



Q20-069

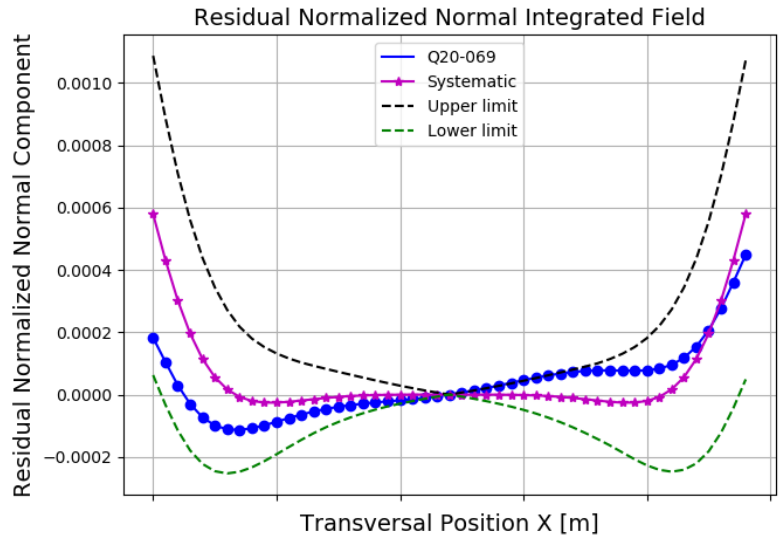
STORAGE RING MAGNET REPORT

Results

Date	16/05/2018
Hour	12:35:15
Temperature [°C]	23.65
Number of Measurements	9
Main Coil Current [A]	(157.4364 ± 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]	(-9.07933 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-4.27 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(5.85 ± 0.04)
Roll [mrad] - (< ±0.3)	(-1.78 ± 0.02) × E-1

Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [mΩ]	34.4
Main Coil Number of Turns	23.25



n	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(3.56 ± 0.01) × E-4	(-4.87 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-3.56 ± 0.04) × E-4
3 (sextupole)	(1.43 ± 0.02) × E-4	(1.25 ± 0.03) × E-4
4	(2.19 ± 0.02) × E-4	(-4.8 ± 0.3) × E-5
5	(4.32 ± 283.25) × E-8	(3 ± 3) × E-6
6	(-8.64 ± 0.03) × E-4	(6.7 ± 0.3) × E-5
7	(-2.1 ± 0.4) × E-5	(3 ± 3) × E-6
8	(-1.9 ± 0.3) × E-5	(-6 ± 3) × E-6
9	(4 ± 4) × E-6	(-6 ± 3) × E-6
10	(1.673 ± 0.002) × E-3	(-3.2 ± 0.3) × E-5
11	(9 ± 3) × E-6	(-6 ± 4) × E-6
12	(1.4 ± 0.2) × E-5	(6 ± 4) × E-6
13	(3 ± 2) × E-6	(6 ± 3) × E-6
14	(-7.06 ± 0.02) × E-4	(8 ± 2) × E-6
15	(-5 ± 4) × E-6	(4 ± 3) × E-6

