

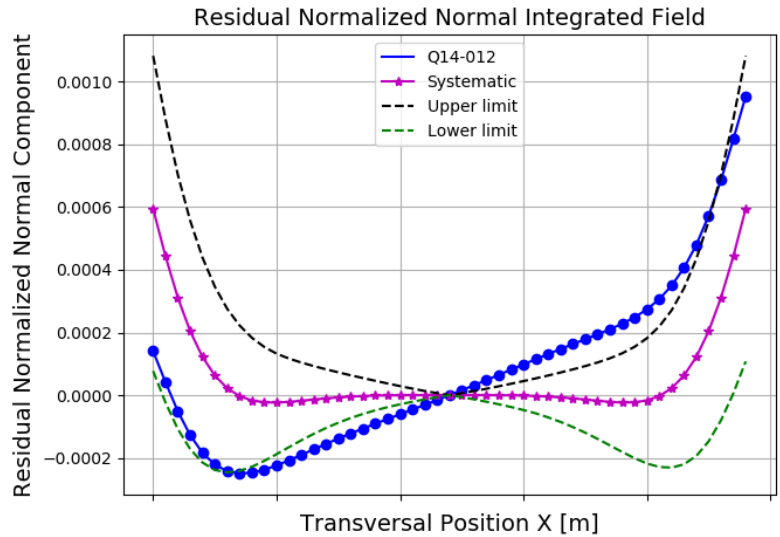


Q14-012

STORAGE RING MAGNET REPORT

Results

Date	10/04/2018
Hour	16:44:36
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9961 ± 0.0002)
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]	(-5.23698 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(-3.91 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(2.50 ± 0.04)
Roll [mrad] - (< ±0.3)	(-4.30 ± 0.02) 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⁾]
1 (dipole)	(3.26 ± 0.02) x E-4	(-2.08 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-8.60 ± 0.04) x E-4
3 (sextupole)	(3.77 ± 0.03) x E-4	(1.07 ± 0.03) x E-4
4	(8.2 ± 0.3) x E-5	(-4.7 ± 0.3) x E-5
5	(3.1 ± 0.2) x E-5	(-2.6 ± 0.2) x E-5
6	(-3.90 ± 0.04) x E-4	(3.3 ± 0.3) x E-5
7	(4 ± 4) x E-6	(1 ± 5) x E-6
8	(-5 ± 3) x E-6	(-8 ± 4) x E-6
9	(-6.1 ± 53.4) x E-7	(2 ± 3) x E-6
10	(1.529 ± 0.004) x E-3	(-1.3 ± 0.4) x E-5
11	(-8 ± 3) x E-6	(2 ± 4) x E-6
12	(6 ± 3) x E-6	(1.2 ± 0.4) x E-5
13	(-2.2 ± 45.5) x E-7	(3 ± 4) x E-6
14	(-6.75 ± 0.04) x E-4	(-6 ± 5) x E-6
15	(5 ± 6) x E-6	(-1.4 ± 35.6) x E-7

