



# S15-112

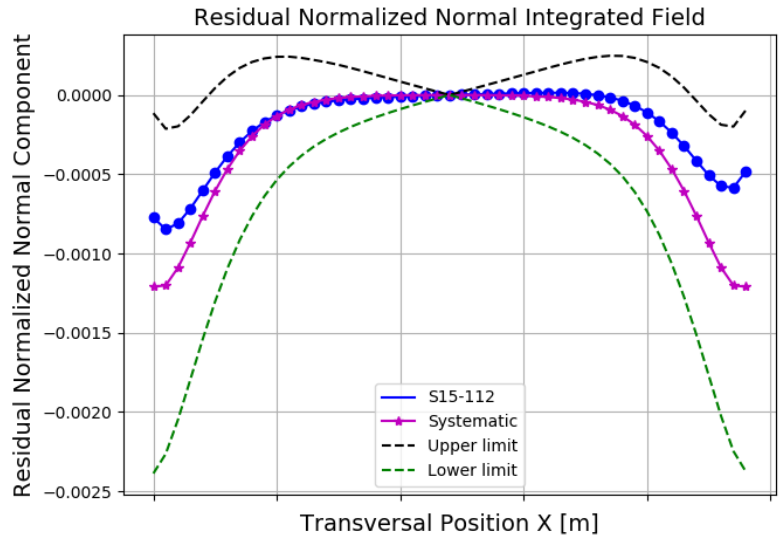
## STORAGE RING MAGNET REPORT

### Results

Date	05/07/2018
Hour	15:21:20
Temperature [°C]	23.601
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.001)
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]	(-359.819 ± 0.004)
Magnet Center Offset X [μm] - (< ±40.0)	(4.39 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(19.59 ± 0.07)
Roll [mrad] - (< ±0.3)	(1.45 ± 0.05) 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)	(-9.70 ± 0.06) x E-4	(4.5 ± 0.2) x E-4
2 (quadrupole)	(-7.33 ± 0.06) x E-4	(-3.27 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.4 ± 0.1) x E-4
4	(5.5 ± 0.9) x E-5	(-1.47 ± 0.10) x E-4
5	(-3.7 ± 0.6) x E-5	(-2.8 ± 13.3) x E-6
6	(5.9 ± 0.7) x E-5	(-5 ± 2) x E-5
7	(5 ± 1) x E-5	(-3.9 ± 0.9) x E-5
8	(2.5 ± 0.7) x E-5	(4 ± 1) x E-5
9	(-1.97 ± 0.01) x E-3	(2.4 ± 0.2) x E-4
10	(2.3 ± 0.6) x E-5	(1 ± 1) x E-5
11	(3.5 ± 1.0) x E-5	(2 ± 2) x E-5
12	(-7 ± 9) x E-6	(4 ± 1) x E-5
13	(-9.78 ± 135.65) x E-7	(2 ± 10) x E-6
14	(-8.6 ± 13.9) x E-6	(-3 ± 2) x E-5
15	(1.30 ± 0.01) x E-3	(-3 ± 2) x E-5

