



# Q20-011

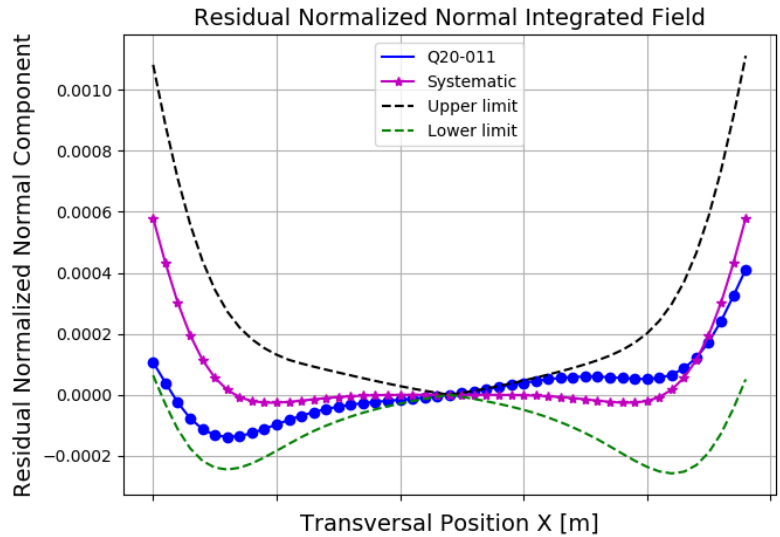
## STORAGE RING MAGNET REPORT

### Results

Date	13/06/2018
Hour	10:38:54
Temperature [°C]	22.62
Number of Measurements	9
Main Coil Current [A]	(157.4380 ± 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]	(-9.09734 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(1.93 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.17 ± 0.05)
Roll [mrad] - (< ±0.3)	(2.9 ± 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> ]
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1 (dipole)	(-1.61 ± 0.02) × E-4	(-5.98 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(5.8 ± 0.5) × E-5
3 (sextupole)	(1.23 ± 0.02) × E-4	(2.37 ± 0.05) × E-4
4	(1.81 ± 0.03) × E-4	(1.7 ± 0.4) × E-5
5	(1.5 ± 0.3) × E-5	(-3.5 ± 0.4) × E-5
6	(-8.97 ± 0.03) × E-4	(7.3 ± 0.4) × E-5
7	(1.6 ± 0.3) × E-5	(-9 ± 3) × E-6
8	(-6 ± 5) × E-6	(-4 ± 3) × E-6
9	(1 ± 4) × E-6	(-6 ± 5) × E-6
10	(1.691 ± 0.005) × E-3	(-2.7 ± 0.6) × E-5
11	(-7 ± 4) × E-6	(9.3 ± 42.8) × E-7
12	(-9.04 ± 348.49) × E-8	(3 ± 4) × E-6
13	(6.0 ± 50.9) × E-7	(5 ± 2) × E-6
14	(-7.09 ± 0.04) × E-4	(1.5 ± 0.4) × E-5
15	(4 ± 4) × E-6	(-1 ± 3) × E-6

