



S15-118

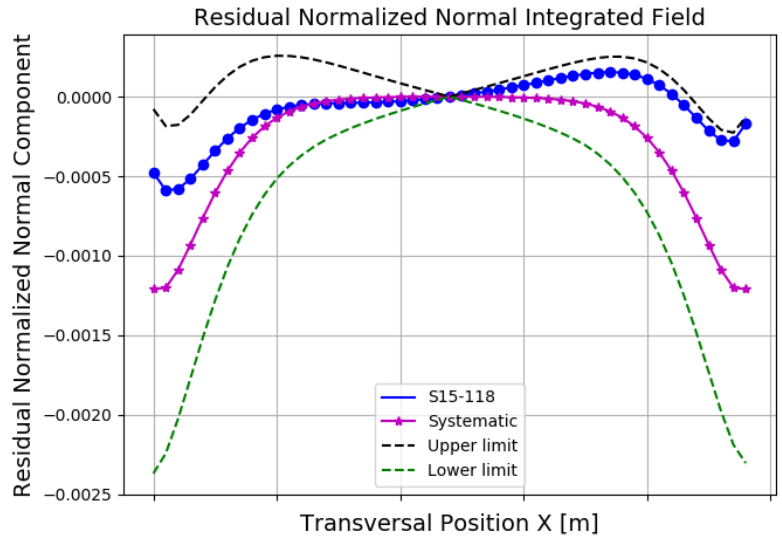
## STORAGE RING MAGNET REPORT

### Results

Date	09/08/2018
Hour	11:05:20
Temperature [°C]	23.62
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.003)
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]	(-360.152 ± 0.005)
Magnet Center Offset X [μm] - (< ±40.0)	(12.45 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(25.70 ± 0.03)
Roll [mrad] - (< ±0.3)	(-2.9 ± 0.2) × E-2

### 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)	(-4.28 ± 0.04) × E-4	(1.06 ± 0.06) × E-4
2 (quadrupole)	(-2.075 ± 0.005) × E-3	(-4.284 ± 0.006) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-8.6 ± 0.5) × E-5
4	(2.19 ± 0.03) × E-4	(-1.4 ± 0.7) × E-5
5	(3.00 ± 0.05) × E-4	(-2.10 ± 0.08) × E-4
6	(-6.0 ± 0.5) × E-5	(-2.2 ± 0.6) × E-5
7	(1.02 ± 0.08) × E-4	(2.4 ± 1.0) × E-5
8	(-2 ± 4) × E-6	(3.7 ± 0.6) × E-5
9	(-2.046 ± 0.005) × E-3	(5 ± 1) × E-5
10	(4 ± 7) × E-6	(-6 ± 7) × E-6
11	(-5 ± 7) × E-6	(-9 ± 6) × E-6
12	(3 ± 7) × E-6	(3 ± 8) × E-6
13	(-2.5 ± 0.8) × E-5	(9 ± 8) × E-6
14	(-1.0 ± 0.8) × E-5	(-3.4 ± 0.5) × E-5
15	(1.349 ± 0.003) × E-3	(2 ± 5) × E-6

