

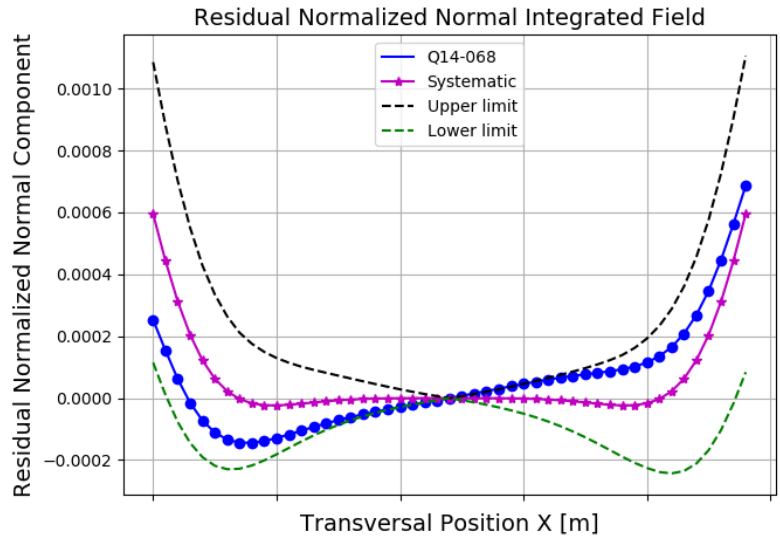


Q14-068

STORAGE RING MAGNET REPORT

Results

Date	06/04/2018
Hour	15:00:27
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(147.9952 ± 0.0006)
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]	(-5.24252 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(2.84 ± 0.02)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(6.61 ± 0.05)
Roll [mrad] - ($< \pm 0.3$)	$(-2.93 \pm 0.02) \times E-1$
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⁾]
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1 (dipole)	$(-2.37 \pm 0.02) \times E-4$	$(-5.51 \pm 0.04) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-5.87 \pm 0.03) \times E-4$
3 (sextupole)	$(1.78 \pm 0.03) \times E-4$	$(8.5 \pm 0.4) \times E-5$
4	$(4.1 \pm 0.3) \times E-5$	$(-1.7 \pm 0.3) \times E-5$
5	$(3.2 \pm 0.3) \times E-5$	$(4 \pm 4) \times E-6$
6	$(-4.43 \pm 0.04) \times E-4$	$(1.1 \pm 0.3) \times E-5$
7	$(1.7 \pm 0.5) \times E-5$	$(-1.1 \pm 0.3) \times E-5$
8	$(5.75 \pm 466.29) \times E-8$	$(-1.1 \pm 0.2) \times E-5$
9	$(-8 \pm 2) \times E-6$	$(-1.1 \pm 0.4) \times E-5$
10	$(1.538 \pm 0.004) \times E-3$	$(-2 \pm 3) \times E-6$
11	$(-8 \pm 3) \times E-6$	$(5 \pm 4) \times E-6$
12	$(5 \pm 4) \times E-6$	$(1.6 \pm 0.4) \times E-5$
13	$(3 \pm 5) \times E-6$	$(10 \pm 3) \times E-6$
14	$(-6.71 \pm 0.03) \times E-4$	$(-1.1 \pm 0.3) \times E-5$
15	$(3 \pm 4) \times E-6$	$(-4 \pm 4) \times E-6$

