



Q20-170

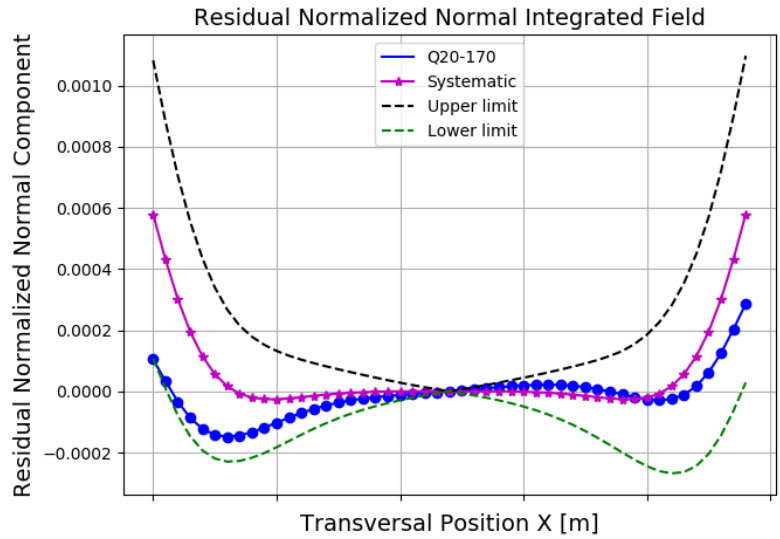
## STORAGE RING MAGNET REPORT

### Results

Date	07/06/2018
Hour	09:06:20
Temperature [°C]	23.0
Number of Measurements	9
Main Coil Current [A]	(157.5548 ± 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]	(-9.08679 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(8.54 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(11.59 ± 0.06)
Roll [mrad] - (< ±0.3)	(-3.2 ± 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)	(-7.11 ± 0.03) x E-4	(-9.66 ± 0.05) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-6.3 ± 0.4) x E-5
3 (sextupole)	(7.6 ± 0.4) x E-5	(2.18 ± 0.04) x E-4
4	(5.5 ± 0.4) x E-5	(-10 ± 4) x E-6
5	(10 ± 3) x E-6	(-9 ± 4) x E-6
6	(-8.28 ± 0.01) x E-4	(6.5 ± 0.6) x E-5
7	(8 ± 4) x E-6	(-9 ± 4) x E-6
8	(-9.7 ± 52.6) x E-7	(-7 ± 4) x E-6
9	(-1.3 ± 0.4) x E-5	(-1.8 ± 0.3) x E-5
10	(1.659 ± 0.003) x E-3	(-3.2 ± 0.4) x E-5
11	(5.1 ± 30.6) x E-7	(2.7 ± 74.6) x E-7
12	(3 ± 4) x E-6	(8 ± 5) x E-6
13	(1.2 ± 0.5) x E-5	(1.2 ± 0.5) x E-5
14	(-6.93 ± 0.04) x E-4	(-2 ± 2) x E-6
15	(-3 ± 3) x E-6	(-2 ± 4) x E-6

