



Q14-073

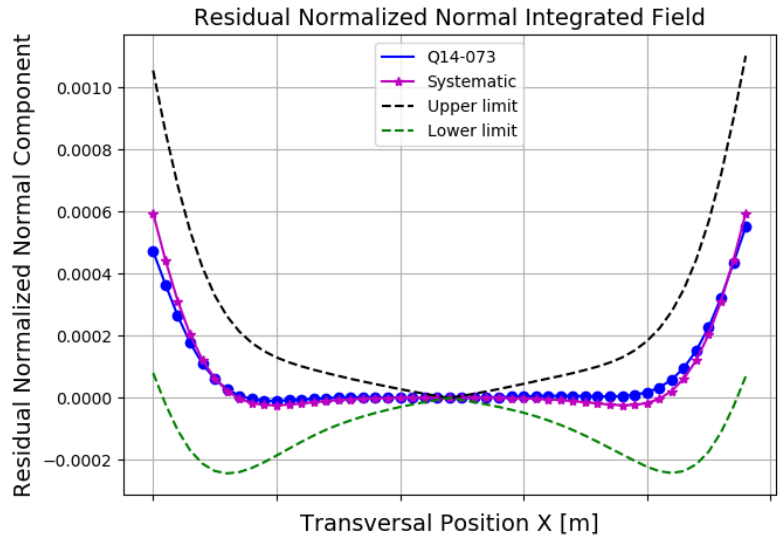
STORAGE RING MAGNET REPORT

Results

Date	10/04/2018
Hour	11:12:40
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9960 ± 0.0003)
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]	(-5.23841 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(5.24 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(12.74 ± 0.08)
Roll [mrad] - ($< \pm 0.3$)	$(-4.48 \pm 0.02) \times E-1$

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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(-4.36 \pm 0.03) \times E-4$	$(-1.062 \pm 0.007) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-8.97 \pm 0.04) \times E-4$
3 (sextupole)	$(5 \pm 3) \times E-6$	$(3.70 \pm 0.04) \times E-4$
4	$(8.4 \pm 0.3) \times E-5$	$(-7.6 \pm 0.3) \times E-5$
5	$(1.9 \pm 0.3) \times E-5$	$(-1.6 \pm 0.5) \times E-5$
6	$(-4.28 \pm 0.03) \times E-4$	$(4.1 \pm 0.4) \times E-5$
7	$(1.9 \pm 0.2) \times E-5$	$(-2.6 \pm 0.5) \times E-5$
8	$(-7 \pm 4) \times E-6$	$(1 \pm 4) \times E-6$
9	$(5.1 \pm 29.4) \times E-7$	$(-10 \pm 3) \times E-6$
10	$(1.536 \pm 0.002) \times E-3$	$(-1.8 \pm 0.2) \times E-5$
11	$(-7 \pm 2) \times E-6$	$(6 \pm 3) \times E-6$
12	$(3 \pm 4) \times E-6$	$(7 \pm 3) \times E-6$
13	$(3.2 \pm 32.3) \times E-7$	$(8 \pm 3) \times E-6$
14	$(-6.76 \pm 0.05) \times E-4$	$(-9 \pm 3) \times E-6$
15	$(3 \pm 2) \times E-6$	$(-3 \pm 4) \times E-6$

