



# S15-017

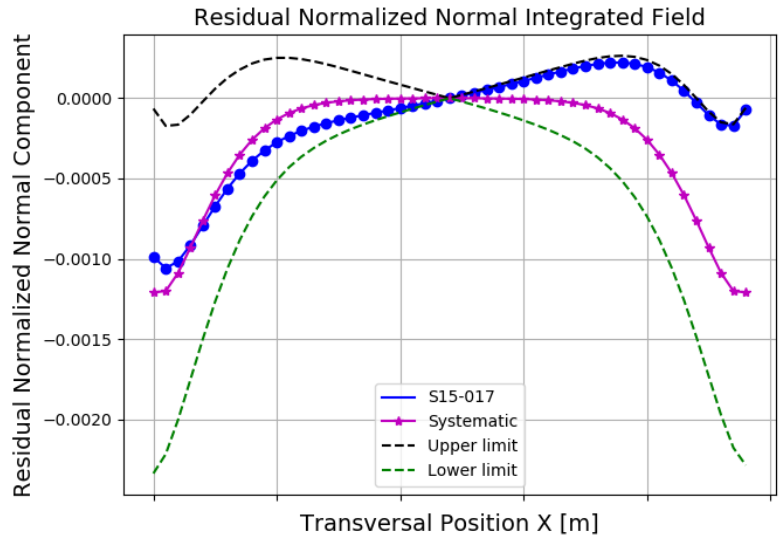
## STORAGE RING MAGNET REPORT

### Results

Date	17/08/2018
Hour	10:20:24
Temperature [°C]	23.608
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]	(-359.360 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(20.94 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(29.67 ± 0.07)
Roll [mrad] - (< ±0.3)	(2.31 ± 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)	(-5.73 ± 0.03) x E-4	(-1.0 ± 0.1) x E-4
2 (quadrupole)	(-3.490 ± 0.004) x E-3	(-4.94 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(6.9 ± 0.1) x E-4
4	(3.90 ± 0.07) x E-4	(2.4 ± 0.1) x E-4
5	(1.35 ± 0.07) x E-4	(-9 ± 1) x E-5
6	(1.0 ± 0.1) x E-4	(-3 ± 2) x E-5
7	(4.3 ± 0.9) x E-5	(3.9 ± 13.5) x E-6
8	(1.2 ± 0.8) x E-5	(4.4 ± 11.8) x E-6
9	(-2.00 ± 0.01) x E-3	(1.1 ± 0.1) x E-4
10	(1.2 ± 67.4) x E-7	(2.3 ± 0.9) x E-5
11	(-1.1 ± 1.0) x E-5	(-1 ± 1) x E-5
12	(-5.7 ± 12.4) x E-6	(-1 ± 10) x E-6
13	(-6 ± 9) x E-6	(6.1 ± 10.8) x E-6
14	(-4.1 ± 0.6) x E-5	(-3 ± 1) x E-5
15	(1.310 ± 0.008) x E-3	(6.9 ± 0.9) x E-5

