



S15-231

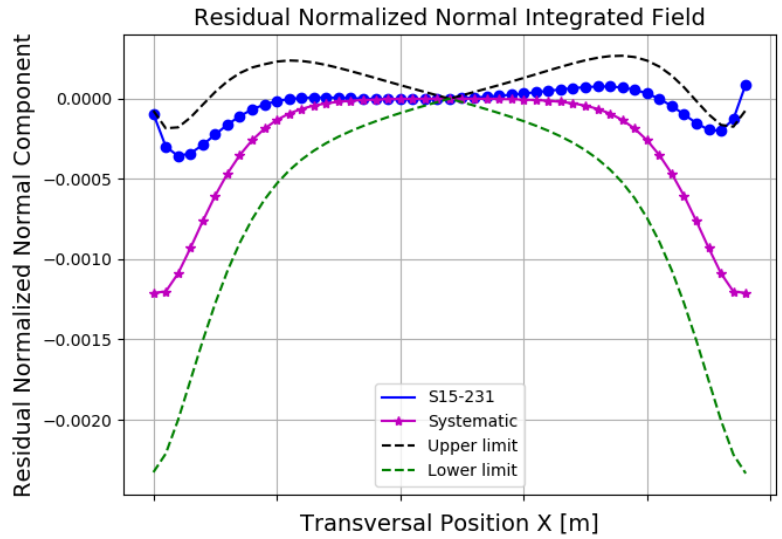
STORAGE RING MAGNET REPORT

Results

Date	26/07/2018
Hour	09:54:32
Temperature [°C]	23.582
Number of Measurements	9
Main Coil Current [A]	(167.7970 ± 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]	(-359.877 ± 0.006)
Magnet Center Offset X [μm] - (< ±40.0)	(8.1 ± 0.1)
Magnet Center Offset Y [μm] - (< ±40.0)	(30.7 ± 0.2)
Roll [mrad] - (< ±0.3)	(-1.4 ± 0.2) × 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)	(-4.32 ± 0.07) × E-4	(-1.2 ± 0.2) × E-4
2 (quadrupole)	(-1.35 ± 0.02) × E-3	(-5.12 ± 0.03) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-4.2 ± 0.6) × E-4
4	(7 ± 4) × E-5	(-1.2 ± 0.3) × E-4
5	(2.5 ± 0.4) × E-4	(4 ± 3) × E-5
6	(2 ± 3) × E-5	(-6 ± 3) × E-5
7	(1.1 ± 0.4) × E-4	(-1 ± 5) × E-5
8	(8.2 ± 73.5) × E-6	(2 ± 5) × E-5
9	(-1.84 ± 0.05) × E-3	(9.1 ± 0.8) × E-4
10	(6.3 ± 64.3) × E-6	(4.2 ± 35.7) × E-6
11	(4 ± 5) × E-5	(-2 ± 5) × E-5
12	(-1 ± 4) × E-5	(1 ± 6) × E-5
13	(-5.4 ± 48.9) × E-6	(2 ± 5) × E-5
14	(9.5 ± 69.3) × E-6	(-3 ± 6) × E-5
15	(1.44 ± 0.05) × E-3	(3 ± 4) × E-5

