

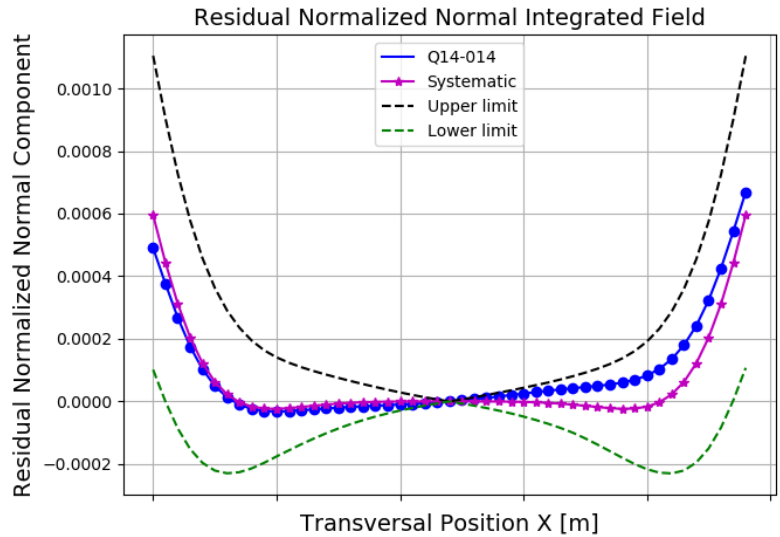


Q14-014

STORAGE RING MAGNET REPORT

Results

Date	10/04/2018
Hour	14:43:11
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(147.9967 ± 0.0008)
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]	(-5.23783 ± 0.00001)
Magnet Center Offset X [μm] - (< ±40.0)	(6.36 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(8.16 ± 0.06)
Roll [mrad] - (< ±0.3)	(-7.7 ± 0.3) x E-2
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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-5.30 ± 0.02) x E-4	(-6.80 ± 0.05) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-1.55 ± 0.05) x E-4
3 (sextupole)	(7.7 ± 0.2) x E-5	(-4.1 ± 0.5) x E-5
4	(1.16 ± 0.03) x E-4	(-1.9 ± 0.6) x E-5
5	(1 ± 3) x E-6	(1.1 ± 0.4) x E-5
6	(-3.84 ± 0.03) x E-4	(3.6 ± 0.4) x E-5
7	(1.1 ± 0.3) x E-5	(-2 ± 8) x E-6
8	(-1.2 ± 0.6) x E-5	(-3 ± 6) x E-6
9	(2 ± 6) x E-6	(-10 ± 4) x E-6
10	(1.532 ± 0.003) x E-3	(-6 ± 5) x E-6
11	(-1 ± 4) x E-6	(1 ± 6) x E-6
12	(3 ± 3) x E-6	(8 ± 6) x E-6
13	(2 ± 4) x E-6	(7 ± 4) x E-6
14	(-6.76 ± 0.04) x E-4	(-1.6 ± 0.4) x E-5
15	(-1 ± 3) x E-6	(7.6 ± 49.4) x E-7

