



Q30-011

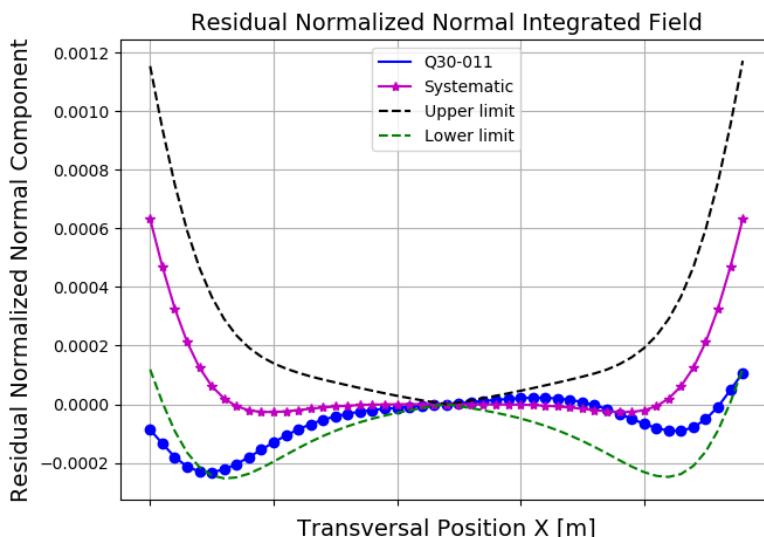
STORAGE RING MAGNET REPORT

Results

Date	02/05/2018
Hour	18:02:47
Temperature [°C]	23.49
Number of Measurements	9
Main Coil Current [A]	(154.9965 ± 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]	(-13.63312 ± 0.00003)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-13.47 ± 0.02)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(3.00 ± 0.07)
Roll [mrad] - ($< \pm 0.3$)	$(-3.27 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	9.24
Voltage [V]	7.4863
Resistance [$\text{m}\Omega$]	48.3
Main Coil Number of Turns	23.25



n	Normalized Normal Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(1.123 \pm 0.002) \times E-3$	$(-2.50 \pm 0.05) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-6.55 \pm 0.07) \times E-4$
3 (sextupole)	$(8.1 \pm 0.3) \times E-5$	$(4.55 \pm 0.05) \times E-4$
4	$(7.4 \pm 0.4) \times E-5$	$(-4.9 \pm 0.3) \times E-5$
5	$(5 \pm 3) \times E-6$	$(-6.4 \pm 0.6) \times E-5$
6	$(-1.117 \pm 0.005) \times E-3$	$(1.01 \pm 0.04) \times E-4$
7	$(1.2 \pm 0.3) \times E-5$	$(-1.4 \pm 0.7) \times E-5$
8	$(-7 \pm 4) \times E-6$	$(-4 \pm 4) \times E-6$
9	$(9 \pm 5) \times E-6$	$(6 \pm 4) \times E-6$
10	$(1.792 \pm 0.006) \times E-3$	$(-4.6 \pm 0.5) \times E-5$
11	$(-6 \pm 5) \times E-6$	$(6 \pm 6) \times E-6$
12	$(2 \pm 5) \times E-6$	$(1.1 \pm 0.5) \times E-5$
13	$(-4 \pm 6) \times E-6$	$(-3 \pm 4) \times E-6$
14	$(-7.35 \pm 0.05) \times E-4$	$(7 \pm 5) \times E-6$
15	$(1 \pm 4) \times E-6$	$(-3 \pm 4) \times E-6$

