

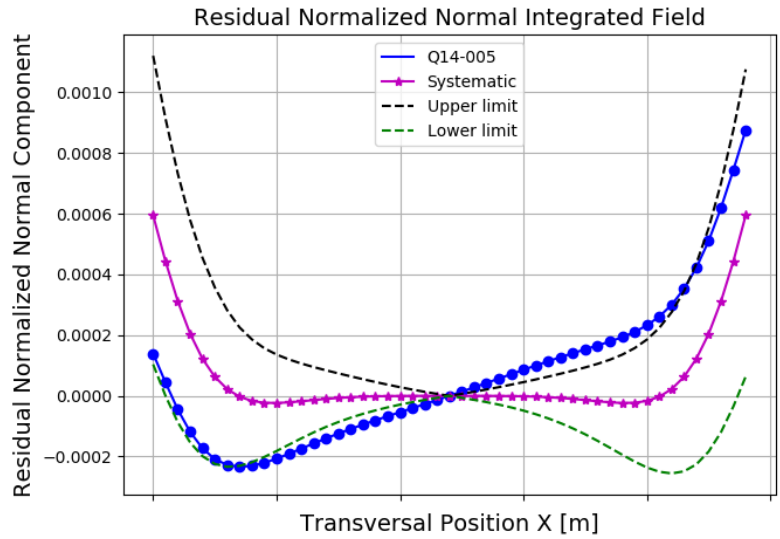


Q14-005

## STORAGE RING MAGNET REPORT

### Results

Date	05/04/2018
Hour	09:30:40
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(147.9957 ± 0.0005)
Integrated Gradient [T]	(-5.23583 ± 0.00001)
Magnet Center Offset X [μm] - (< ±40.0)	(-7.29 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.5 ± 0.4) × E-1
Roll [mrad] - (< ±0.3)	(-6.43 ± 0.02) × 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> ]
1 (dipole)	(6.07 ± 0.04) × E-4	(-3.7 ± 0.4) × E-5
2 (quadrupole)	(1.000000 ± 0.000003)	(-1.285 ± 0.004) × E-3
3 (sextupole)	(3.31 ± 0.02) × E-4	(6.0 ± 0.3) × E-5
4	(6.6 ± 0.4) × E-5	(-3.1 ± 0.4) × E-5
5	(3.5 ± 0.2) × E-5	(-1.1 ± 0.4) × E-5
6	(-4.22 ± 0.03) × E-4	(1.9 ± 0.4) × E-5
7	(4 ± 3) × E-6	(1.5 ± 0.5) × E-5
8	(-5 ± 4) × E-6	(-1.1 ± 0.3) × E-5
9	(2 ± 3) × E-6	(6 ± 5) × E-6
10	(1.546 ± 0.006) × E-3	(-1.3 ± 0.5) × E-5
11	(-3 ± 5) × E-6	(-6 ± 4) × E-6
12	(4 ± 5) × E-6	(1.0 ± 0.4) × E-5
13	(-1 ± 4) × E-6	(-5 ± 3) × E-6
14	(-6.82 ± 0.04) × E-4	(-7 ± 5) × E-6
15	(5.4 ± 32.1) × E-7	(3 ± 4) × E-6

