



# S15-045

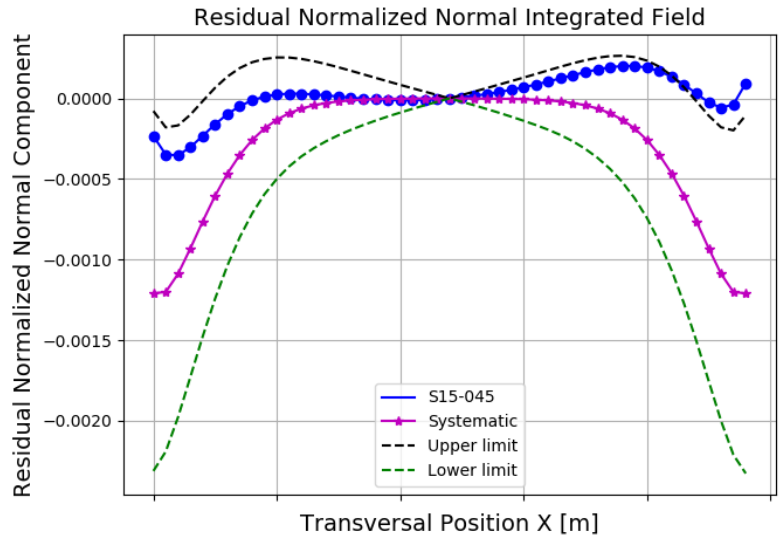
## STORAGE RING MAGNET REPORT

### Results

Date	29/06/2018
Hour	11:50:39
Temperature [°C]	24.058
Number of Measurements	9
Main Coil Current [A]	(167.7966 ± 0.0008)
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]	(-360.468 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(18.35 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(37.26 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.02 ± 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> ]
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1 (dipole)	(-4.92 ± 0.04) x E-4	(-2.4 ± 0.4) x E-5
2 (quadrupole)	(-3.058 ± 0.005) x E-3	(-6.210 ± 0.006) x E-3
3 (sextupole)	(1.000000 ± 0.000008)	(3.05 ± 0.06) x E-4
4	(1.51 ± 0.06) x E-4	(1.069 ± 0.010) x E-3
5	(4.95 ± 0.05) x E-4	(1.29 ± 0.09) x E-4
6	(-1 ± 7) x E-6	(8 ± 6) x E-6
7	(1.81 ± 0.07) x E-4	(-5.5 ± 0.7) x E-5
8	(4 ± 5) x E-6	(-9 ± 7) x E-6
9	(-1.99 ± 0.01) x E-3	(1.36 ± 0.09) x E-4
10	(2.0 ± 0.8) x E-5	(-5.4 ± 0.5) x E-5
11	(-2.7 ± 0.4) x E-5	(-8 ± 10) x E-6
12	(8 ± 7) x E-6	(-8.29 ± 883.47) x E-8
13	(-3.5 ± 0.7) x E-5	(2.2 ± 0.8) x E-5
14	(-1.7 ± 0.9) x E-5	(-2.3 ± 0.9) x E-5
15	(1.307 ± 0.007) x E-3	(-2.8 ± 0.9) x E-5

