



# Q20-175

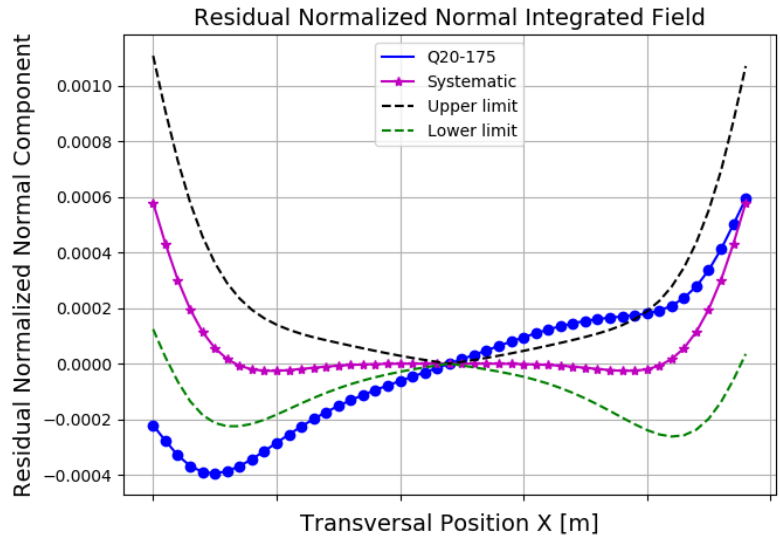
## STORAGE RING MAGNET REPORT

### Results

Date	29/05/2018
Hour	11:15:30
Temperature [°C]	22.67
Number of Measurements	9
Main Coil Current [A]	(157.438 ± 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]	(-9.08356 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-1.3 ± 0.4) x E-1
Magnet Center Offset Y [μm] - (< ±40.0)	(-8.99 ± 0.03)
Roll [mrad] - (< ±0.3)	(-3.8 ± 0.2) x 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)	(1.1 ± 0.3) x E-5	(7.49 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-7.7 ± 0.3) x E-5
3 (sextupole)	(3.78 ± 0.02) x E-4	(-2.55 ± 0.03) x E-4
4	(5.1 ± 0.3) x E-5	(-2.9 ± 0.2) x E-5
5	(3.8 ± 0.2) x E-5	(4.7 ± 0.3) x E-5
6	(-8.33 ± 0.03) x E-4	(4.1 ± 0.2) x E-5
7	(-6 ± 4) x E-6	(1.6 ± 0.3) x E-5
8	(5 ± 5) x E-6	(1 ± 2) x E-6
9	(-2 ± 3) x E-6	(-1 ± 5) x E-6
10	(1.667 ± 0.005) x E-3	(-1.2 ± 0.6) x E-5
11	(3 ± 3) x E-6	(-6 ± 3) x E-6
12	(-3 ± 4) x E-6	(5 ± 3) x E-6
13	(-2.1 ± 50.7) x E-7	(-7.9 ± 21.8) x E-7
14	(-7.02 ± 0.03) x E-4	(-4 ± 4) x E-6
15	(-3 ± 2) x E-6	(4.2 ± 35.6) x E-7

