



# Q30-005

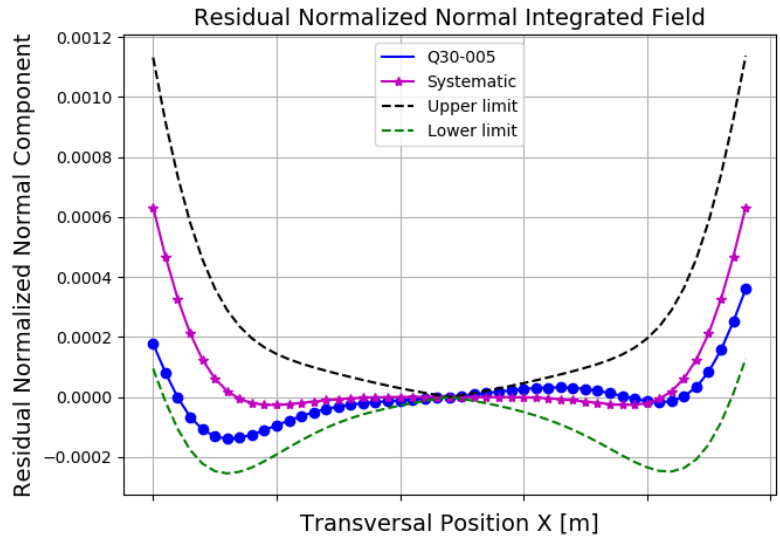
## STORAGE RING MAGNET REPORT

### Results

Date	04/05/2018
Hour	16:39:02
Temperature [°C]	23.53
Number of Measurements	9
Main Coil Current [A]	$(154.9966 \pm 0.0005)$
Trim Coil Current [A]	$(0 \pm 0)$
CH Coil Current [A]	$(0 \pm 0)$
CV Coil Current [A]	$(0 \pm 0)$
QS Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-13.64774 \pm 0.00008)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 40.0$ )	$(2.17 \pm 0.05)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 40.0$ )	$(-7.9 \pm 0.1)$
Roll [mrad] - ( $< \pm 0.3$ )	$(-2.43 \pm 0.05) \times E-1$

### 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m <sup>(2-n)</sup> ]
1 (dipole)	$(-1.81 \pm 0.04) \times E-4$	$(6.55 \pm 0.10) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000008)$	$(-4.87 \pm 0.09) \times E-4$
3 (sextupole)	$(8.8 \pm 0.4) \times E-5$	$(-1.25 \pm 0.07) \times E-4$
4	$(1.30 \pm 0.04) \times E-4$	$(-2.9 \pm 0.8) \times E-5$
5	$(-1.7 \pm 0.7) \times E-5$	$(2.1 \pm 0.7) \times E-5$
6	$(-9.77 \pm 0.06) \times E-4$	$(1.67 \pm 0.09) \times E-4$
7	$(1.4 \pm 0.5) \times E-5$	$(-5 \pm 8) \times E-6$
8	$(-4 \pm 6) \times E-6$	$(-8 \pm 7) \times E-6$
9	$(1.1 \pm 0.4) \times E-5$	$(2.2 \pm 10.2) \times E-6$
10	$(1.814 \pm 0.006) \times E-3$	$(-1.05 \pm 0.08) \times E-4$
11	$(-6 \pm 5) \times E-6$	$(6 \pm 8) \times E-6$
12	$(3 \pm 8) \times E-6$	$(1.2 \pm 0.5) \times E-5$
13	$(-4 \pm 5) \times E-6$	$(-2.1 \pm 10.9) \times E-6$
14	$(-6.98 \pm 0.06) \times E-4$	$(3.5 \pm 0.9) \times E-5$
15	$(5 \pm 8) \times E-6$	$(-3.2 \pm 76.5) \times E-7$

