



Q14-065

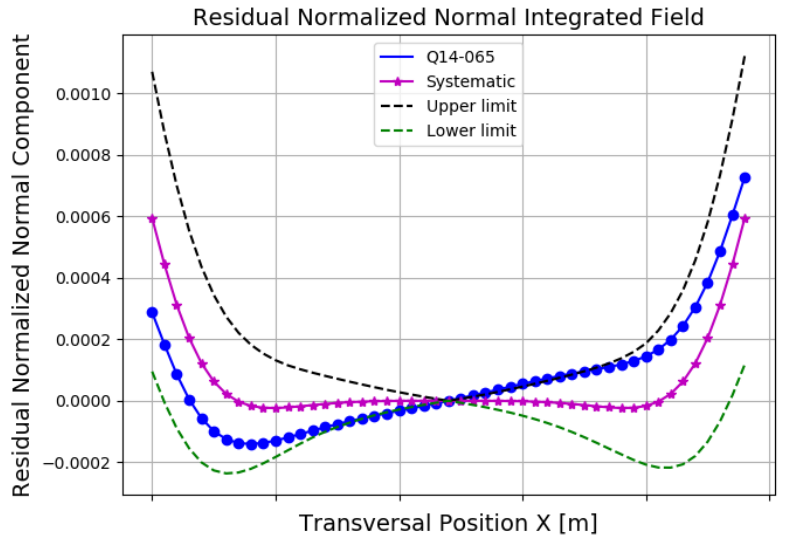
STORAGE RING MAGNET REPORT

Results

| | |
|---|----------------------|
| Date | 06/04/2018 |
| Hour | 11:32:55 |
| Temperature [°C] | 23.5 |
| Number of Measurements | 9 |
| Main Coil Current [A] | (147.9954 ± 0.0009) |
| 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] | (-5.23323 ± 0.00004) |
| Magnet Center Offset X [μm] - (< ±40.0) | (5.98 ± 0.05) |
| Magnet Center Offset Y [μm] - (< ±40.0) | (12.08 ± 0.06) |
| Roll [mrad] - (< ±0.3) | (-2.05 ± 0.02) × E-1 |

Electric Parameters

| | |
|---------------------------|--------|
| Inductance [mH] | 4.781 |
| Voltage [V] | 4.4843 |
| Resistance [mΩ] | 30.3 |
| Main Coil Number of Turns | 20.0 |



| 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) | (-4.99 ± 0.04) × E-4 | (-1.007 ± 0.005) × E-3 |
| 2 (quadrupole) | (1.00000 ± 0.00001) | (-4.11 ± 0.04) × E-4 |
| 3 (sextupole) | (2.06 ± 0.03) × E-4 | (3.81 ± 0.06) × E-4 |
| 4 | (7.3 ± 0.3) × E-5 | (-6.2 ± 0.1) × E-5 |
| 5 | (2.0 ± 0.4) × E-5 | (-3.8 ± 0.2) × E-5 |
| 6 | (-4.30 ± 0.04) × E-4 | (2.4 ± 0.3) × E-5 |
| 7 | (-2 ± 3) × E-6 | (-1.9 ± 0.3) × E-5 |
| 8 | (-4 ± 4) × E-6 | (1.5 ± 36.5) × E-7 |
| 9 | (-8 ± 3) × E-6 | (1 ± 4) × E-6 |
| 10 | (1.531 ± 0.002) × E-3 | (-7 ± 4) × E-6 |
| 11 | (2 ± 5) × E-6 | (5.41 ± 323.43) × E-8 |
| 12 | (6 ± 6) × E-6 | (1.0 ± 0.2) × E-5 |
| 13 | (6 ± 3) × E-6 | (-2.4 ± 25.9) × E-7 |
| 14 | (-6.68 ± 0.03) × E-4 | (-1.1 ± 0.3) × E-5 |
| 15 | (-3 ± 3) × E-6 | (-3 ± 4) × E-6 |

