

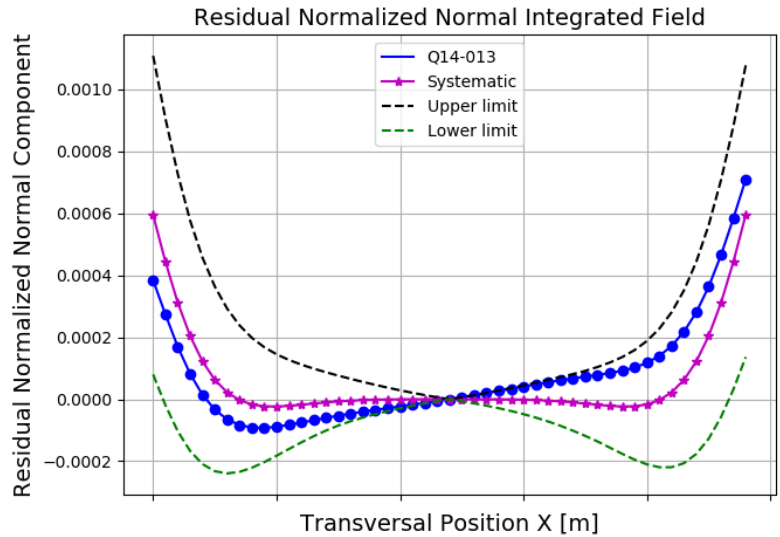


Q14-013

STORAGE RING MAGNET REPORT

Results

Date	11/04/2018
Hour	17:09:44
Temperature [°C]	23.9
Number of Measurements	9
Main Coil Current [A]	(147.9946 ± 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]	(-5.242460 ± 0.000010)
Magnet Center Offset X [μm] - (< ±40.0)	(1.57 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.88 ± 0.03)
Roll [mrad] - (< ±0.3)	(-4.24 ± 0.03) 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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-1.31 ± 0.03) x E-4	(-1.57 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-8.48 ± 0.07) x E-4
3 (sextupole)	(1.50 ± 0.04) x E-4	(5.1 ± 0.5) x E-5
4	(7.9 ± 0.7) x E-5	(-4.0 ± 0.2) x E-5
5	(1.6 ± 0.5) x E-5	(-1.7 ± 0.9) x E-5
6	(-3.84 ± 0.04) x E-4	(6 ± 1) x E-5
7	(-2 ± 6) x E-6	(-1.7 ± 0.9) x E-5
8	(-6 ± 8) x E-6	(-8 ± 5) x E-6
9	(-3 ± 7) x E-6	(1 ± 2) x E-5
10	(1.525 ± 0.006) x E-3	(-5 ± 2) x E-5
11	(3.5 ± 10.0) x E-6	(1.3 ± 0.8) x E-5
12	(2 ± 10) x E-6	(1.7 ± 0.5) x E-5
13	(5 ± 4) x E-6	(-2 ± 2) x E-5
14	(-6.69 ± 0.05) x E-4	(3 ± 1) x E-5
15	(-7 ± 9) x E-6	(-8 ± 9) x E-6

