

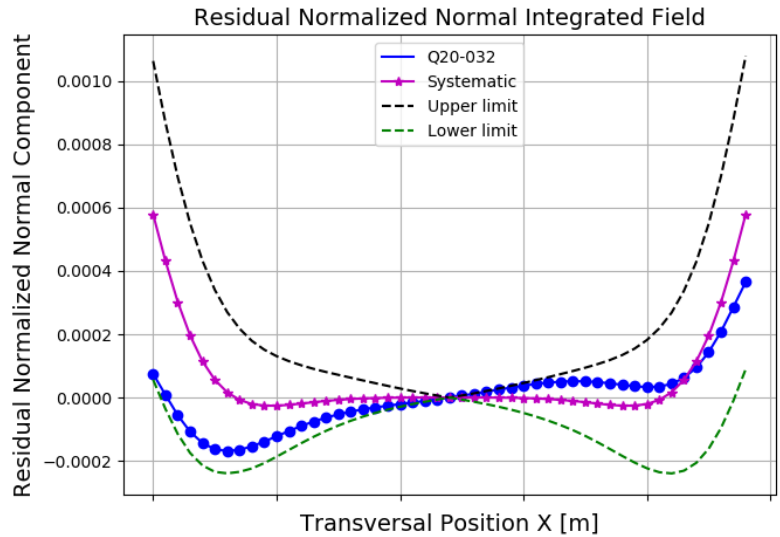


# Q20-032

## STORAGE RING MAGNET REPORT

### Results

Date	18/06/2018
Hour	11:26:54
Temperature [°C]	23.79
Number of Measurements	9
Main Coil Current [A]	(157.3599 ± 0.0004)
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]	(-9.11029 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(3.87 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-5.77 ± 0.03)
Roll [mrad] - (< ±0.3)	(1.18 ± 0.03) 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> ]
1 (dipole)	(-3.23 ± 0.01) x E-4	(4.81 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(2.37 ± 0.05) x E-4
3 (sextupole)	(1.37 ± 0.04) x E-4	(-1.27 ± 0.04) x E-4
4	(1.03 ± 0.04) x E-4	(-3.0 ± 0.5) x E-5
5	(6 ± 4) x E-6	(9 ± 5) x E-6
6	(-8.44 ± 0.05) x E-4	(8.9 ± 0.4) x E-5
7	(4 ± 5) x E-6	(1.6 ± 0.4) x E-5
8	(1 ± 5) x E-6	(-6 ± 4) x E-6
9	(10.0 ± 58.0) x E-7	(-2 ± 5) x E-6
10	(1.685 ± 0.004) x E-3	(-3.6 ± 0.5) x E-5
11	(-7.9 ± 47.1) x E-7	(-3 ± 8) x E-6
12	(-3 ± 5) x E-6	(8 ± 3) x E-6
13	(-9.2 ± 27.3) x E-7	(-2 ± 6) x E-6
14	(-7.22 ± 0.04) x E-4	(2.0 ± 0.4) x E-5
15	(-1 ± 2) x E-6	(3 ± 4) x E-6

