



# Q20-013

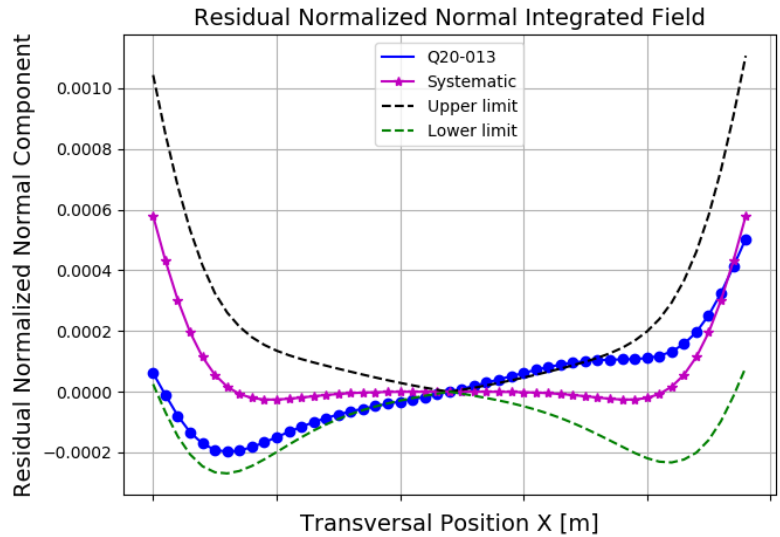
## STORAGE RING MAGNET REPORT

### Results

Date	15/06/2018
Hour	11:43:09
Temperature [°C]	23.59
Number of Measurements	9
Main Coil Current [A]	(157.4373 ± 0.0005)
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]	(-9.10399 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(4.06 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.78 ± 0.05)
Roll [mrad] - (< ±0.3)	(1.58 ± 0.02) × E-1

### 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)	(-3.39 ± 0.02) × E-4	(-6.48 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(3.16 ± 0.05) × E-4
3 (sextupole)	(2.19 ± 0.04) × E-4	(2.40 ± 0.04) × E-4
4	(1.68 ± 0.07) × E-4	(-7.8 ± 0.5) × E-5
5	(2 ± 7) × E-6	(-1.2 ± 0.4) × E-5
6	(-8.68 ± 0.05) × E-4	(1.30 ± 0.05) × E-4
7	(6.2 ± 42.0) × E-7	(-3 ± 7) × E-6
8	(2 ± 4) × E-6	(2 ± 5) × E-6
9	(-2 ± 5) × E-6	(3 ± 8) × E-6
10	(1.697 ± 0.003) × E-3	(-5.3 ± 0.5) × E-5
11	(-1.7 ± 46.0) × E-7	(-3 ± 5) × E-6
12	(-6 ± 5) × E-6	(9 ± 4) × E-6
13	(2 ± 4) × E-6	(4.7 ± 53.0) × E-7
14	(-7.10 ± 0.04) × E-4	(3.2 ± 0.6) × E-5
15	(1.0 ± 56.3) × E-7	(5 ± 5) × E-6

