



Q20-120

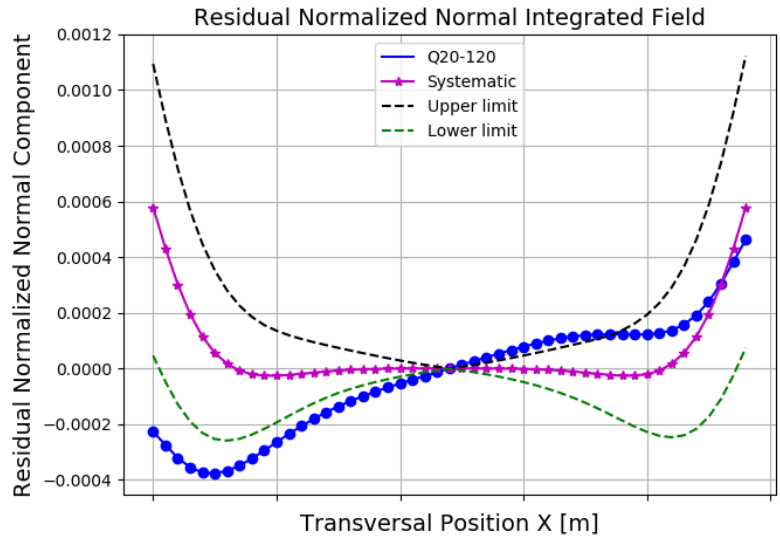
STORAGE RING MAGNET REPORT

Results

Date	05/06/2018
Hour	16:21:04
Temperature [°C]	22.94
Number of Measurements	9
Main Coil Current [A]	(157.4360 ± 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]	(-9.08683 ± 0.00004)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	$(-4.6 \pm 0.3) \times E-1$
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(5.03 ± 0.04)
Roll [mrad] - ($< \pm 0.3$)	$(1.46 \pm 0.02) \times E-1$

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)	$(3.8 \pm 0.2) \times E-5$	$(-4.19 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000007)	$(2.91 \pm 0.05) \times E-4$
3 (sextupole)	$(3.21 \pm 0.03) \times E-4$	$(3.23 \pm 0.04) \times E-4$
4	$(1.8 \pm 0.4) \times E-5$	$(-1.2 \pm 0.3) \times E-5$
5	$(3.8 \pm 0.4) \times E-5$	$(-4.9 \pm 0.4) \times E-5$
6	$(-8.51 \pm 0.04) \times E-4$	$(7.7 \pm 0.6) \times E-5$
7	$(-1.4 \pm 0.4) \times E-5$	$(-1.4 \pm 0.7) \times E-5$
8	$(9 \pm 6) \times E-6$	$(-3 \pm 4) \times E-6$
9	$(-1.9 \pm 0.6) \times E-5$	$(-2 \pm 5) \times E-6$
10	$(1.649 \pm 0.004) \times E-3$	$(-2.7 \pm 0.6) \times E-5$
11	$(1.4 \pm 0.6) \times E-5$	$(1.1 \pm 0.8) \times E-5$
12	$(-1.3 \pm 0.7) \times E-5$	$(7 \pm 5) \times E-6$
13	$(1.7 \pm 0.7) \times E-5$	$(2 \pm 6) \times E-6$
14	$(-6.94 \pm 0.05) \times E-4$	$(-5 \pm 9) \times E-6$
15	$(-1.3 \pm 0.7) \times E-5$	$(-6 \pm 6) \times E-6$

