

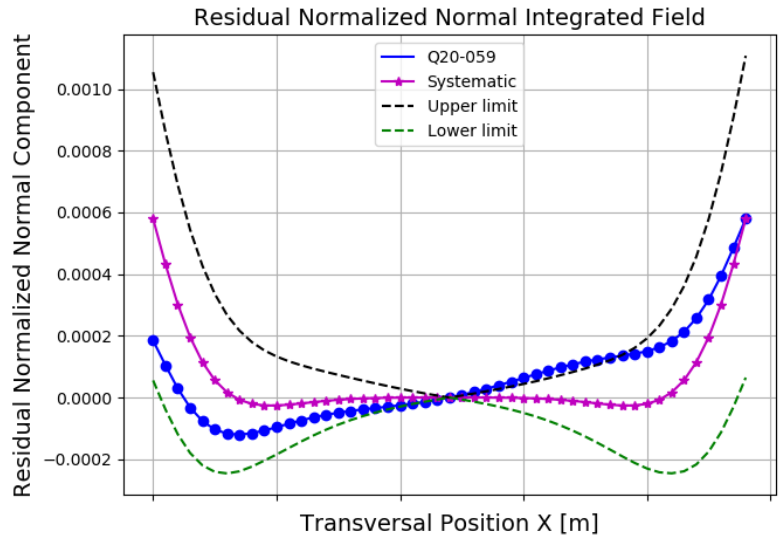


Q20-059

STORAGE RING MAGNET REPORT

Results

Date	23/05/2018
Hour	15:00:55
Temperature [°C]	23.14
Number of Measurements	9
Main Coil Current [A]	(157.3578 ± 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]	(-9.07700 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(8.90 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.57 ± 0.05)
Roll [mrad] - (< ±0.3)	(1.68 ± 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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-7.42 ± 0.02) x E-4	(-2.97 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(3.36 ± 0.04) x E-4
3 (sextupole)	(1.94 ± 0.03) x E-4	(-4.1 ± 0.3) x E-5
4	(2.90 ± 0.02) x E-4	(-3.5 ± 0.2) x E-5
5	(1.6 ± 0.3) x E-5	(7 ± 3) x E-6
6	(-8.61 ± 0.03) x E-4	(9.5 ± 0.4) x E-5
7	(-3 ± 3) x E-6	(5 ± 4) x E-6
8	(-1.2 ± 0.3) x E-5	(-2 ± 3) x E-6
9	(-1.5 ± 0.4) x E-5	(5 ± 4) x E-6
10	(1.658 ± 0.003) x E-3	(-3.4 ± 0.6) x E-5
11	(2 ± 4) x E-6	(-2 ± 5) x E-6
12	(3 ± 3) x E-6	(7 ± 2) x E-6
13	(8 ± 4) x E-6	(-4 ± 3) x E-6
14	(-6.96 ± 0.03) x E-4	(-1 ± 5) x E-6
15	(-5 ± 3) x E-6	(-1 ± 6) x E-6

