

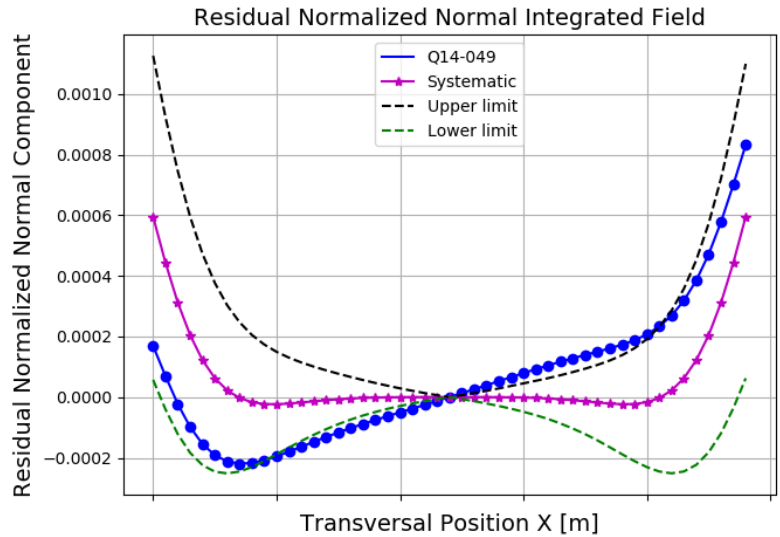


Q14-049

STORAGE RING MAGNET REPORT

Results

Date	24/04/2018
Hour	11:52:28
Temperature [°C]	23.5
Number of Measurements	9
Main Coil Current [A]	(147.997 ± 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]	(-5.23175 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(-12.13 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(-3.17 ± 0.09)
Roll [mrad] - (< ±0.3)	(-3.90 ± 0.04) × 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⁾]
1 (dipole)	(1.011 ± 0.004) × E-3	(2.65 ± 0.07) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(-7.80 ± 0.08) × E-4
3 (sextupole)	(3.08 ± 0.02) × E-4	(2.5 ± 0.7) × E-5
4	(5.7 ± 0.2) × E-5	(-4.3 ± 0.7) × E-5
5	(2.3 ± 0.4) × E-5	(-3 ± 4) × E-6
6	(-4.33 ± 0.04) × E-4	(4.6 ± 0.7) × E-5
7	(-3 ± 4) × E-6	(5.5 ± 57.8) × E-7
8	(-4 ± 4) × E-6	(-6 ± 5) × E-6
9	(4 ± 3) × E-6	(-8.13 ± 660.65) × E-8
10	(1.549 ± 0.003) × E-3	(-3.2 ± 0.6) × E-5
11	(-1.6 ± 33.8) × E-7	(4 ± 8) × E-6
12	(8 ± 6) × E-6	(6.1 ± 10.2) × E-6
13	(1 ± 6) × E-6	(4.5 ± 51.4) × E-7
14	(-6.77 ± 0.07) × E-4	(7 ± 9) × E-6
15	(-2 ± 7) × E-6	(-3 ± 5) × E-6

