



Q14-070

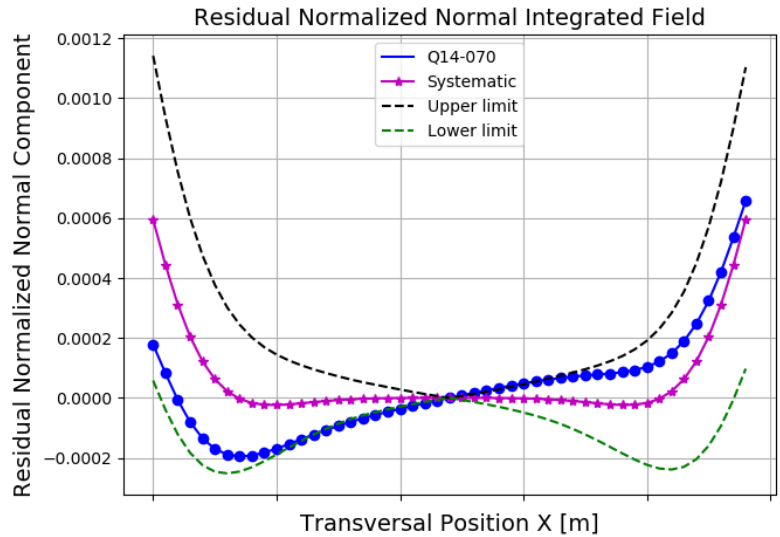
STORAGE RING MAGNET REPORT

Results

Date	06/04/2018
Hour	12:51:56
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(147.9957 ± 0.0006)
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]	(-5.23712 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(7.12 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.04 ± 0.04)
Roll [mrad] - (< ±0.3)	(-3.19 ± 0.03) x E-1

Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [mΩ]	30.3
Main Coil Number of Turns	20.0



n	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-5.94 ± 0.03) x E-4	(-8.7 ± 0.3) x E-5
2 (quadrupole)	(1.000000 ± 0.000004)	(-6.38 ± 0.05) x E-4
3 (sextupole)	(2.09 ± 0.02) x E-4	(-1.5 ± 0.3) x E-5
4	(-3.9 ± 0.2) x E-5	(-2.4 ± 0.4) x E-5
5	(2.5 ± 0.2) x E-5	(1.7 ± 0.3) x E-5
6	(-4.14 ± 0.02) x E-4	(1.8 ± 0.3) x E-5
7	(1.6 ± 0.3) x E-5	(4 ± 2) x E-6
8	(4 ± 2) x E-6	(-1 ± 3) x E-6
9	(-1.4 ± 0.4) x E-5	(-6.9 ± 19.1) x E-7
10	(1.532 ± 0.003) x E-3	(-4 ± 5) x E-6
11	(-7 ± 4) x E-6	(-7 ± 2) x E-6
12	(2 ± 2) x E-6	(9 ± 4) x E-6
13	(8 ± 3) x E-6	(-2 ± 4) x E-6
14	(-6.68 ± 0.04) x E-4	(-1.0 ± 0.2) x E-5
15	(2 ± 4) x E-6	(4 ± 3) x E-6

