



Q20-082

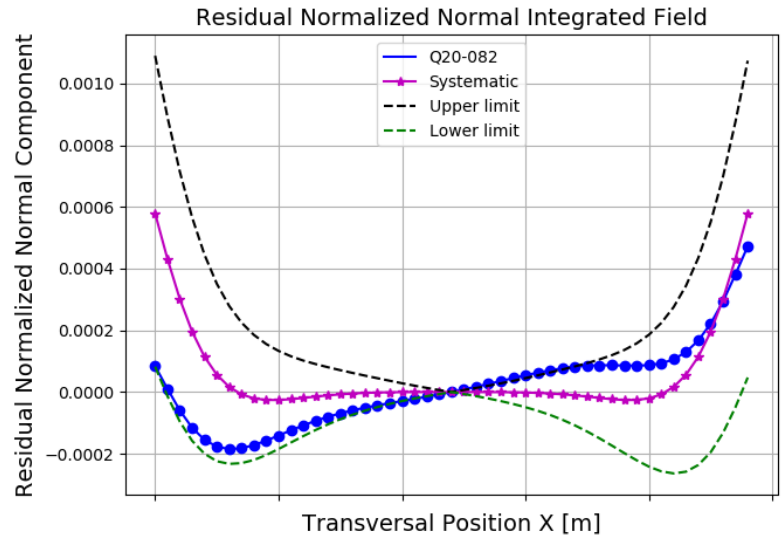
## STORAGE RING MAGNET REPORT

### Results

Date	17/05/2018
Hour	10:10:30
Temperature [°C]	23.59
Number of Measurements	9
Main Coil Current [A]	$(157.4376 \pm 0.0006)$
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]	$(-9.08106 \pm 0.00006)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 40.0$ )	$(-4.1 \pm 0.3) \times E-1$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 40.0$ )	$(1.24 \pm 0.09)$
Roll [mrad] - ( $< \pm 0.3$ )	$(-4.3 \pm 0.3) \times E-2$

### Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [ $\text{m}\Omega$ ]	34.4
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)	$(3.5 \pm 0.3) \times E-5$	$(-1.03 \pm 0.07) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000010)$	$(-8.5 \pm 0.6) \times E-5$
3 (sextupole)	$(1.95 \pm 0.09) \times E-4$	$(3.13 \pm 0.07) \times E-4$
4	$(1.41 \pm 0.07) \times E-4$	$(-4 \pm 1) \times E-5$
5	$(1.2 \pm 15.7) \times E-6$	$(-3.8 \pm 0.4) \times E-5$
6	$(-8.34 \pm 0.07) \times E-4$	$(6 \pm 2) \times E-5$
7	$(-2.8 \pm 15.5) \times E-6$	$(-2 \pm 1) \times E-5$
8	$(-1 \pm 1) \times E-5$	$(-3.3 \pm 10.5) \times E-6$
9	$(-2 \pm 7) \times E-6$	$(1 \pm 1) \times E-5$
10	$(1.69 \pm 0.02) \times E-3$	$(-3.9 \pm 0.5) \times E-5$
11	$(-3.7 \pm 12.5) \times E-6$	$(5.6 \pm 19.4) \times E-6$
12	$(9.6 \pm 12.7) \times E-6$	$(7.8 \pm 19.1) \times E-6$
13	$(-4.5 \pm 20.0) \times E-6$	$(-6.0 \pm 12.6) \times E-6$
14	$(-7.20 \pm 0.04) \times E-4$	$(2 \pm 2) \times E-5$
15	$(1 \pm 2) \times E-5$	$(-7 \pm 8) \times E-6$

