

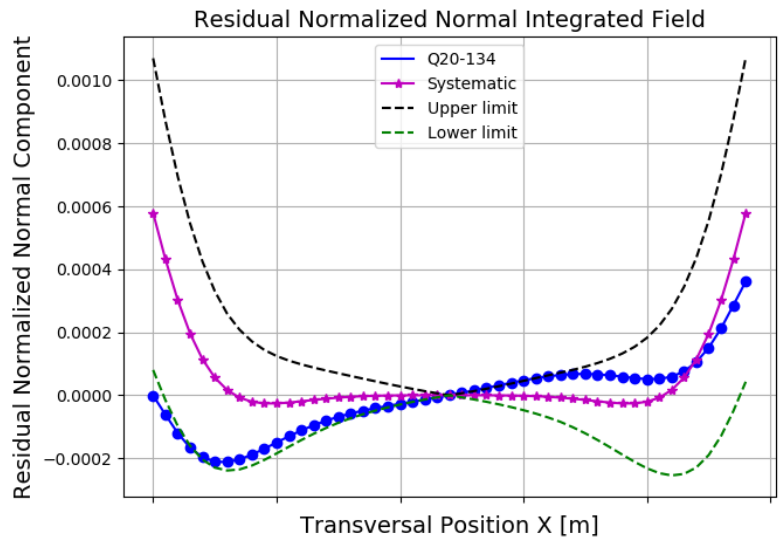


Q20-134

STORAGE RING MAGNET REPORT

Results

Date	15/05/2018
Hour	16:56:12
Temperature [°C]	23.52
Number of Measurements	9
Main Coil Current [A]	(157.5173 ± 0.0005)
Integrated Gradient [T]	(-9.08913 ± 0.00005)
Magnet Center Offset X [μm] - (< ±40.0)	(1.79 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(10.02 ± 0.02)
Roll [mrad] - (< ±0.3)	(-7.7 ± 0.2) 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⁾]
1 (dipole)	(-1.50 ± 0.02) x E-4	(-8.35 ± 0.02) x E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(-1.54 ± 0.04) x E-4
3 (sextupole)	(1.76 ± 0.02) x E-4	(3.18 ± 0.03) x E-4
4	(1.08 ± 0.02) x E-4	(-2.4 ± 0.3) x E-5
5	(1.0 ± 0.2) x E-5	(-3.4 ± 0.3) x E-5
6	(-8.91 ± 0.02) x E-4	(5.6 ± 0.2) x E-5
7	(-10.0 ± 29.4) x E-7	(-9 ± 3) x E-6
8	(-5 ± 4) x E-6	(-3 ± 3) x E-6
9	(-4 ± 3) x E-6	(-5 ± 3) x E-6
10	(1.684 ± 0.003) x E-3	(-3.3 ± 0.2) x E-5
11	(-3.0 ± 34.2) x E-7	(-5 ± 4) x E-6
12	(-7.4 ± 39.8) x E-7	(3 ± 3) x E-6
13	(8.4 ± 33.3) x E-7	(4 ± 3) x E-6
14	(-7.14 ± 0.02) x E-4	(8 ± 3) x E-6
15	(-5.7 ± 34.8) x E-7	(5 ± 2) x E-6

