| 5 | (1.1 ± 0.1) x E-4 | (-1.30 ± 0.10) x E-4 |
| 6 | (-4 ± 2) x E-5 | (-5.2 ± 18.7) x E-6 |
| 7 | (10 ± 1) x E-5 | (1 ± 3) x E-5 |
| 8 | (3 ± 1) x E-5 | (1 ± 2) x E-5 |
| 9 | (-2.04 ± 0.02) x E-3 | (3.2 ± 0.2) x E-4 |
| 10 | (1 ± 1) x E-5 | (-6.4 ± 14.9) x E-6 |
| 11 | (8.8 ± 18.8) x E-6 | (1 ± 2) x E-5 |
| 12 | (-3 ± 1) x E-5 | (-4.3 ± 18.2) x E-6 |
| 13 | (-3 ± 7) x E-6 | (1 ± 1) x E-5 |
| 14 | (-2.4 ± 0.9) x E-5 | (-2 ± 1) x E-5 |
| 15 | (1.39 ± 0.01) x E-3 | (-5 ± 1) x E-5 |

