



# Q20-014

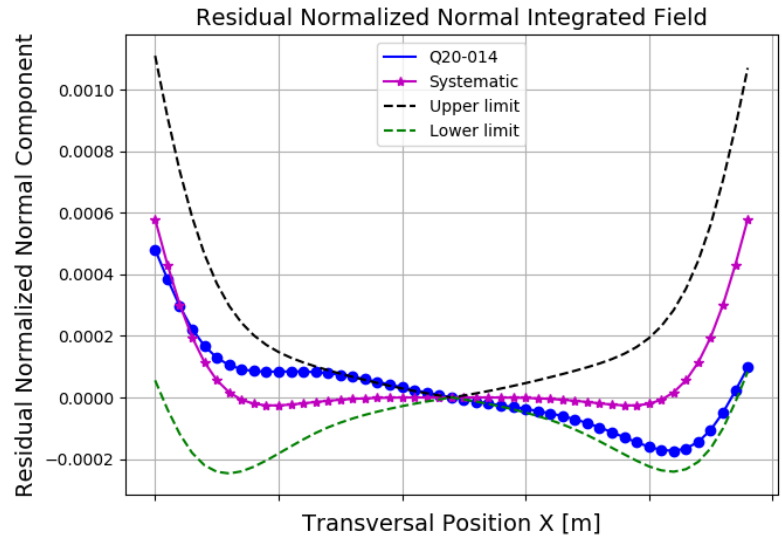
## STORAGE RING MAGNET REPORT

### Results

Date	15/06/2018
Hour	09:36:00
Temperature [°C]	23.56
Number of Measurements	9
Main Coil Current [A]	(157.4374 ± 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]	(-9.10324 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(9.65 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.06 ± 0.04)
Roll [mrad] - (< ±0.3)	(2.20 ± 0.02) x 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> ]
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1 (dipole)	(-8.05 ± 0.02) x E-4	(-8.8 ± 0.3) x E-5
2 (quadrupole)	(1.000000 ± 0.000006)	(4.40 ± 0.03) x E-4
3 (sextupole)	(-1.74 ± 0.02) x E-4	(7.5 ± 0.5) x E-5
4	(1.65 ± 0.04) x E-4	(-1.05 ± 0.04) x E-4
5	(-3.6 ± 0.4) x E-5	(1.6 ± 0.5) x E-5
6	(-8.63 ± 0.04) x E-4	(9.3 ± 0.5) x E-5
7	(3.4 ± 0.3) x E-5	(-3.8 ± 51.8) x E-7
8	(-9 ± 3) x E-6	(-2 ± 6) x E-6
9	(-4 ± 4) x E-6	(3.3 ± 49.9) x E-7
10	(1.699 ± 0.003) x E-3	(-2.9 ± 0.6) x E-5
11	(-8 ± 6) x E-6	(-2 ± 4) x E-6
12	(4 ± 4) x E-6	(8 ± 3) x E-6
13	(1 ± 4) x E-6	(3 ± 5) x E-6
14	(-7.07 ± 0.06) x E-4	(1.9 ± 0.6) x E-5
15	(-3 ± 4) x E-6	(2.8 ± 27.3) x E-7

