



Q20-149

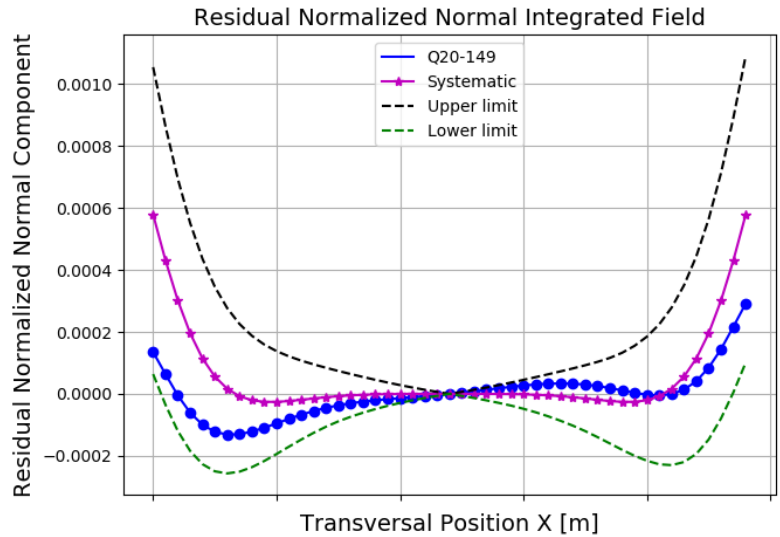
STORAGE RING MAGNET REPORT

Results

Date	08/06/2018
Hour	12:19:15
Temperature [°C]	23.13
Number of Measurements	9
Main Coil Current [A]	(157.3591 ± 0.0007)
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]	(-9.08765 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(9.05 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.04 ± 0.05)
Roll [mrad] - (< ±0.3)	(6.3 ± 0.1) × 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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-7.54 ± 0.02) × E-4	(-2.53 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000002)	(1.26 ± 0.02) × E-4
3 (sextupole)	(9.6 ± 0.2) × E-5	(6.9 ± 0.4) × E-5
4	(1.04 ± 0.03) × E-4	(-2.6 ± 0.2) × E-5
5	(-1.4 ± 0.3) × E-5	(-2.2 ± 0.4) × E-5
6	(-8.54 ± 0.04) × E-4	(8.1 ± 0.5) × E-5
7	(-2 ± 4) × E-6	(4 ± 4) × E-6
8	(2 ± 3) × E-6	(1.9 ± 33.7) × E-7
9	(-7 ± 5) × E-6	(7 ± 3) × E-6
10	(1.678 ± 0.005) × E-3	(-4.5 ± 0.2) × E-5
11	(1 ± 3) × E-6	(-2 ± 3) × E-6
12	(-3 ± 2) × E-6	(9 ± 4) × E-6
13	(4 ± 4) × E-6	(-3 ± 3) × E-6
14	(-7.13 ± 0.03) × E-4	(1.2 ± 0.4) × E-5
15	(-9.7 ± 37.5) × E-7	(-1 ± 4) × E-6

