



# Q20-007

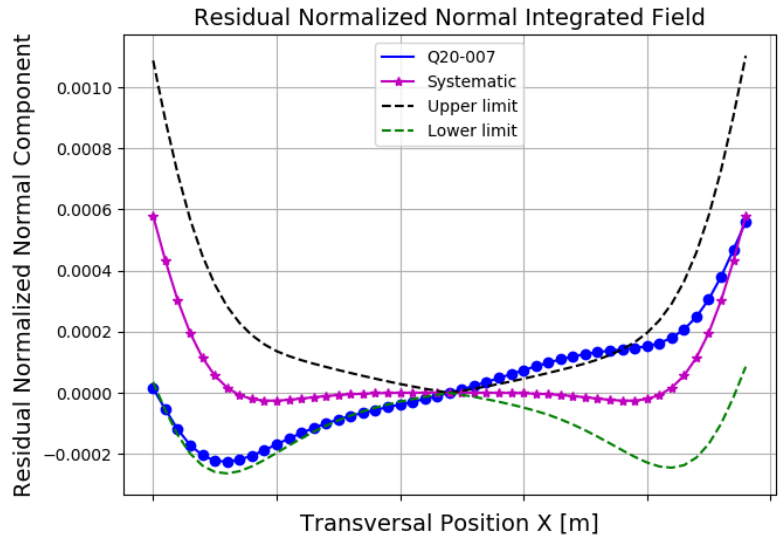
## STORAGE RING MAGNET REPORT

### Results

Date	11/06/2018
Hour	13:08:34
Temperature [°C]	22.95
Number of Measurements	9
Main Coil Current [A]	(157.439 ± 0.002)
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]	(-9.11053 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(6.88 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.90 ± 0.04)
Roll [mrad] - (< ±0.3)	(5.7 ± 0.3) × 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)	(-5.73 ± 0.02) × E-4	(-3.25 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(1.15 ± 0.06) × E-4
3 (sextupole)	(2.59 ± 0.02) × E-4	(9.2 ± 0.4) × E-5
4	(1.99 ± 0.05) × E-4	(-4.8 ± 0.4) × E-5
5	(2.3 ± 0.5) × E-5	(1.3 ± 0.4) × E-5
6	(-8.83 ± 0.06) × E-4	(7.2 ± 0.4) × E-5
7	(6.60 ± 483.32) × E-8	(-3 ± 5) × E-6
8	(-8 ± 5) × E-6	(-7.98 ± 820.02) × E-8
9	(-1.1 ± 0.7) × E-5	(-2 ± 9) × E-6
10	(1.679 ± 0.007) × E-3	(-3 ± 1) × E-5
11	(7.5 ± 71.8) × E-7	(-1 ± 6) × E-6
12	(5.8 ± 57.4) × E-7	(4.9 ± 11.7) × E-6
13	(2 ± 7) × E-6	(1 ± 6) × E-6
14	(-7.01 ± 0.06) × E-4	(7 ± 5) × E-6
15	(-2 ± 6) × E-6	(-4 ± 7) × E-6

