



# S15-175

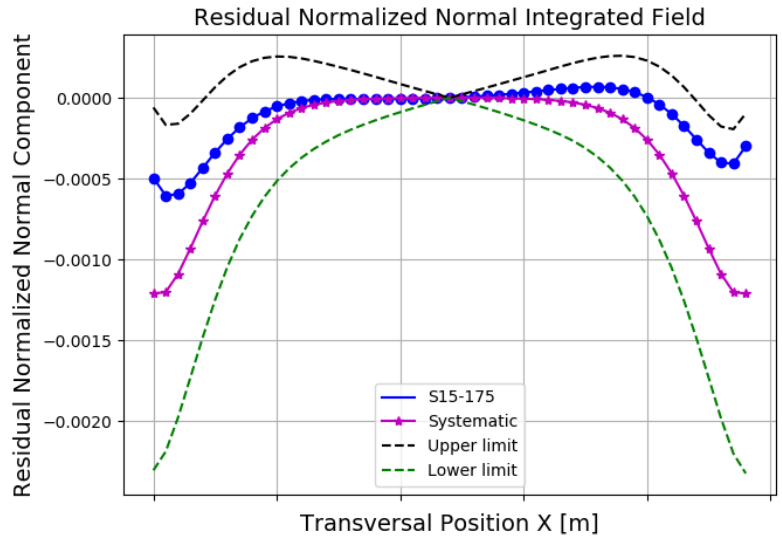
## STORAGE RING MAGNET REPORT

### Results

Date	07/08/2018
Hour	15:29:50
Temperature [°C]	23.535
Number of Measurements	9
Main Coil Current [A]	(167.797 ± 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]	(-360.004 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(15.83 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(25.36 ± 0.02)
Roll [mrad] - (< ±0.3)	(2.30 ± 0.02) 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> ]
1 (dipole)	(-6.71 ± 0.04) x E-4	(-5.09 ± 0.03) x E-4
2 (quadrupole)	(-2.638 ± 0.004) x E-3	(-4.227 ± 0.004) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(6.89 ± 0.05) x E-4
4	(7.7 ± 0.4) x E-5	(1.2 ± 0.7) x E-5
5	(1.98 ± 0.05) x E-4	(1.12 ± 0.06) x E-4
6	(4.4 ± 0.5) x E-5	(-3.4 ± 0.7) x E-5
7	(9.5 ± 0.6) x E-5	(-4.3 ± 0.5) x E-5
8	(8 ± 8) x E-6	(3.0 ± 0.6) x E-5
9	(-2.027 ± 0.007) x E-3	(2.4 ± 0.4) x E-5
10	(-2 ± 10) x E-6	(4 ± 4) x E-6
11	(1.3 ± 0.9) x E-5	(-1.2 ± 0.5) x E-5
12	(-4 ± 9) x E-6	(3 ± 5) x E-6
13	(-1.2 ± 0.9) x E-5	(1.7 ± 0.7) x E-5
14	(-2.5 ± 0.4) x E-5	(-4.8 ± 0.6) x E-5
15	(1.336 ± 0.003) x E-3	(3 ± 1) x E-5

