



Q14-062

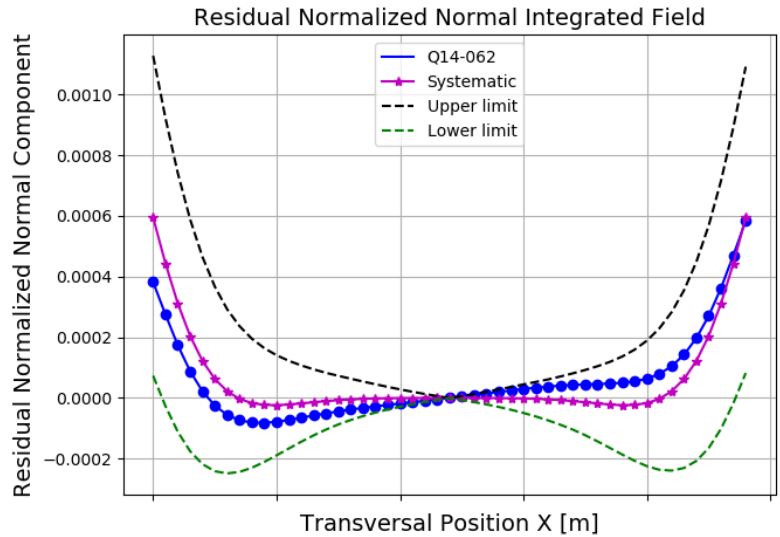
STORAGE RING MAGNET REPORT

Results

Date	07/04/2018
Hour	10:38:32
Temperature [°C]	23.5
Number of Measurements	9
Main Coil Current [A]	(147.9953 ± 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]	(-5.24143 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(5.73 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(5.48 ± 0.05)
Roll [mrad] - ($< \pm 0.3$)	$(-4.66 \pm 0.02) \times E-1$

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)	$(-4.78 \pm 0.03) \times E-4$	$(-4.56 \pm 0.04) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-9.32 \pm 0.04) \times E-4$
3 (sextupole)	$(1.15 \pm 0.03) \times E-4$	$(1.26 \pm 0.02) \times E-4$
4	$(4.3 \pm 0.3) \times E-5$	$(-4.1 \pm 0.4) \times E-5$
5	$(-1.7 \pm 0.4) \times E-5$	$(-2.4 \pm 0.3) \times E-5$
6	$(-4.17 \pm 0.03) \times E-4$	$(4.8 \pm 0.4) \times E-5$
7	$(5 \pm 4) \times E-6$	$(-4 \pm 3) \times E-6$
8	$(9.06 \pm 326.18) \times E-8$	$(-1.2 \pm 0.4) \times E-5$
9	$(-1 \pm 3) \times E-6$	$(4 \pm 3) \times E-6$
10	$(1.535 \pm 0.005) \times E-3$	$(-2.4 \pm 0.4) \times E-5$
11	$(-4 \pm 5) \times E-6$	$(-5 \pm 2) \times E-6$
12	$(-1 \pm 5) \times E-6$	$(9 \pm 5) \times E-6$
13	$(1 \pm 4) \times E-6$	$(-9.3 \pm 48.9) \times E-7$
14	$(-6.77 \pm 0.04) \times E-4$	$(-2 \pm 3) \times E-6$
15	$(1 \pm 5) \times E-6$	$(5 \pm 2) \times E-6$

