



# S15-205

## STORAGE RING MAGNET REPORT

### Results

Date 19/07/2018

Hour 16:11:28

Temperature [°C] 23.578

Number of Measurements 9

Main Coil Current [A] (167.7967 ± 0.0009)

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/m] (-359.538 ± 0.008)

Magnet Center Offset X [μm] - (< ±40.0) (21.42 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (25.4 ± 0.2)

Roll [mrad] - (< ±0.3) (1.7 ± 0.1) × E-1

### Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25

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) (-5.8 ± 0.1) × E-4 (7.0 ± 0.3) × E-4

2 (quadrupole) (-3.57 ± 0.01) × E-3 (-4.23 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00003) (5.1 ± 0.4) × E-4

4 (-1.0 ± 0.2) × E-4 (-2.2 ± 0.3) × E-4

5 (3.2 ± 0.2) × E-4 (-3.1 ± 0.3) × E-4

6 (1.6 ± 0.1) × E-4 (-1 ± 2) × E-5

7 (1.6 ± 0.2) × E-4 (3 ± 2) × E-5

8 (1 ± 2) × E-5 (4 ± 2) × E-5

9 (-2.00 ± 0.02) × E-3 (4.8 ± 0.3) × E-4

10 (3 ± 2) × E-5 (7.4 ± 23.9) × E-6

11 (-3 ± 2) × E-5 (3 ± 2) × E-5

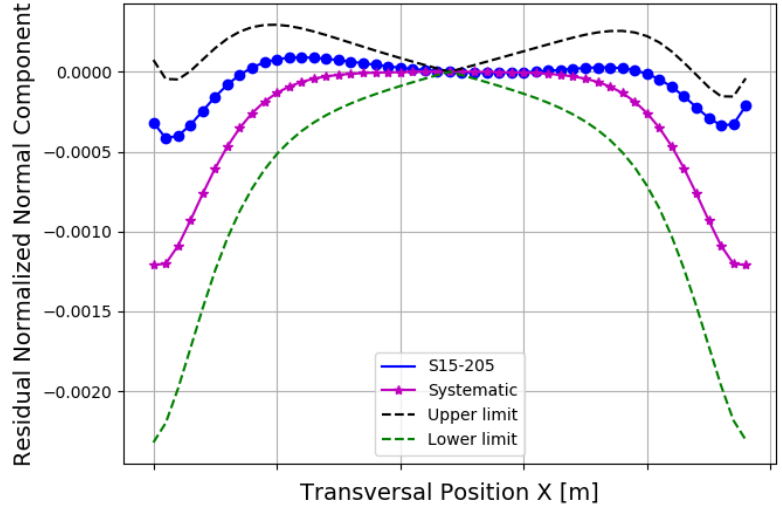
12 (4.6 ± 20.9) × E-6 (9.4 ± 21.5) × E-6

13 (-5 ± 1) × E-5 (1.3 ± 23.9) × E-6

14 (-4 ± 2) × E-5 (-5 ± 3) × E-5

15 (1.32 ± 0.02) × E-3 (-2 ± 2) × E-5

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

