



Q14-026

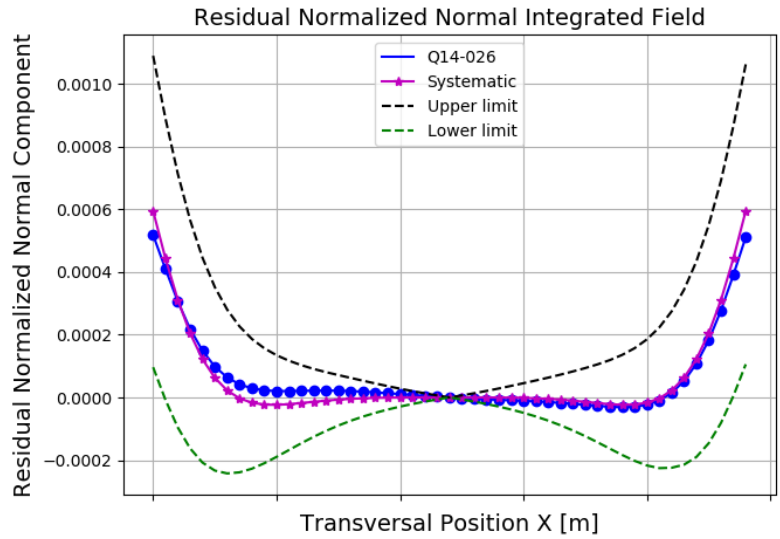
STORAGE RING MAGNET REPORT

Results

Date	26/04/2018
Hour	10:08:08
Temperature [°C]	23.41
Number of Measurements	9
Main Coil Current [A]	(147.996 ± 0.001)
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]	(-5.23621 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-3.29 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	$(6 \pm 1) \times E-1$
Roll [mrad] - ($< \pm 0.3$)	$(-4.27 \pm 0.04) \times E-1$

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)	$(2.74 \pm 0.04) \times E-4$	$(-5 \pm 1) \times E-5$
2 (quadrupole)	(1.000000 ± 0.000005)	$(-8.53 \pm 0.08) \times E-4$
3 (sextupole)	$(-5.6 \pm 0.3) \times E-5$	$(8.1 \pm 0.8) \times E-5$
4	$(7.0 \pm 0.4) \times E-5$	$(6 \pm 8) \times E-6$
5	$(2.6 \pm 0.4) \times E-5$	$(3.8 \pm 0.9) \times E-5$
6	$(-4.21 \pm 0.05) \times E-4$	$(7.2 \pm 0.8) \times E-5$
7	$(2.4 \pm 0.5) \times E-5$	$(9.8 \pm 95.7) \times E-7$
8	$(-2 \pm 4) \times E-6$	$(-6 \pm 7) \times E-6$
9	$(1.0 \pm 0.9) \times E-5$	$(-9 \pm 8) \times E-6$
10	$(1.541 \pm 0.006) \times E-3$	$(-4.8 \pm 0.6) \times E-5$
11	$(-10 \pm 5) \times E-6$	$(-2 \pm 5) \times E-6$
12	$(3.6 \pm 43.5) \times E-7$	$(1.1 \pm 0.6) \times E-5$
13	$(-2 \pm 5) \times E-6$	$(7 \pm 7) \times E-6$
14	$(-6.74 \pm 0.07) \times E-4$	$(1 \pm 1) \times E-5$
15	$(4 \pm 6) \times E-6$	$(9.6 \pm 62.0) \times E-7$

