



Q20-061

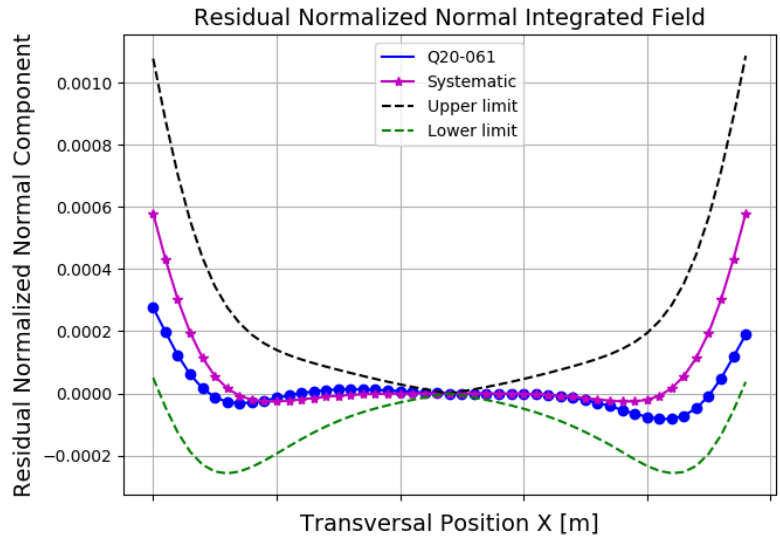
STORAGE RING MAGNET REPORT

Results

Date	18/05/2018
Hour	10:34:06
Temperature [°C]	23.56
Number of Measurements	9
Main Coil Current [A]	(157.4371 ± 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]	(-9.08767 ± 0.00004)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(8.41 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(6.55 ± 0.08)
Roll [mrad] - ($< \pm 0.3$)	$(-1.32 \pm 0.03) \times E^{-1}$

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 $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
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1 (dipole)	$(-7.01 \pm 0.03) \times E^{-4}$	$(-5.46 \pm 0.07) \times E^{-4}$
2 (quadrupole)	(1.000000 ± 0.000006)	$(-2.64 \pm 0.07) \times E^{-4}$
3 (sextupole)	$(-2.5 \pm 0.4) \times E^{-5}$	$(3.27 \pm 0.06) \times E^{-4}$
4	$(1.34 \pm 0.03) \times E^{-4}$	$(-2 \pm 6) \times E^{-6}$
5	$(-2.5 \pm 0.4) \times E^{-5}$	$(-1.7 \pm 0.5) \times E^{-5}$
6	$(-8.72 \pm 0.06) \times E^{-4}$	$(1.03 \pm 0.06) \times E^{-4}$
7	$(1.2 \pm 0.4) \times E^{-5}$	$(-9 \pm 4) \times E^{-6}$
8	$(5 \pm 4) \times E^{-6}$	$(-3 \pm 6) \times E^{-6}$
9	$(-4 \pm 5) \times E^{-6}$	$(-5 \pm 7) \times E^{-6}$
10	$(1.680 \pm 0.007) \times E^{-3}$	$(-6.1 \pm 0.5) \times E^{-5}$
11	$(-9.0 \pm 67.1) \times E^{-7}$	$(8 \pm 6) \times E^{-6}$
12	$(-4 \pm 6) \times E^{-6}$	$(1.1 \pm 0.5) \times E^{-5}$
13	$(4 \pm 4) \times E^{-6}$	$(6 \pm 4) \times E^{-6}$
14	$(-7.10 \pm 0.08) \times E^{-4}$	$(2.2 \pm 0.7) \times E^{-5}$
15	$(-4 \pm 5) \times E^{-6}$	$(-1.1 \pm 0.6) \times E^{-5}$

