



Q20-110

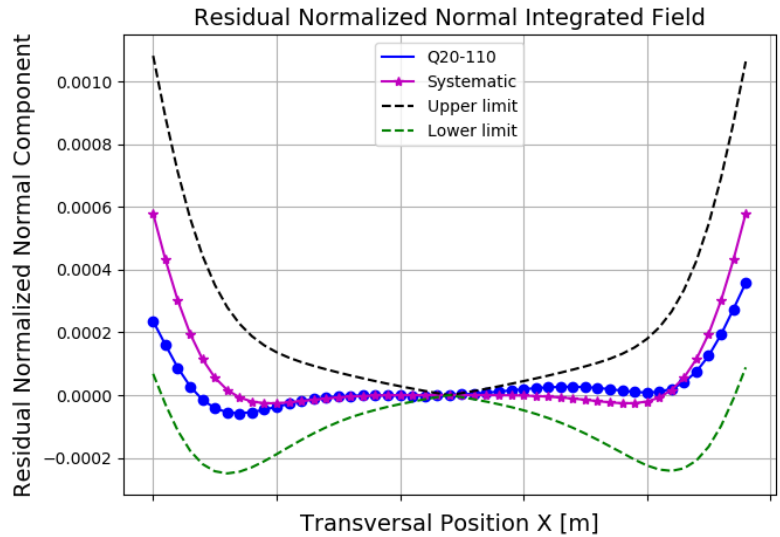
STORAGE RING MAGNET REPORT

Results

Date	17/05/2018
Hour	12:24:31
Temperature [°C]	23.61
Number of Measurements	9
Main Coil Current [A]	(157.5577 ± 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]	(-9.09745 ± 0.00004)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(5.72 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	$(-5.1 \pm 0.5) \times E-1$
Roll [mrad] - ($< \pm 0.3$)	$(-1.01 \pm 0.02) \times E-1$

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 $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(-4.77 \pm 0.03) \times E-4$	$(4.3 \pm 0.4) \times E-5$
2 (quadrupole)	(1.000000 ± 0.000006)	$(-2.01 \pm 0.03) \times E-4$
3 (sextupole)	$(3.9 \pm 0.2) \times E-5$	$(1.70 \pm 0.05) \times E-4$
4	$(1.97 \pm 0.02) \times E-4$	$(-2.4 \pm 0.5) \times E-5$
5	$(8 \pm 4) \times E-6$	$(-2 \pm 4) \times E-6$
6	$(-8.58 \pm 0.04) \times E-4$	$(8.4 \pm 0.7) \times E-5$
7	$(2.2 \pm 0.3) \times E-5$	$(-1.8 \pm 0.4) \times E-5$
8	$(-1.4 \pm 0.3) \times E-5$	$(-7 \pm 5) \times E-6$
9	$(5 \pm 5) \times E-6$	$(3 \pm 5) \times E-6$
10	$(1.682 \pm 0.005) \times E-3$	$(-6.0 \pm 0.4) \times E-5$
11	$(-9 \pm 5) \times E-6$	$(1.1 \pm 0.5) \times E-5$
12	$(6 \pm 5) \times E-6$	$(5 \pm 5) \times E-6$
13	$(-7 \pm 4) \times E-6$	$(7.8 \pm 22.2) \times E-7$
14	$(-7.16 \pm 0.04) \times E-4$	$(3.6 \pm 0.7) \times E-5$
15	$(3 \pm 4) \times E-6$	$(-9 \pm 5) \times E-6$

