



S15-249

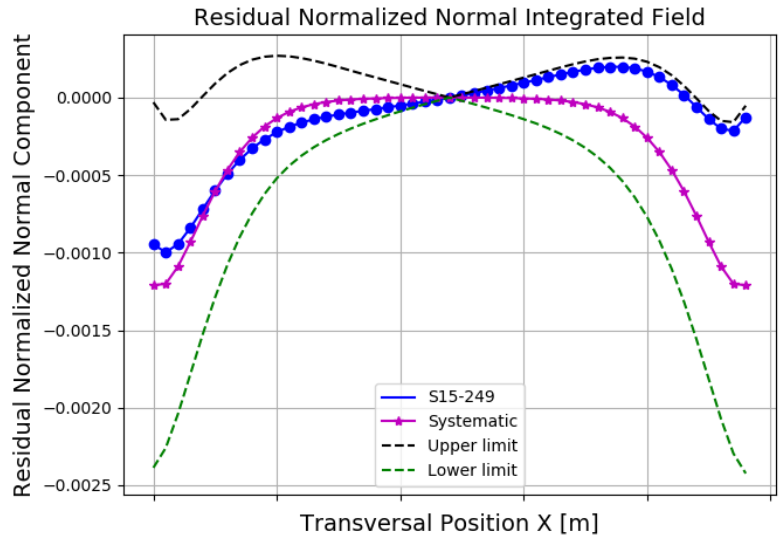
STORAGE RING MAGNET REPORT

Results

Date	16/07/2018
Hour	10:08:17
Temperature [°C]	23.516
Number of Measurements	9
Main Coil Current [A]	(167.7973 ± 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/m]	(-359.754 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(12.99 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.2 ± 0.2)
Roll [mrad] - (< ±0.3)	(-1.1 ± 0.1) × 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)	(-3.96 ± 0.10) × E-4	(-3.4 ± 0.4) × E-4
2 (quadrupole)	(-2.166 ± 0.009) × E-3	(-4.54 ± 0.04) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-3.2 ± 0.4) × E-4
4	(3.4 ± 0.2) × E-4	(-3.0 ± 0.3) × E-4
5	(1.7 ± 0.2) × E-4	(1.9 ± 0.2) × E-4
6	(6 ± 2) × E-5	(-3 ± 3) × E-5
7	(5 ± 2) × E-5	(-6 ± 2) × E-5
8	(7 ± 3) × E-5	(6 ± 3) × E-5
9	(-2.01 ± 0.02) × E-3	(5.2 ± 0.5) × E-4
10	(-2 ± 4) × E-5	(4 ± 4) × E-5
11	(4.86 ± 278.40) × E-7	(-4 ± 3) × E-5
12	(-9.3 ± 18.3) × E-6	(6.8 ± 28.3) × E-6
13	(-9.6 ± 28.8) × E-6	(2 ± 3) × E-5
14	(-2 ± 3) × E-5	(-6 ± 3) × E-5
15	(1.26 ± 0.05) × E-3	(6 ± 4) × E-5

