



Q30-007

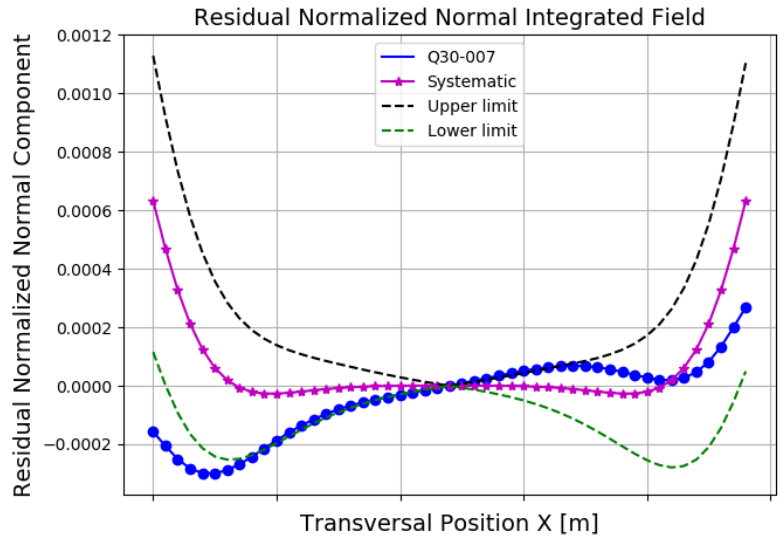
## STORAGE RING MAGNET REPORT

### Results

Date	27/04/2018
Hour	15:00:09
Temperature [°C]	23.17
Number of Measurements	9
Main Coil Current [A]	(154.9972 ± 0.0004)
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]	(-13.62711 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(-5.79 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(-5.46 ± 0.09)
Roll [mrad] - (< ±0.3)	(-2.27 ± 0.03) × 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)	(4.82 ± 0.02) × E-4	(4.55 ± 0.08) × E-4
2 (quadrupole)	(1.000000 ± 0.000002)	(-4.54 ± 0.07) × E-4
3 (sextupole)	(1.94 ± 0.03) × E-4	(5.3 ± 0.9) × E-5
4	(9.8 ± 0.4) × E-5	(-1.4 ± 0.7) × E-5
5	(2.0 ± 0.5) × E-5	(-10 ± 6) × E-6
6	(-1.080 ± 0.002) × E-3	(1.43 ± 0.05) × E-4
7	(-3 ± 4) × E-6	(-8 ± 4) × E-6
8	(-1.7 ± 0.7) × E-5	(3 ± 4) × E-6
9	(3 ± 4) × E-6	(1.3 ± 0.6) × E-5
10	(1.773 ± 0.005) × E-3	(-8.6 ± 0.9) × E-5
11	(-1.8 ± 46.7) × E-7	(6 ± 6) × E-6
12	(9 ± 7) × E-6	(1.9 ± 87.9) × E-7
13	(-4 ± 5) × E-6	(-1.1 ± 0.7) × E-5
14	(-7.28 ± 0.06) × E-4	(3.7 ± 0.8) × E-5
15	(3 ± 6) × E-6	(-6 ± 7) × E-6

