



Q20-179

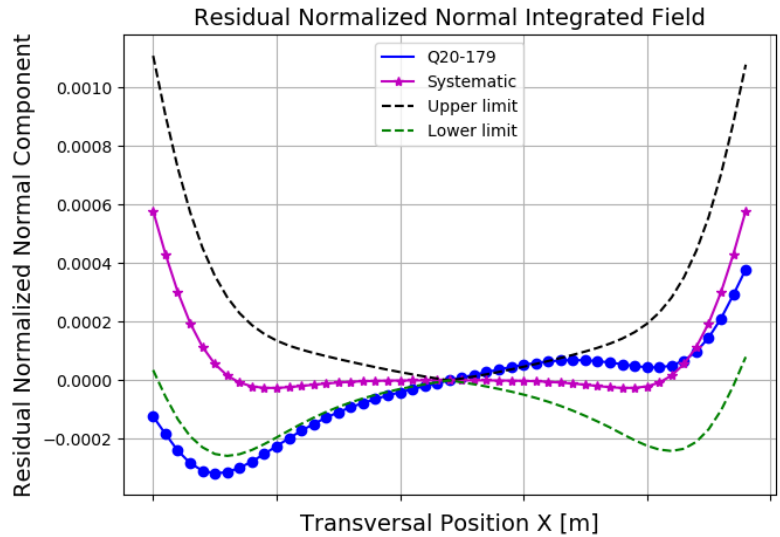
STORAGE RING MAGNET REPORT

Results

Date	28/05/2018
Hour	11:41:14
Temperature [°C]	21.49
Number of Measurements	9
Main Coil Current [A]	(157.4400 ± 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]	(-9.08937 ± 0.00003)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(9.48 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	$(3.3 \pm 0.6) \times E-1$
Roll [mrad] - ($< \pm 0.3$)	$(8.5 \pm 0.3) \times E-2$

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 $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(-7.90 \pm 0.02) \times E-4$	$(-2.7 \pm 0.5) \times E-5$
2 (quadrupole)	(1.000000 ± 0.000005)	$(1.69 \pm 0.07) \times E-4$
3 (sextupole)	$(2.32 \pm 0.03) \times E-4$	$(1.67 \pm 0.06) \times E-4$
4	$(-3.5 \pm 0.2) \times E-5$	$(-2.6 \pm 0.6) \times E-5$
5	$(2.7 \pm 0.3) \times E-5$	$(-1.4 \pm 0.6) \times E-5$
6	$(-8.14 \pm 0.03) \times E-4$	$(7.8 \pm 0.7) \times E-5$
7	$(-5 \pm 4) \times E-6$	$(-2 \pm 4) \times E-6$
8	$(5 \pm 2) \times E-6$	$(-1.2 \pm 0.4) \times E-5$
9	$(-2.2 \pm 0.2) \times E-5$	$(5 \pm 5) \times E-6$
10	$(1.673 \pm 0.004) \times E-3$	$(-3.5 \pm 0.6) \times E-5$
11	$(2 \pm 6) \times E-6$	$(-7 \pm 4) \times E-6$
12	$(-2 \pm 6) \times E-6$	$(1.0 \pm 0.5) \times E-5$
13	$(1.8 \pm 0.5) \times E-5$	$(-4 \pm 6) \times E-6$
14	$(-6.99 \pm 0.05) \times E-4$	$(1.9 \pm 0.7) \times E-5$
15	$(-4.1 \pm 40.1) \times E-7$	$(6 \pm 7) \times E-6$

