

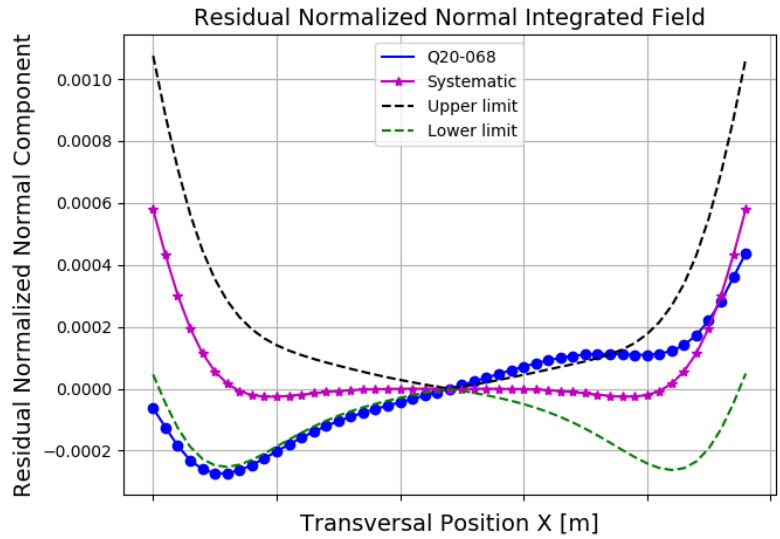


Q20-068

STORAGE RING MAGNET REPORT

Results

Date	08/06/2018
Hour	16:49:53
Temperature [°C]	23.07
Number of Measurements	9
Main Coil Current [A]	(157.4380 ± 0.0002)
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]	(-9.08443 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(8.25 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.16 ± 0.05)
Roll [mrad] - (< ±0.3)	(1.49 ± 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⁾]
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1 (dipole)	(-6.87 ± 0.02) × E-4	(-3.47 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(2.98 ± 0.05) × E-4
3 (sextupole)	(2.75 ± 0.01) × E-4	(7.8 ± 0.4) × E-5
4	(1.01 ± 0.04) × E-4	(-1.4 ± 0.4) × E-5
5	(-1.6 ± 0.5) × E-5	(-9.9 ± 59.3) × E-7
6	(-8.74 ± 0.04) × E-4	(1.08 ± 0.04) × E-4
7	(-8.3 ± 60.2) × E-7	(-1 ± 3) × E-6
8	(-1 ± 4) × E-6	(-1.1 ± 0.4) × E-5
9	(-1.1 ± 0.4) × E-5	(-8 ± 5) × E-6
10	(1.665 ± 0.004) × E-3	(-5.9 ± 0.5) × E-5
11	(-4 ± 6) × E-6	(3 ± 6) × E-6
12	(-4 ± 4) × E-6	(1.5 ± 0.5) × E-5
13	(5 ± 4) × E-6	(6 ± 3) × E-6
14	(-6.99 ± 0.04) × E-4	(2.1 ± 0.4) × E-5
15	(2 ± 3) × E-6	(-5 ± 3) × E-6

