



S15-032

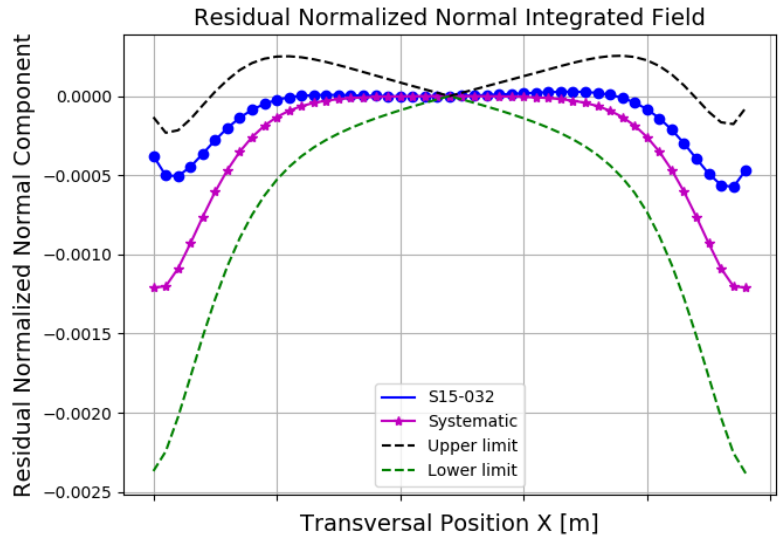
## STORAGE RING MAGNET REPORT

### Results

Date	15/08/2018
Hour	10:17:09
Temperature [°C]	23.387
Number of Measurements	9
Main Coil Current [A]	(167.7968 ± 0.0009)
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]	(-360.952 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(3.01 ± 0.08)
Magnet Center Offset Y [μm] - (< ±40.0)	(20.90 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.73 ± 0.06) 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)	(1.25 ± 0.08) x E-4	(7.1 ± 0.1) x E-4
2 (quadrupole)	(-5.0 ± 0.1) x E-4	(-3.48 ± 0.01) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(5.2 ± 0.2) x E-4
4	(4 ± 2) x E-5	(-8 ± 2) x E-5
5	(1.5 ± 0.2) x E-4	(-2.2 ± 0.2) x E-4
6	(-7 ± 2) x E-5	(-2 ± 1) x E-5
7	(5 ± 3) x E-5	(2 ± 2) x E-5
8	(-2 ± 2) x E-5	(6 ± 2) x E-5
9	(-1.981 ± 0.009) x E-3	(2.0 ± 0.2) x E-4
10	(5.0 ± 19.7) x E-6	(1.1 ± 21.0) x E-6
11	(5.0 ± 12.8) x E-6	(-9.9 ± 16.0) x E-6
12	(5.5 ± 19.0) x E-6	(7.7 ± 10.9) x E-6
13	(-2 ± 1) x E-5	(1 ± 2) x E-5
14	(-4.0 ± 11.1) x E-6	(-4.5 ± 0.9) x E-5
15	(1.367 ± 0.010) x E-3	(-3 ± 2) x E-5

