



# S15-131

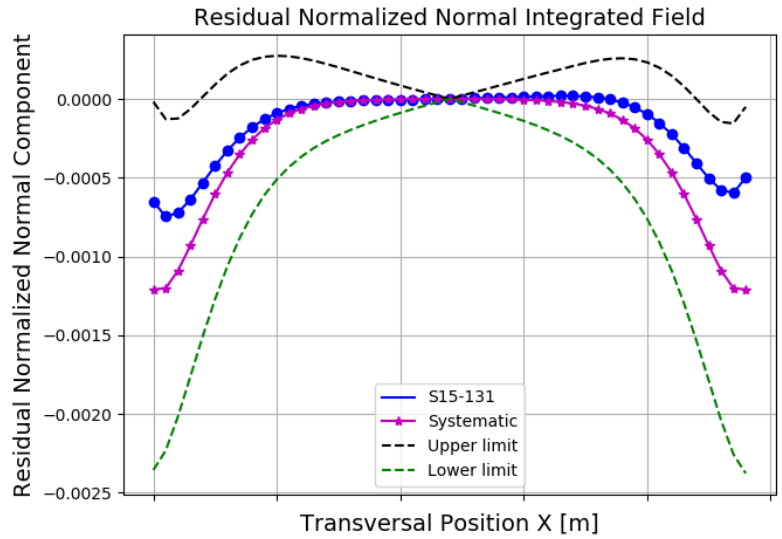
## STORAGE RING MAGNET REPORT

### Results

Date	14/08/2018
Hour	11:38:07
Temperature [°C]	23.477
Number of Measurements	9
Main Coil Current [A]	(167.7976 ± 0.0010)
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]	(-360.308 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(13.38 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(18.28 ± 0.03)
Roll [mrad] - (< ±0.3)	(1.01 ± 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)	(-9.61 ± 0.02) x E-4	(-1.23 ± 0.05) x E-4
2 (quadrupole)	(-2.231 ± 0.004) x E-3	(-3.047 ± 0.005) x E-3
3 (sextupole)	(1.000000 ± 0.000007)	(3.03 ± 0.06) x E-4
4	(4.2 ± 0.4) x E-5	(-2.5 ± 0.5) x E-5
5	(4.3 ± 0.2) x E-5	(-1.19 ± 0.08) x E-4
6	(4.2 ± 0.6) x E-5	(5 ± 5) x E-6
7	(4.6 ± 0.8) x E-5	(2.0 ± 0.6) x E-5
8	(1.3 ± 0.4) x E-5	(3.1 ± 0.5) x E-5
9	(-2.010 ± 0.004) x E-3	(1.26 ± 0.08) x E-4
10	(4 ± 3) x E-6	(-8.3 ± 61.9) x E-7
11	(9 ± 5) x E-6	(-2 ± 8) x E-6
12	(-2 ± 6) x E-6	(-1.5 ± 0.6) x E-5
13	(-1.2 ± 0.7) x E-5	(1.9 ± 0.5) x E-5
14	(-2.2 ± 0.6) x E-5	(-4.4 ± 0.7) x E-5
15	(1.347 ± 0.006) x E-3	(8 ± 5) x E-6

