



Q14-055

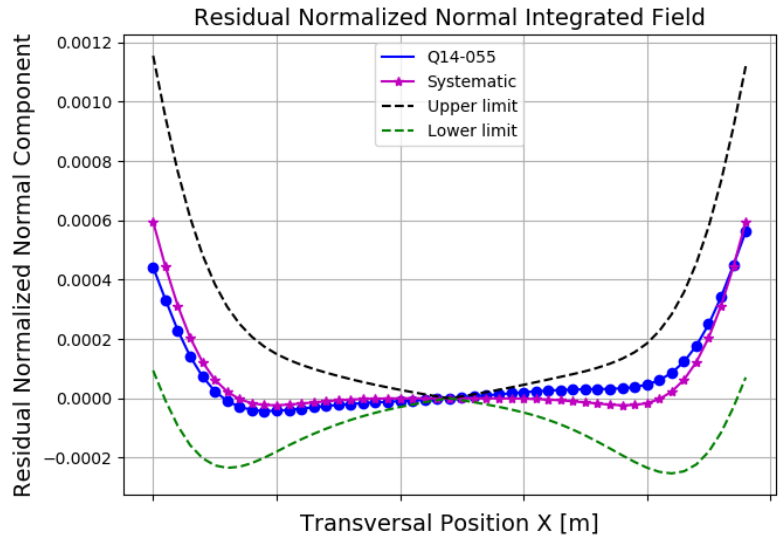
STORAGE RING MAGNET REPORT

Results

Date	12/04/2018
Hour	09:54:57
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9955 ± 0.0005)
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]	(-5.23518 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(3.95 ± 0.06)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(1.71 ± 0.06)
Roll [mrad] - ($< \pm 0.3$)	$(-3.35 \pm 0.02) \times E-1$

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)	$(-3.29 \pm 0.05) \times E-4$	$(-1.42 \pm 0.05) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000006)	$(-6.69 \pm 0.03) \times E-4$
3 (sextupole)	$(6.9 \pm 0.3) \times E-5$	$(1.26 \pm 0.03) \times E-4$
4	$(7.7 \pm 0.4) \times E-5$	$(-6 \pm 3) \times E-6$
5	$(-1.7 \pm 0.3) \times E-5$	$(-1 \pm 3) \times E-6$
6	$(-4.29 \pm 0.04) \times E-4$	$(3.9 \pm 0.3) \times E-5$
7	$(1.1 \pm 0.2) \times E-5$	$(-5 \pm 4) \times E-6$
8	$(-5 \pm 2) \times E-6$	$(-5 \pm 4) \times E-6$
9	$(4.0 \pm 33.9) \times E-7$	$(-8 \pm 4) \times E-6$
10	$(1.528 \pm 0.004) \times E-3$	$(-1.5 \pm 0.3) \times E-5$
11	$(-4 \pm 3) \times E-6$	$(-1 \pm 5) \times E-6$
12	$(3 \pm 3) \times E-6$	$(7 \pm 4) \times E-6$
13	$(2 \pm 5) \times E-6$	$(4 \pm 3) \times E-6$
14	$(-6.71 \pm 0.03) \times E-4$	$(-6 \pm 4) \times E-6$
15	$(-2 \pm 2) \times E-6$	$(3 \pm 3) \times E-6$

