

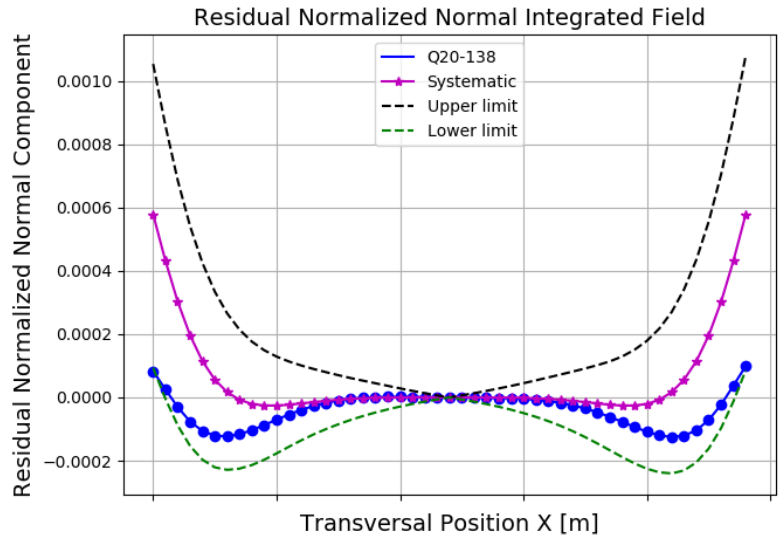


Q20-138

STORAGE RING MAGNET REPORT

Results

Date	15/05/2018
Hour	16:12:34
Temperature [°C]	23.5
Number of Measurements	9
Main Coil Current [A]	(157.5575 ± 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]	(-9.09165 ± 0.00005)
Magnet Center Offset X [μm] - (< ±40.0)	(10.41 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(8.56 ± 0.04)
Roll [mrad] - (< ±0.3)	(-7.7 ± 0.1) x E-2
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)	(-8.68 ± 0.02) x E-4	(-7.13 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000008)	(-1.54 ± 0.02) x E-4
3 (sextupole)	(-1.3 ± 0.3) x E-5	(2.67 ± 0.03) x E-4
4	(2.6 ± 0.4) x E-5	(-4.9 ± 0.5) x E-5
5	(1.5 ± 0.4) x E-5	(-4.9 ± 0.4) x E-5
6	(-9.02 ± 0.02) x E-4	(6.9 ± 0.4) x E-5
7	(1.6 ± 0.4) x E-5	(-1.4 ± 0.5) x E-5
8	(4 ± 4) x E-6	(-6 ± 4) x E-6
9	(-1.4 ± 0.6) x E-5	(2 ± 5) x E-6
10	(1.681 ± 0.004) x E-3	(-4.8 ± 0.5) x E-5
11	(-6 ± 5) x E-6	(9 ± 4) x E-6
12	(-5 ± 2) x E-6	(8 ± 4) x E-6
13	(1.0 ± 0.6) x E-5	(-8.2 ± 45.2) x E-7
14	(-7.14 ± 0.04) x E-4	(2.3 ± 0.5) x E-5
15	(-1 ± 5) x E-6	(-9 ± 4) x E-6

