



# Q14-023

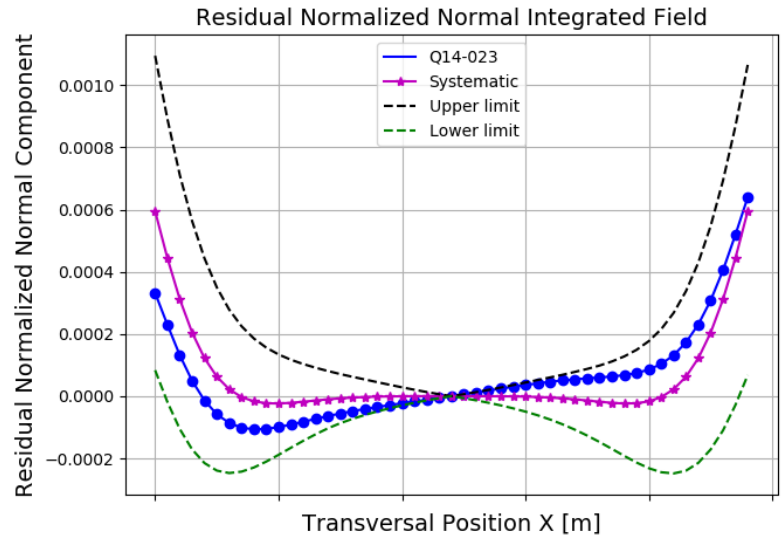
## STORAGE RING MAGNET REPORT

### Results

Date	09/04/2018
Hour	12:46:42
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.997 ± 0.002)
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]	(-5.234811 ± 0.000009)
Magnet Center Offset X [μm] - (< ±40.0)	(8.87 ± 0.07)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.3 ± 0.1)
Roll [mrad] - (< ±0.3)	(-3.64 ± 0.05) 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-7.39 ± 0.06) x E-4	(-1.11 ± 0.08) x E-4
2 (quadrupole)	(1.000000 ± 0.000002)	(-7.29 ± 0.10) x E-4
3 (sextupole)	(1.41 ± 0.03) x E-4	(1.37 ± 0.08) x E-4
4	(3.5 ± 0.3) x E-5	(-7.9 ± 11.6) x E-6
5	(5 ± 7) x E-6	(-9 ± 9) x E-6
6	(-4.10 ± 0.07) x E-4	(3.8 ± 0.7) x E-5
7	(6 ± 7) x E-6	(-7.1 ± 12.6) x E-6
8	(5 ± 5) x E-6	(-1 ± 8) x E-6
9	(2 ± 6) x E-6	(-1.71 ± 118.14) x E-7
10	(1.53 ± 0.01) x E-3	(-10 ± 8) x E-6
11	(-8.5 ± 11.7) x E-6	(8.7 ± 61.3) x E-7
12	(-4 ± 9) x E-6	(2.0 ± 12.1) x E-6
13	(2 ± 7) x E-6	(4 ± 6) x E-6
14	(-6.73 ± 0.05) x E-4	(-1 ± 1) x E-5
15	(7 ± 6) x E-6	(3 ± 8) x E-6

