



Q20-172

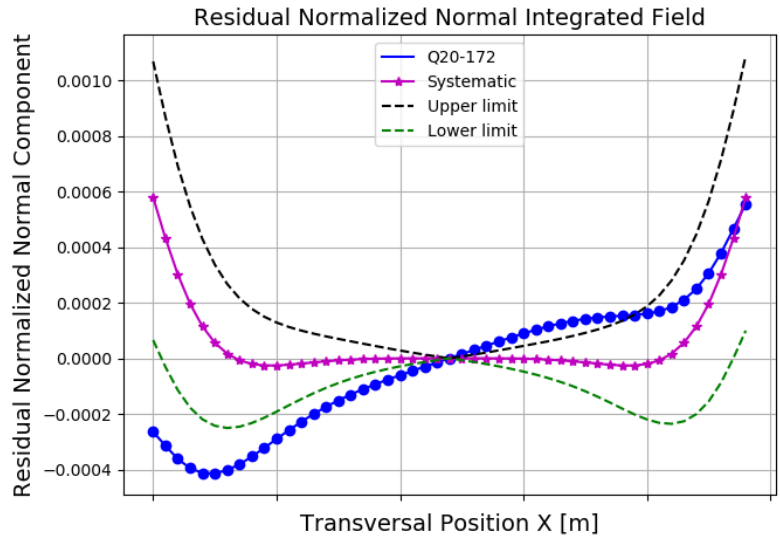
STORAGE RING MAGNET REPORT

Results

Date	06/06/2018
Hour	16:13:55
Temperature [°C]	22.73
Number of Measurements	9
Main Coil Current [A]	(157.4342 ± 0.0007)
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]	(-9.07917 ± 0.00003)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	$(-2.3 \pm 0.3) \times \text{E-1}$
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(-8.67 ± 0.04)
Roll [mrad] - ($< \pm 0.3$)	$(1.80 \pm 0.02) \times \text{E-1}$

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)	$(1.9 \pm 0.2) \times \text{E-5}$	$(7.23 \pm 0.03) \times \text{E-4}$
2 (quadrupole)	(1.000000 ± 0.000004)	$(3.60 \pm 0.04) \times \text{E-4}$
3 (sextupole)	$(3.62 \pm 0.03) \times \text{E-4}$	$(-3.6 \pm 0.4) \times \text{E-5}$
4	$(2.3 \pm 0.3) \times \text{E-5}$	$(-6.7 \pm 0.2) \times \text{E-5}$
5	$(5.4 \pm 0.3) \times \text{E-5}$	$(5 \pm 2) \times \text{E-6}$
6	$(-8.41 \pm 0.04) \times \text{E-4}$	$(5.1 \pm 0.4) \times \text{E-5}$
7	$(6.3 \pm 30.2) \times \text{E-7}$	$(-2.8 \pm 34.2) \times \text{E-7}$
8	$(3 \pm 2) \times \text{E-6}$	$(-2 \pm 4) \times \text{E-6}$
9	$(-6 \pm 3) \times \text{E-6}$	$(9 \pm 3) \times \text{E-6}$
10	$(1.661 \pm 0.004) \times \text{E-3}$	$(-1.1 \pm 0.3) \times \text{E-5}$
11	$(1 \pm 3) \times \text{E-6}$	$(-6.23 \pm 269.93) \times \text{E-8}$
12	$(-9.6 \pm 21.1) \times \text{E-7}$	$(1.1 \pm 0.4) \times \text{E-5}$
13	$(-2.0 \pm 15.9) \times \text{E-7}$	$(-6 \pm 4) \times \text{E-6}$
14	$(-6.98 \pm 0.02) \times \text{E-4}$	$(-1.3 \pm 0.4) \times \text{E-5}$
15	$(-1 \pm 4) \times \text{E-6}$	$(8.5 \pm 35.9) \times \text{E-7}$

