



S15-090

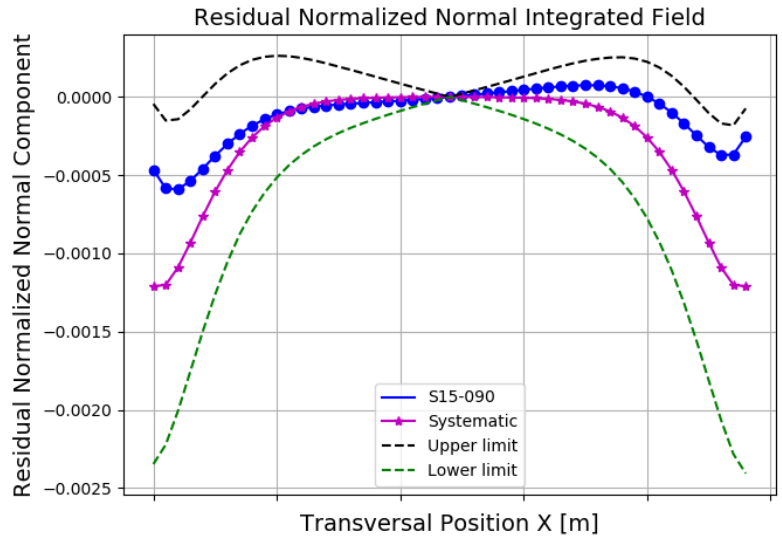
STORAGE RING MAGNET REPORT

Results

Date	29/08/2018
Hour	15:27:51
Temperature [°C]	23.283
Number of Measurements	9
Main Coil Current [A]	(167.7983 ± 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]	(-359.895 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(16.42 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(25.99 ± 0.03)
Roll [mrad] - (< ±0.3)	(-1.05 ± 0.02) × 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⁾]
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1 (dipole)	(-6.2 ± 0.8) × E-5	(3.72 ± 0.08) × E-4
2 (quadrupole)	(-2.737 ± 0.003) × E-3	(-4.332 ± 0.005) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-3.16 ± 0.06) × E-4
4	(1.61 ± 0.05) × E-4	(3.28 ± 0.06) × E-4
5	(9.5 ± 1.0) × E-5	(-2.2 ± 0.7) × E-5
6	(-5.6 ± 0.8) × E-5	(-2 ± 5) × E-6
7	(4.2 ± 0.7) × E-5	(2 ± 3) × E-6
8	(1.3 ± 0.7) × E-5	(3 ± 8) × E-6
9	(-1.712 ± 0.008) × E-3	(3.33 ± 0.07) × E-4
10	(2 ± 5) × E-6	(-3.0 ± 0.9) × E-5
11	(-4.5 ± 13.2) × E-6	(10 ± 8) × E-6
12	(7 ± 7) × E-6	(3 ± 10) × E-6
13	(-2.2 ± 0.8) × E-5	(4 ± 8) × E-6
14	(-2.1 ± 0.6) × E-5	(-2.0 ± 0.7) × E-5
15	(1.241 ± 0.008) × E-3	(-1.24 ± 0.07) × E-4

