



# Q20-128

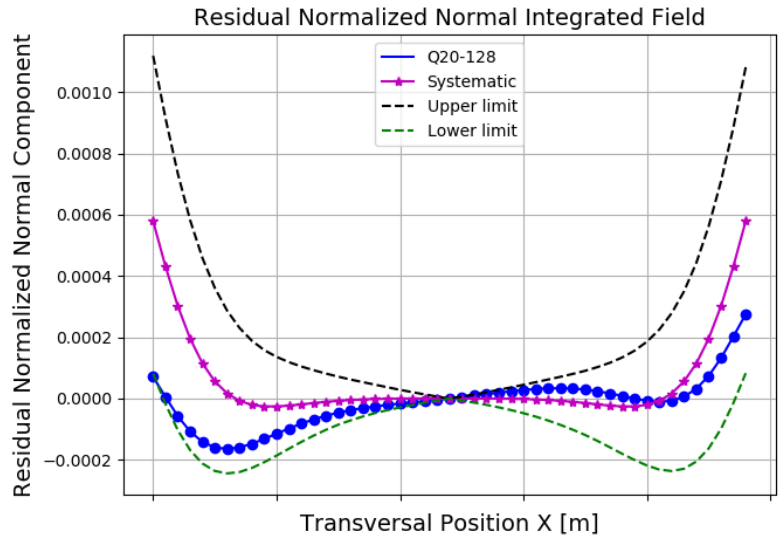
## STORAGE RING MAGNET REPORT

### Results

Date	06/06/2018
Hour	08:43:03
Temperature [°C]	23.01
Number of Measurements	9
Main Coil Current [A]	(157.5566 ± 0.0008)
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]	(-9.09195 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(11.58 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.60 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.24 ± 0.03) x E-1

### Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [mΩ]	34.4
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> ]
1 (dipole)	(-9.65 ± 0.02) x E-4	(-3.00 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(2.48 ± 0.06) x E-4
3 (sextupole)	(1.07 ± 0.02) x E-4	(2.95 ± 0.05) x E-4
4	(7.2 ± 0.4) x E-5	(-7.2 ± 0.4) x E-5
5	(-5 ± 6) x E-6	(-1.9 ± 0.3) x E-5
6	(-8.53 ± 0.04) x E-4	(7.3 ± 0.5) x E-5
7	(5 ± 3) x E-6	(-1.7 ± 0.5) x E-5
8	(-1 ± 5) x E-6	(6 ± 5) x E-6
9	(-4 ± 6) x E-6	(-2 ± 4) x E-6
10	(1.662 ± 0.006) x E-3	(-3.0 ± 0.5) x E-5
11	(-2 ± 5) x E-6	(6 ± 7) x E-6
12	(-3.1 ± 53.1) x E-7	(8 ± 6) x E-6
13	(3 ± 5) x E-6	(4 ± 5) x E-6
14	(-7.06 ± 0.03) x E-4	(-2 ± 3) x E-6
15	(-6.7 ± 48.6) x E-7	(-3 ± 5) x E-6

