



# S15-125

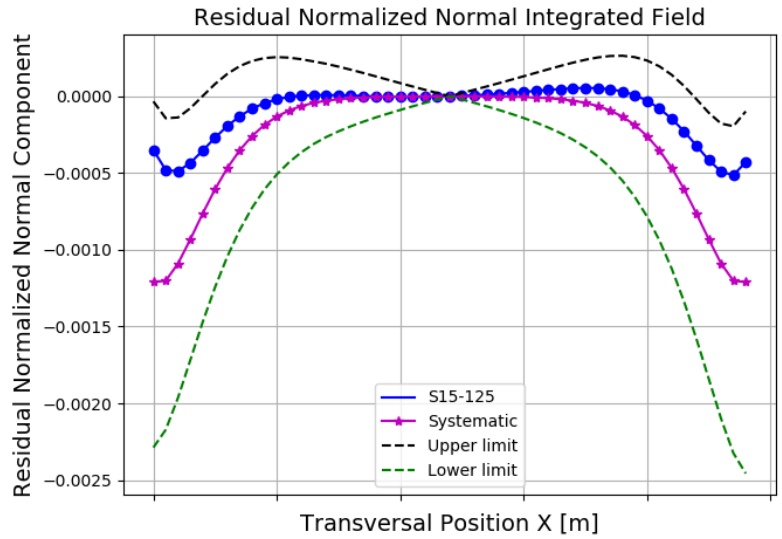
## STORAGE RING MAGNET REPORT

### Results

Date	01/08/2018
Hour	16:08:51
Temperature [°C]	23.628
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.001)
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]	(-359.644 ± 0.005)
Magnet Center Offset X [μm] - (< ±40.0)	(14.99 ± 0.07)
Magnet Center Offset Y [μm] - (< ±40.0)	(21.46 ± 0.05)
Roll [mrad] - (< ±0.3)	(2.59 ± 0.09) 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)	(-6.14 ± 0.04) x E-4	(6.7 ± 0.1) x E-4
2 (quadrupole)	(-2.50 ± 0.01) x E-3	(-3.577 ± 0.009) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(7.8 ± 0.3) x E-4
4	(6 ± 2) x E-5	(1.3 ± 0.1) x E-4
5	(2.3 ± 0.1) x E-4	(-2.0 ± 0.2) x E-4
6	(-5 ± 2) x E-5	(-6 ± 3) x E-5
7	(4 ± 2) x E-5	(-1 ± 2) x E-5
8	(2 ± 3) x E-5	(6.7 ± 18.4) x E-6
9	(-1.97 ± 0.04) x E-3	(5.3 ± 0.2) x E-4
10	(-4.9 ± 19.9) x E-6	(-2 ± 2) x E-5
11	(-2 ± 2) x E-5	(2 ± 1) x E-5
12	(-3 ± 2) x E-5	(2 ± 3) x E-5
13	(4.9 ± 25.5) x E-6	(2 ± 2) x E-5
14	(-3 ± 2) x E-5	(-2 ± 3) x E-5
15	(1.32 ± 0.02) x E-3	(-4 ± 3) x E-5

