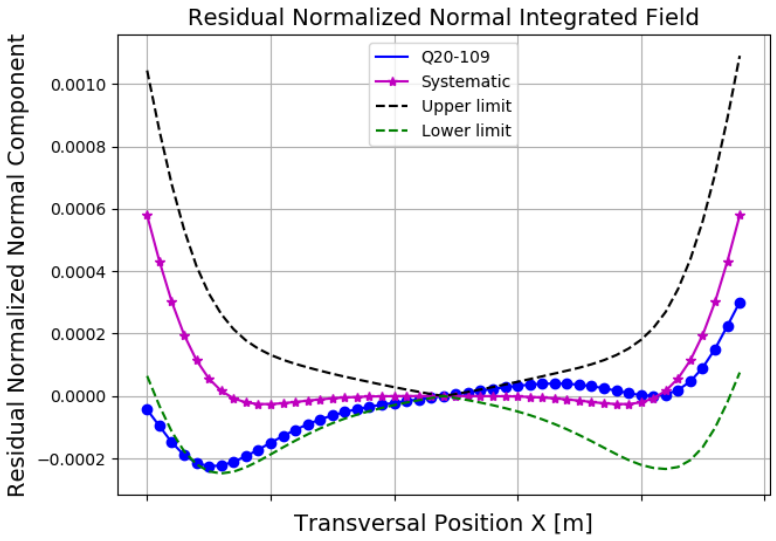
Q20-109

STORAGE RING MAGNET REPORT

Results	
Date	11/06/2018
Hour	09:21:21
Temperature [°C]	22.99
Number of Measurements	9
Main Coil Current [A]	(157.3612 ± 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]	(-9.09671 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(9.07 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.18 ± 0.04)
Roll [mrad] - (< ±0.3)	(2.03 ± 0.01) x E-1
Electric Parameters	
Indutance [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)	(-7.56 ± 0.02) x E-4	(-3.49 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(4.07 ± 0.02) x E-4
3 (sextupole)	(1.33 ± 0.02) x E-4	(3.04 ± 0.02) x E-4
4	(4.0 ± 0.3) x E-5	(-2.3 ± 0.3) x E-5
5	(2.3 ± 0.3) x E-5	(-1.4 ± 0.4) x E-5
6	(-8.79 ± 0.03) x E-4	(7.5 ± 0.3) x E-5
7	(2.5 ± 0.4) x E-5	(-1.9 ± 0.3) x E-5
8	(6 ± 4) x E-6	(-1.0 ± 0.4) x E-5
9	(-5 ± 4) x E-6	(-5 ± 5) x E-6
10	(1.681 ± 0.003) x E-3	(-2.8 ± 0.3) x E-5
11	(-1.6 ± 0.4) x E-5	(7 ± 4) x E-6
12	(-8 ± 3) x E-6	(1.2 ± 0.5) x E-5
13	(2 ± 4) x E-6	(6 ± 2) x E-6
14	(-7.12 ± 0.04) x E-4	(3.7 ± 34.7) x E-7
15	(1.0 ± 0.4) x E-5	(-1 ± 4) x E-6