

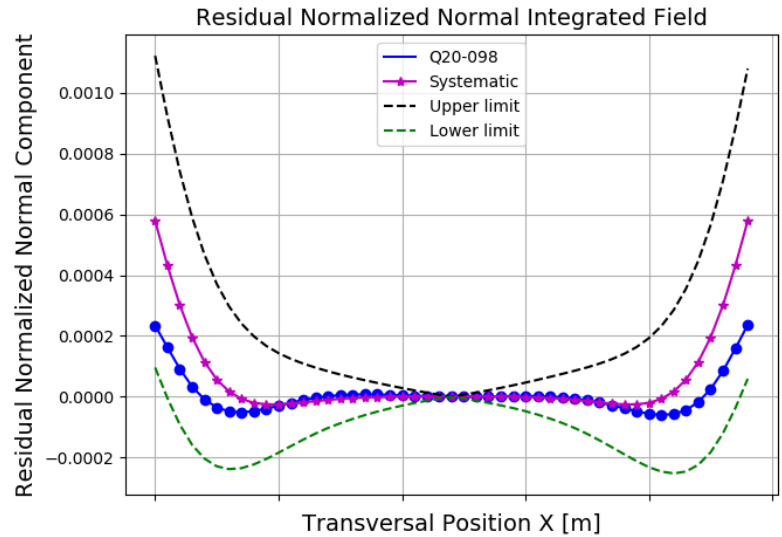


Q20-098

## STORAGE RING MAGNET REPORT

### Results

Date	04/06/2018
Hour	10:14:58
Temperature [°C]	23.09
Number of Measurements	9
Main Coil Current [A]	(157.4403 ± 0.0007)
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]	(-9.08309 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(11.69 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(-2.29 ± 0.10)
Roll [mrad] - (< ±0.3)	(8.7 ± 0.4) × 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-9.74 ± 0.04) × E-4	(1.91 ± 0.08) × E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(1.74 ± 0.09) × E-4
3 (sextupole)	(-1.1 ± 0.3) × E-5	(-8.6 ± 0.7) × E-5
4	(1.24 ± 0.07) × E-4	(-2.9 ± 0.6) × E-5
5	(8 ± 3) × E-6	(7 ± 6) × E-6
6	(-8.43 ± 0.05) × E-4	(4.7 ± 0.9) × E-5
7	(1.4 ± 0.4) × E-5	(1.1 ± 0.8) × E-5
8	(-2 ± 7) × E-6	(-1.0 ± 12.4) × E-6
9	(-2.3 ± 0.6) × E-5	(4 ± 7) × E-6
10	(1.663 ± 0.006) × E-3	(-2.1 ± 0.5) × E-5
11	(-8 ± 8) × E-6	(-10 ± 5) × E-6
12	(-6 ± 3) × E-6	(-1.2 ± 85.4) × E-7
13	(1.4 ± 0.5) × E-5	(-1.1 ± 0.7) × E-5
14	(-7.02 ± 0.06) × E-4	(3 ± 4) × E-6
15	(7 ± 7) × E-6	(9 ± 6) × E-6

