



Q14-021

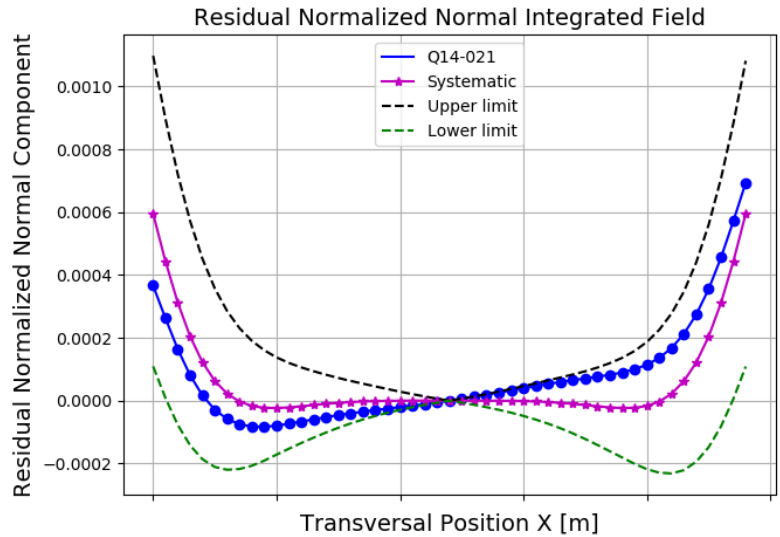
STORAGE RING MAGNET REPORT

Results

Date	07/04/2018
Hour	12:38:13
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(147.9951 ± 0.0004)
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]	(-5.240210 ± 0.000009)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	$(-8.5 \pm 0.4) \times E-1$
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(9.30 ± 0.03)
Roll [mrad] - ($< \pm 0.3$)	$(-2.88 \pm 0.02) \times E-1$

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)	$(7.1 \pm 0.3) \times E-5$	$(-7.75 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-5.76 \pm 0.04) \times E-4$
3 (sextupole)	$(1.38 \pm 0.04) \times E-4$	$(2.95 \pm 0.04) \times E-4$
4	$(1.03 \pm 0.02) \times E-4$	$(3.2 \pm 0.3) \times E-5$
5	$(1.9 \pm 0.2) \times E-5$	$(-3.3 \pm 0.4) \times E-5$
6	$(-4.23 \pm 0.04) \times E-4$	$(3.6 \pm 0.4) \times E-5$
7	$(6 \pm 3) \times E-6$	$(-1.8 \pm 0.5) \times E-5$
8	$(-4 \pm 5) \times E-6$	$(-1.1 \pm 0.3) \times E-5$
9	$(5 \pm 4) \times E-6$	$(-4 \pm 6) \times E-6$
10	$(1.527 \pm 0.003) \times E-3$	$(-10 \pm 4) \times E-6$
11	$(5.1 \pm 30.0) \times E-7$	$(10 \pm 3) \times E-6$
12	$(6.7 \pm 54.0) \times E-7$	$(3 \pm 5) \times E-6$
13	$(-2 \pm 4) \times E-6$	$(5 \pm 4) \times E-6$
14	$(-6.73 \pm 0.01) \times E-4$	$(-1.2 \pm 0.3) \times E-5$
15	$(-2 \pm 4) \times E-6$	$(-3 \pm 3) \times E-6$

