



S15-039

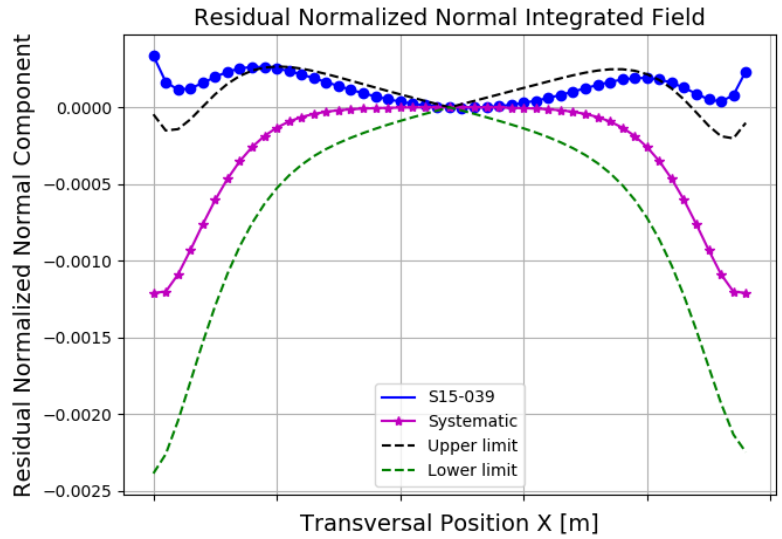
## STORAGE RING MAGNET REPORT

### Results

Date	13/08/2018
Hour	09:08:34
Temperature [°C]	23.317
Number of Measurements	9
Main Coil Current [A]	(167.801 ± 0.002)
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]	(-359.743 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(15.37 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(23.05 ± 0.02)
Roll [mrad] - (< ±0.3)	(1.28 ± 0.01) 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
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1 (dipole)	(4.68 ± 0.04) x E-4	(-3.89 ± 0.04) x E-4
2 (quadrupole)	(-2.562 ± 0.003) x E-3	(-3.841 ± 0.004) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(3.85 ± 0.03) x E-4
4	(-9.1 ± 0.4) x E-5	(-2.96 ± 0.04) x E-4
5	(7.90 ± 0.04) x E-4	(3.85 ± 0.05) x E-4
6	(9.4 ± 0.5) x E-5	(-3.2 ± 0.4) x E-5
7	(2.18 ± 0.04) x E-4	(-9.4 ± 0.2) x E-5
8	(-2.1 ± 0.4) x E-5	(6.2 ± 0.2) x E-5
9	(-2.004 ± 0.004) x E-3	(3.9 ± 0.4) x E-5
10	(-2 ± 4) x E-6	(1.0 ± 0.6) x E-5
11	(-2.0 ± 0.1) x E-5	(-1.8 ± 0.5) x E-5
12	(-1.3 ± 0.6) x E-5	(10 ± 6) x E-6
13	(-2.2 ± 0.5) x E-5	(2.4 ± 0.4) x E-5
14	(-1.8 ± 0.4) x E-5	(-4.9 ± 0.5) x E-5
15	(1.322 ± 0.005) x E-3	(3.0 ± 0.3) x E-5

