



S15-109

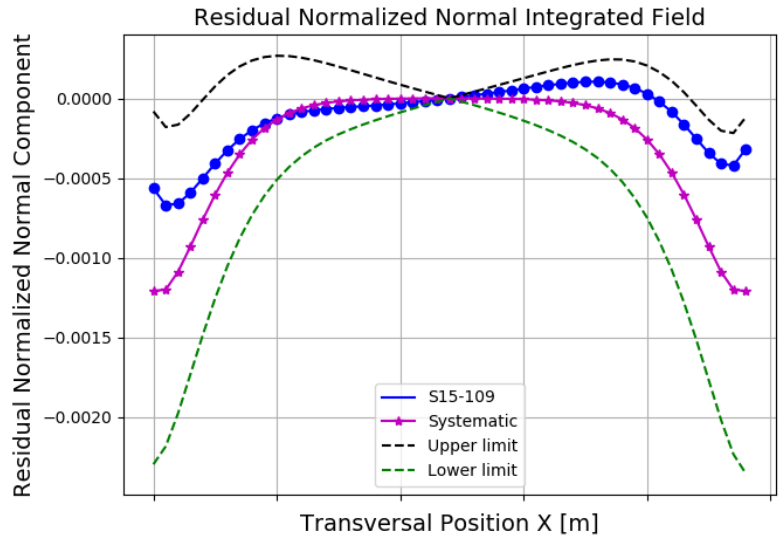
STORAGE RING MAGNET REPORT

Results

Date	14/08/2018
Hour	10:57:01
Temperature [°C]	23.465
Number of Measurements	9
Main Coil Current [A]	(167.7977 ± 0.0007)
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]	(-360.063 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(3.444 ± 0.009)
Magnet Center Offset Y [μm] - (< ±40.0)	(14.38 ± 0.04)
Roll [mrad] - (< ±0.3)	(2.57 ± 0.02) 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)	(-1.087 ± 0.003) x E-3	(-4.54 ± 0.06) x E-4
2 (quadrupole)	(-5.74 ± 0.02) x E-4	(-2.396 ± 0.007) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(7.70 ± 0.07) x E-4
4	(2.17 ± 0.04) x E-4	(-2.30 ± 0.08) x E-4
5	(1.36 ± 0.04) x E-4	(7.5 ± 0.8) x E-5
6	(-1.06 ± 0.05) x E-4	(-1.4 ± 0.9) x E-5
7	(9.5 ± 0.6) x E-5	(-10 ± 5) x E-6
8	(10 ± 5) x E-6	(1.0 ± 0.8) x E-5
9	(-1.979 ± 0.003) x E-3	(2.01 ± 0.04) x E-4
10	(-9 ± 5) x E-6	(3 ± 6) x E-6
11	(-5 ± 6) x E-6	(-1.1 ± 0.8) x E-5
12	(2.6 ± 0.6) x E-5	(-8 ± 6) x E-6
13	(-3 ± 1) x E-5	(1 ± 7) x E-6
14	(-1.3 ± 0.5) x E-5	(-6 ± 6) x E-6
15	(1.339 ± 0.006) x E-3	(-1.8 ± 0.5) x E-5

