



Q14-002

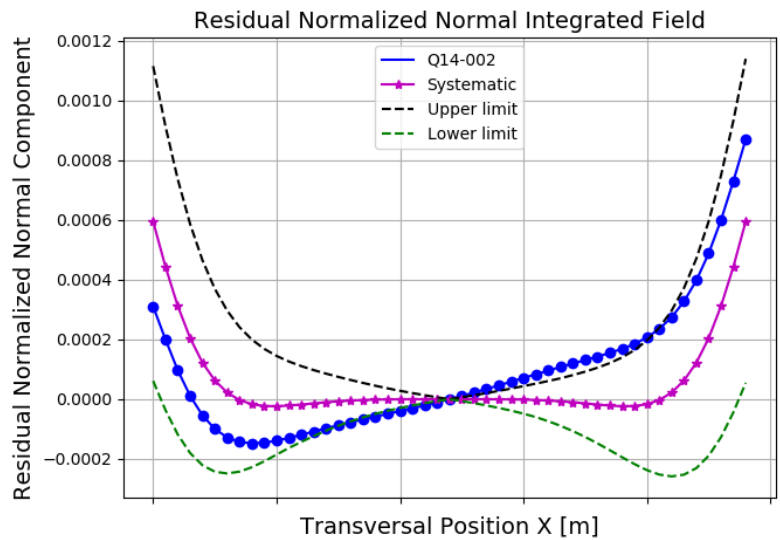
## STORAGE RING MAGNET REPORT

### Results

Date	09/04/2018
Hour	17:26:30
Temperature [°C]	23.8
Number of Measurements	9
Main Coil Current [A]	(147.997 ± 0.005)
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]	(-5.23677 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(1.63 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(14.5 ± 0.2)
Roll [mrad] - (< ±0.3)	(-3.51 ± 0.06) x E-1

### Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [mΩ]	30.3
Main Coil Number of Turns	20.0



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)	(-1.35 ± 0.03) x E-4	(-1.21 ± 0.01) x E-3
2 (quadrupole)	(1.000000 ± 0.000004)	(-7.0 ± 0.1) x E-4
3 (sextupole)	(2.58 ± 0.03) x E-4	(1.5 ± 0.1) x E-4
4	(1.28 ± 0.02) x E-4	(4.8 ± 13.3) x E-6
5	(1.2 ± 0.4) x E-5	(-2 ± 1) x E-5
6	(-4.13 ± 0.06) x E-4	(3 ± 1) x E-5
7	(1.7 ± 0.4) x E-5	(9 ± 9) x E-6
8	(-1.2 ± 0.5) x E-5	(-7.7 ± 90.4) x E-7
9	(-9 ± 7) x E-6	(-4 ± 6) x E-6
10	(1.544 ± 0.005) x E-3	(-1.2 ± 1.0) x E-5
11	(-9 ± 5) x E-6	(-1.0 ± 0.4) x E-5
12	(1.4 ± 0.9) x E-5	(5 ± 7) x E-6
13	(7 ± 7) x E-6	(4 ± 7) x E-6
14	(-6.70 ± 0.06) x E-4	(-6 ± 9) x E-6
15	(3 ± 9) x E-6	(1.0 ± 0.7) x E-5

