



Q20-021

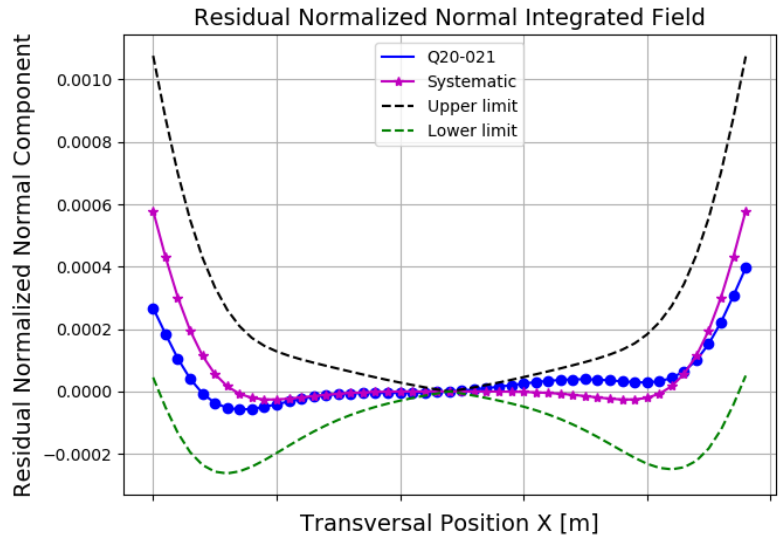
STORAGE RING MAGNET REPORT

Results

Date	18/06/2018
Hour	09:07:06
Temperature [°C]	23.78
Number of Measurements	9
Main Coil Current [A]	(157.4403 ± 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]	(-9.09625 ± 0.00004)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(16.07 ± 0.05)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(14.53 ± 0.06)
Roll [mrad] - ($< \pm 0.3$)	$(-2.6 \pm 0.4) \times 10^{-2}$

Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [$\text{m}\Omega$]	34.4
Main Coil Number of Turns	23.25



n	Normalized Normal Multipoles $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
1 (dipole)	$(-1.339 \pm 0.004) \times 10^{-3}$	$(-1.211 \pm 0.005) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000007)	$(-5.3 \pm 0.9) \times 10^{-5}$
3 (sextupole)	$(5.9 \pm 0.6) \times 10^{-5}$	$(4.86 \pm 0.09) \times 10^{-4}$
4	$(2.2 \pm 0.1) \times 10^{-4}$	$(-7.3 \pm 0.5) \times 10^{-5}$
5	$(1.4 \pm 0.8) \times 10^{-5}$	$(-6.1 \pm 0.8) \times 10^{-5}$
6	$(-8.60 \pm 0.06) \times 10^{-4}$	$(1.22 \pm 0.09) \times 10^{-4}$
7	$(5 \pm 8) \times 10^{-6}$	$(-2.2 \pm 0.9) \times 10^{-5}$
8	$(-1.7 \pm 0.5) \times 10^{-5}$	$(6 \pm 8) \times 10^{-6}$
9	$(-2.8 \pm 0.4) \times 10^{-5}$	$(-8 \pm 5) \times 10^{-6}$
10	$(1.697 \pm 0.009) \times 10^{-3}$	$(-5.0 \pm 0.7) \times 10^{-5}$
11	$(-2.2 \pm 74.0) \times 10^{-7}$	$(9 \pm 6) \times 10^{-6}$
12	$(8 \pm 7) \times 10^{-6}$	$(6 \pm 6) \times 10^{-6}$
13	$(1.6 \pm 0.5) \times 10^{-5}$	$(7 \pm 8) \times 10^{-6}$
14	$(-7.14 \pm 0.07) \times 10^{-4}$	$(3.0 \pm 0.8) \times 10^{-5}$
15	$(-1 \pm 4) \times 10^{-6}$	$(-5 \pm 5) \times 10^{-6}$

