



S15-189

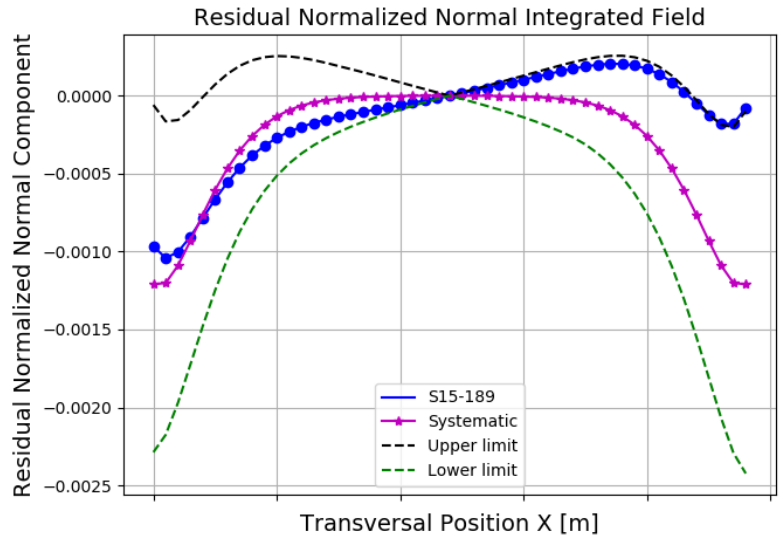
STORAGE RING MAGNET REPORT

Results

| | |
|---|----------------------|
| Date | 10/07/2018 |
| Hour | 11:39:42 |
| Temperature [°C] | 23.672 |
| Number of Measurements | 9 |
| Main Coil Current [A] | (167.799 ± 0.003) |
| 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] | (-359.882 ± 0.004) |
| Magnet Center Offset X [μm] - (< ±40.0) | (13.70 ± 0.07) |
| Magnet Center Offset Y [μm] - (< ±40.0) | (31.18 ± 0.08) |
| Roll [mrad] - (< ±0.3) | (-1.13 ± 0.04) 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) | (-1.235 ± 0.004) x E-3 | (-5.4 ± 0.1) x E-4 |
| 2 (quadrupole) | (-2.28 ± 0.01) x E-3 | (-5.20 ± 0.01) x E-3 |
| 3 (sextupole) | (1.00000 ± 0.00001) | (-3.4 ± 0.1) x E-4 |
| 4 | (3.8 ± 0.1) x E-4 | (4.4 ± 0.2) x E-4 |
| 5 | (1.1 ± 0.1) x E-4 | (1.5 ± 0.1) x E-4 |
| 6 | (6 ± 2) x E-5 | (-1.0 ± 14.9) x E-6 |
| 7 | (6 ± 1) x E-5 | (-4 ± 2) x E-5 |
| 8 | (5.5 ± 0.8) x E-5 | (1 ± 2) x E-5 |
| 9 | (-1.99 ± 0.02) x E-3 | (4.4 ± 0.2) x E-4 |
| 10 | (1 ± 2) x E-5 | (-5 ± 2) x E-5 |
| 11 | (6.0 ± 23.2) x E-6 | (-3 ± 2) x E-5 |
| 12 | (-2 ± 2) x E-5 | (-6.6 ± 14.2) x E-6 |
| 13 | (-1 ± 2) x E-5 | (2 ± 2) x E-5 |
| 14 | (-5 ± 1) x E-5 | (-2 ± 2) x E-5 |
| 15 | (1.31 ± 0.02) x E-3 | (-6 ± 2) x E-5 |

