



Q20-026

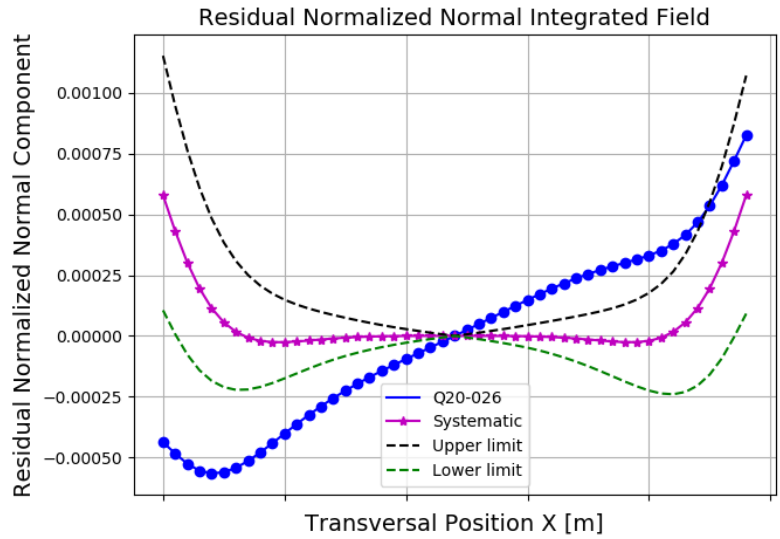
STORAGE RING MAGNET REPORT

Results

Date	12/06/2018
Hour	15:38:04
Temperature [°C]	22.39
Number of Measurements	9
Main Coil Current [A]	(157.4383 ± 0.0009)
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]	(-9.09362 ± 0.00004)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	$(-1.1 \pm 0.3) \times E-1$
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(7.74 ± 0.03)
Roll [mrad] - ($< \pm 0.3$)	$(1.68 \pm 0.02) \times E-1$

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⁾]
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1 (dipole)	$(9 \pm 3) \times E-6$	$(-6.45 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000006)	$(3.35 \pm 0.04) \times E-4$
3 (sextupole)	$(5.80 \pm 0.02) \times E-4$	$(1.35 \pm 0.03) \times E-4$
4	$(8.6 \pm 0.3) \times E-5$	$(-1.7 \pm 0.4) \times E-5$
5	$(7.2 \pm 0.3) \times E-5$	$(2.083 \pm 2560.473) \times E-9$
6	$(-8.73 \pm 0.04) \times E-4$	$(6.8 \pm 0.3) \times E-5$
7	$(-1.0 \pm 0.4) \times E-5$	$(-7 \pm 4) \times E-6$
8	$(-7 \pm 2) \times E-6$	$(2 \pm 3) \times E-6$
9	$(-2.0 \pm 0.3) \times E-5$	$(-1.4 \pm 0.4) \times E-5$
10	$(1.691 \pm 0.004) \times E-3$	$(-2.1 \pm 0.3) \times E-5$
11	$(1.4 \pm 44.3) \times E-7$	$(-2 \pm 5) \times E-6$
12	$(2 \pm 4) \times E-6$	$(3.4 \pm 43.6) \times E-7$
13	$(1.1 \pm 0.3) \times E-5$	$(1.0 \pm 0.2) \times E-5$
14	$(-7.05 \pm 0.02) \times E-4$	$(3 \pm 4) \times E-6$
15	$(-1 \pm 5) \times E-6$	$(2 \pm 4) \times E-6$

