



# S15-072

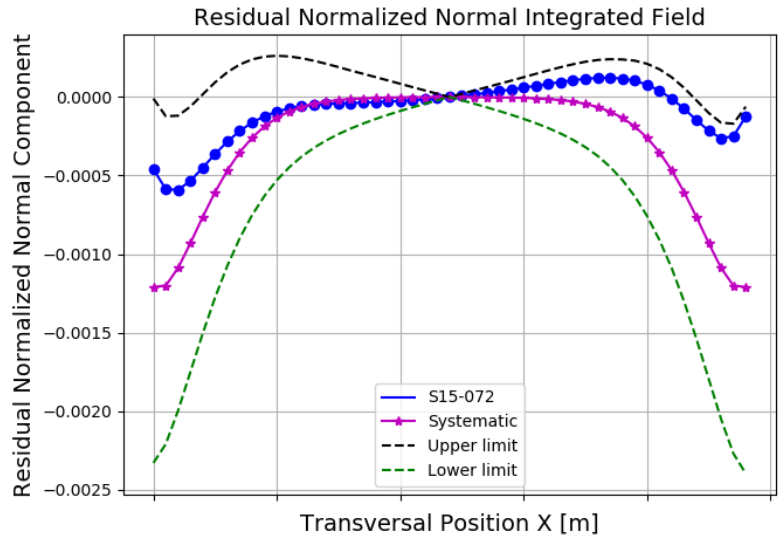
## STORAGE RING MAGNET REPORT

### Results

Date	09/08/2018
Hour	12:55:28
Temperature [°C]	23.587
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]	(-359.886 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(23.44 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(22.72 ± 0.03)
Roll [mrad] - (< ±0.3)	(2.70 ± 0.08) x 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> ]
1 (dipole)	(-3.01 ± 0.04) x E-4	(5.15 ± 0.04) x E-4
2 (quadrupole)	(-3.907 ± 0.004) x E-3	(-3.786 ± 0.005) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(8.1 ± 0.2) x E-5
4	(1.86 ± 0.02) x E-4	(-2.46 ± 0.05) x E-4
5	(2.20 ± 0.04) x E-4	(-1.58 ± 0.06) x E-4
6	(-2.9 ± 0.6) x E-5	(-1.2 ± 0.5) x E-5
7	(1.03 ± 0.05) x E-4	(6 ± 5) x E-6
8	(3.8 ± 0.5) x E-5	(3.7 ± 0.6) x E-5
9	(-1.941 ± 0.003) x E-3	(3.3 ± 0.5) x E-5
10	(1.6 ± 0.6) x E-5	(2.5 ± 0.5) x E-5
11	(10 ± 4) x E-6	(-2 ± 7) x E-6
12	(-1 ± 5) x E-6	(-5 ± 8) x E-6
13	(-1.7 ± 0.5) x E-5	(5 ± 4) x E-6
14	(-4.2 ± 0.6) x E-5	(-4.6 ± 0.5) x E-5
15	(1.333 ± 0.003) x E-3	(8 ± 4) x E-6

