



# S15-285

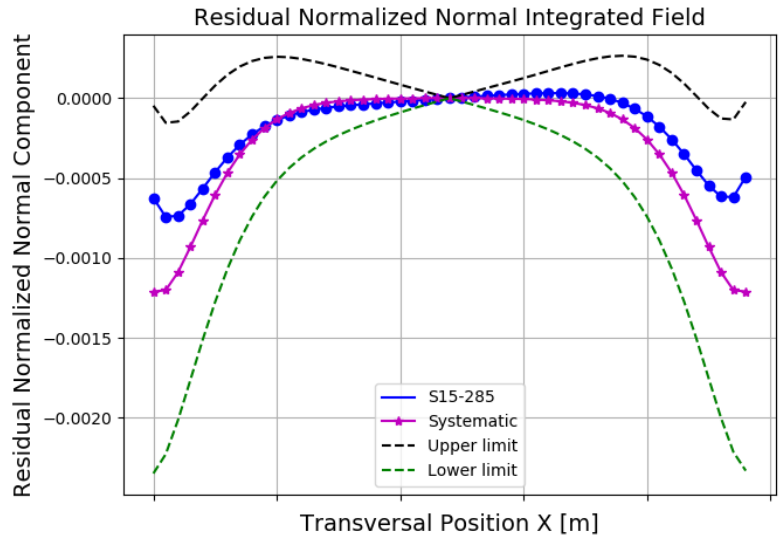
## STORAGE RING MAGNET REPORT

### Results

Date	19/07/2018
Hour	10:45:16
Temperature [°C]	23.675
Number of Measurements	9
Main Coil Current [A]	(167.7977 ± 0.0009)
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]	(-359.779 ± 0.005)
Magnet Center Offset X [μm] - (< ±40.0)	(8.94 ± 0.08)
Magnet Center Offset Y [μm] - (< ±40.0)	(21.2 ± 0.2)
Roll [mrad] - (< ±0.3)	(1.76 ± 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)	(-9.79 ± 0.09) x E-4	(9.8 ± 0.3) x E-4
2 (quadrupole)	(-1.49 ± 0.01) x E-3	(-3.53 ± 0.03) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(5.3 ± 0.3) x E-4
4	(1.3 ± 0.2) x E-4	(-9 ± 4) x E-5
5	(-4 ± 2) x E-5	(-1.1 ± 0.3) x E-4
6	(-1.0 ± 0.1) x E-4	(1 ± 5) x E-5
7	(3 ± 2) x E-5	(-4 ± 3) x E-5
8	(-3.1 ± 22.6) x E-6	(3 ± 2) x E-5
9	(-1.96 ± 0.03) x E-3	(4.1 ± 0.4) x E-4
10	(4 ± 2) x E-5	(-1 ± 2) x E-5
11	(1.8 ± 26.4) x E-6	(3 ± 2) x E-5
12	(4.5 ± 24.0) x E-6	(1.9 ± 17.8) x E-6
13	(-3 ± 2) x E-5	(3 ± 3) x E-5
14	(-1.2 ± 16.0) x E-6	(-3 ± 2) x E-5
15	(1.42 ± 0.02) x E-3	(-4 ± 3) x E-5

