



Q20-042

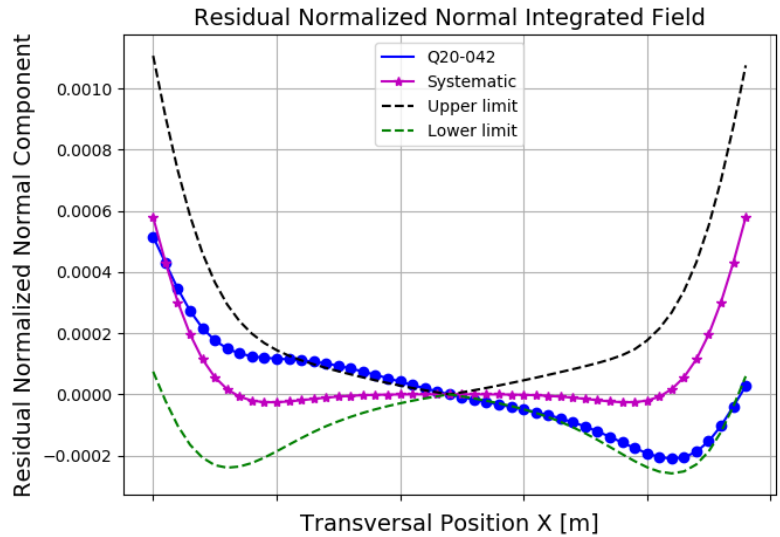
STORAGE RING MAGNET REPORT

Results

Date	18/06/2018
Hour	17:26:25
Temperature [°C]	23.73
Number of Measurements	9
Main Coil Current [A]	(157.5589 ± 0.0008)
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]	(-9.09441 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(11.71 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(-4.81 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.03 ± 0.02) × 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)	(-9.76 ± 0.02) × E-4	(4.01 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(2.06 ± 0.03) × E-4
3 (sextupole)	(-2.24 ± 0.03) × E-4	(-2.52 ± 0.02) × E-4
4	(1.68 ± 0.04) × E-4	(-2.4 ± 0.5) × E-5
5	(-3.8 ± 0.3) × E-5	(8 ± 5) × E-6
6	(-8.54 ± 0.05) × E-4	(7.7 ± 0.3) × E-5
7	(2.3 ± 0.4) × E-5	(1.2 ± 0.2) × E-5
8	(3 ± 3) × E-6	(-8 ± 4) × E-6
9	(-7 ± 3) × E-6	(3 ± 4) × E-6
10	(1.675 ± 0.004) × E-3	(-2.2 ± 0.4) × E-5
11	(-8 ± 4) × E-6	(1 ± 5) × E-6
12	(-5 ± 6) × E-6	(9 ± 4) × E-6
13	(8 ± 6) × E-6	(-4 ± 5) × E-6
14	(-7.16 ± 0.04) × E-4	(1.4 ± 0.4) × E-5
15	(2 ± 4) × E-6	(-2 ± 3) × E-6

