



S15-070

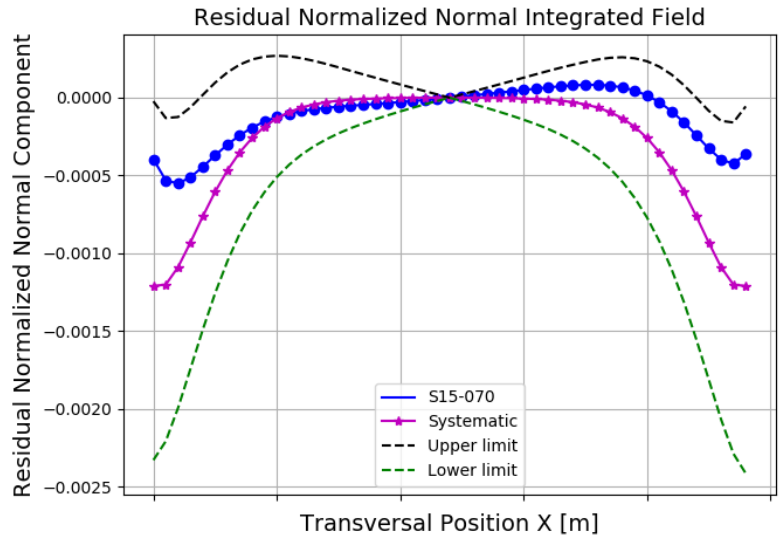
STORAGE RING MAGNET REPORT

Results

| | |
|---|----------------------|
| Date | 31/08/2018 |
| Hour | 10:17:19 |
| Temperature [°C] | 23.391 |
| Number of Measurements | 9 |
| Main Coil Current [A] | (167.7975 ± 0.0008) |
| 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] | (-359.557 ± 0.002) |
| Magnet Center Offset X [μm] - (< ±40.0) | (29.76 ± 0.02) |
| Magnet Center Offset Y [μm] - (< ±40.0) | (36.86 ± 0.07) |
| Roll [mrad] - (< ±0.3) | (-1.09 ± 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) | (-8.30 ± 0.02) x E-4 | (3.4 ± 0.1) x E-4 |
| 2 (quadrupole) | (-4.959 ± 0.003) x E-3 | (-6.14 ± 0.01) x E-3 |
| 3 (sextupole) | (1.000000 ± 0.000009) | (-3.3 ± 0.1) x E-4 |
| 4 | (1.83 ± 0.05) x E-4 | (3.6 ± 0.1) x E-4 |
| 5 | (7.5 ± 0.4) x E-5 | (-2.19 ± 0.08) x E-4 |
| 6 | (-5.7 ± 0.4) x E-5 | (-4 ± 9) x E-6 |
| 7 | (9.4 ± 0.5) x E-5 | (5 ± 10) x E-6 |
| 8 | (2.4 ± 0.4) x E-5 | (-4.7 ± 0.9) x E-5 |
| 9 | (-1.707 ± 0.007) x E-3 | (3.56 ± 0.08) x E-4 |
| 10 | (-7 ± 1) x E-5 | (1.5 ± 12.9) x E-6 |
| 11 | (1 ± 2) x E-5 | (4 ± 2) x E-5 |
| 12 | (-6.9 ± 12.1) x E-6 | (5.8 ± 12.8) x E-6 |
| 13 | (-2.0 ± 1.0) x E-5 | (9.2 ± 14.9) x E-6 |
| 14 | (-6.2 ± 0.9) x E-5 | (-1.8 ± 0.9) x E-5 |
| 15 | (1.17 ± 0.01) x E-3 | (-1.63 ± 0.07) x E-4 |

