



# Q30-021

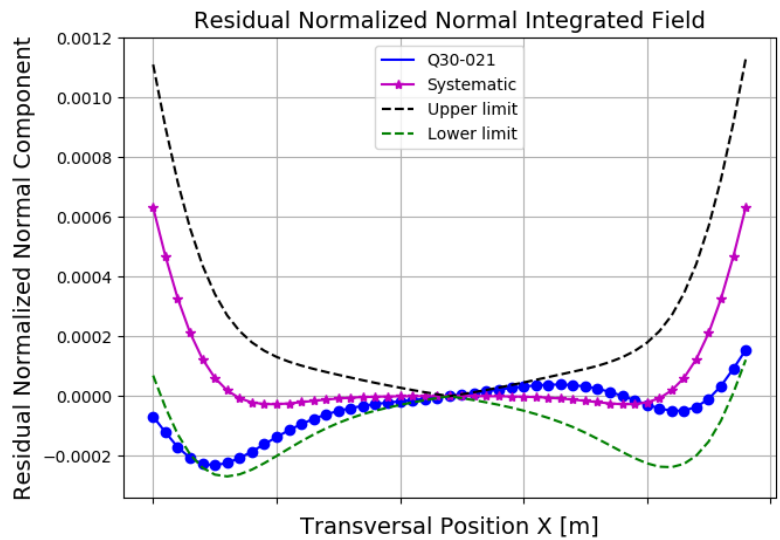
## STORAGE RING MAGNET REPORT

### Results

Date	03/05/2018
Hour	12:47:13
Temperature [°C]	22.98
Number of Measurements	9
Main Coil Current [A]	(154.9959 ± 0.0003)
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]	(-13.63584 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(7.97 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.09 ± 0.10)
Roll [mrad] - (< ±0.3)	(-3.57 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	9.24
Voltage [V]	7.4863
Resistance [mΩ]	48.3
Main Coil Number of Turns	23.25



n	Normalized Normal Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
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1 (dipole)	(-6.64 ± 0.02) × E-4	(-9.1 ± 0.8) × E-5
2 (quadrupole)	(1.000000 ± 0.000004)	(-7.14 ± 0.07) × E-4
3 (sextupole)	(1.17 ± 0.04) × E-4	(2.41 ± 0.07) × E-4
4	(1.15 ± 0.04) × E-4	(-2.1 ± 0.7) × E-5
5	(10 ± 4) × E-6	(3 ± 9) × E-6
6	(-1.109 ± 0.007) × E-3	(1.74 ± 0.08) × E-4
7	(-4 ± 5) × E-6	(-3.1 ± 65.9) × E-7
8	(-2.6 ± 0.5) × E-5	(7 ± 9) × E-6
9	(-2.9 ± 0.6) × E-5	(6 ± 6) × E-6
10	(1.765 ± 0.009) × E-3	(-1.10 ± 0.10) × E-4
11	(-4 ± 7) × E-6	(-4 ± 9) × E-6
12	(1.0 ± 0.8) × E-5	(-3.7 ± 10.1) × E-6
13	(2.2 ± 0.7) × E-5	(-8 ± 7) × E-6
14	(-7.12 ± 0.07) × E-4	(5 ± 1) × E-5
15	(-1.9 ± 60.8) × E-7	(2 ± 8) × E-6

