



# Q14-011

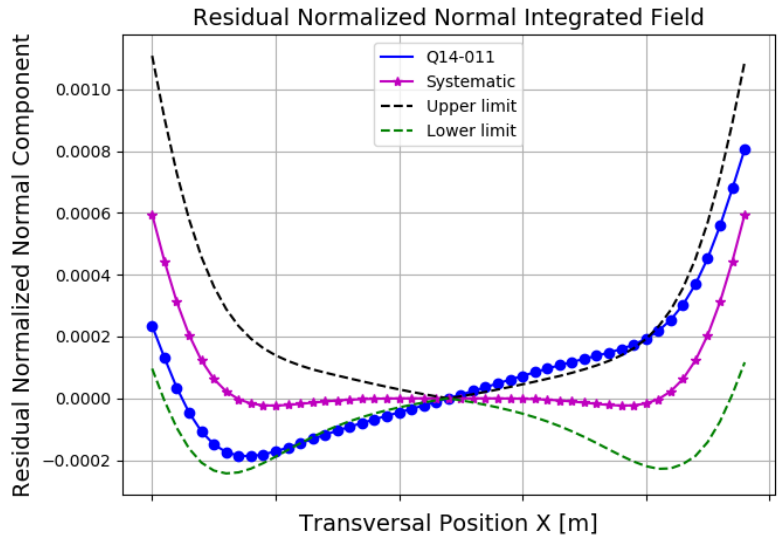
## STORAGE RING MAGNET REPORT

### Results

Date	06/04/2018
Hour	15:49:04
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	$(147.9951 \pm 0.0004)$
Trim Coil Current [A]	$(0 \pm 0)$
CH Coil Current [A]	$(0 \pm 0)$
CV Coil Current [A]	$(0 \pm 0)$
QS Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-5.23769 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 40.0$ )	$(7.0 \pm 68.3) \times E-3$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 40.0$ )	$(-7.0 \pm 0.3) \times E-1$
Roll [mrad] - ( $< \pm 0.3$ )	$(-3.45 \pm 0.02) \times E-1$

### Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [ $\text{m}\Omega$ ]	30.3
Main Coil Number of Turns	20.0



n	Normalized Normal Multipoles $x=12.0 \text{ mm}$ [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m <sup>(2-n)</sup> ]
1 (dipole)	$(-5.5 \pm 56.9) \times E-7$	$(5.9 \pm 0.3) \times E-5$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-6.89 \pm 0.03) \times E-4$
3 (sextupole)	$(2.81 \pm 0.02) \times E-4$	$(6.1 \pm 0.3) \times E-5$
4	$(6.0 \pm 0.2) \times E-5$	$(-2.9 \pm 0.2) \times E-5$
5	$(1.1 \pm 0.2) \times E-5$	$(-3.2 \pm 0.3) \times E-5$
6	$(-3.98 \pm 0.02) \times E-4$	$(1.3 \pm 0.3) \times E-5$
7	$(-5 \pm 2) \times E-6$	$(-5.08 \pm 217.82) \times E-8$
8	$(-3.8 \pm 27.1) \times E-7$	$(-6 \pm 3) \times E-6$
9	$(-1 \pm 3) \times E-6$	$(6 \pm 3) \times E-6$
10	$(1.532 \pm 0.003) \times E-3$	$(1 \pm 4) \times E-6$
11	$(-1 \pm 4) \times E-6$	$(3 \pm 4) \times E-6$
12	$(1 \pm 3) \times E-6$	$(1.1 \pm 0.4) \times E-5$
13	$(2 \pm 4) \times E-6$	$(5.3 \pm 36.0) \times E-7$
14	$(-6.74 \pm 0.04) \times E-4$	$(-1.4 \pm 0.3) \times E-5$
15	$(-2.2 \pm 25.3) \times E-7$	$(-3 \pm 2) \times E-6$

