



S15-229

STORAGE RING MAGNET REPORT

Results

Date 11/07/2018

Hour 12:14:59

Temperature [°C] 22.939

Number of Measurements 9

Main Coil Current [A] (167.7990 ± 0.0007)

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] (-359.938 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (12.14 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (22.56 ± 0.05)

Roll [mrad] - (< ±0.3) (8 ± 3) × E-3

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⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole) (-6.43 ± 0.04) × E-4 (-1.16 ± 0.07) × E-4

2 (quadrupole) (-2.02 ± 0.01) × E-3 (-3.760 ± 0.008) × E-3

3 (sextupole) (1.000000 ± 0.000010) (2 ± 1) × E-5

4 (3.5 ± 0.2) × E-4 (-2.5 ± 0.1) × E-4

5 (1.2 ± 0.1) × E-4 (-8 ± 1) × E-5

6 (9.1 ± 16.8) × E-6 (-2 ± 1) × E-5

7 (4 ± 3) × E-5 (3 ± 1) × E-5

8 (4 ± 1) × E-5 (3 ± 2) × E-5

9 (-2.02 ± 0.02) × E-3 (4.6 ± 0.2) × E-4

10 (-2 ± 1) × E-5 (1 ± 2) × E-5

11 (-2 ± 2) × E-5 (-1 ± 2) × E-5

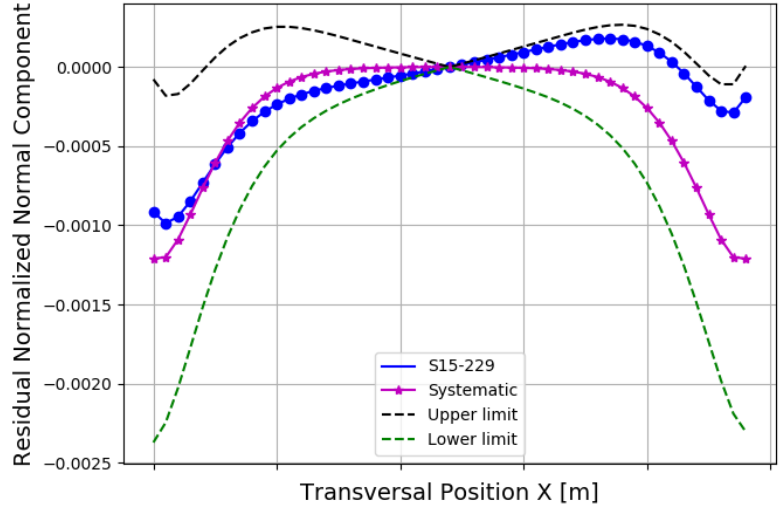
12 (-4.9 ± 17.0) × E-6 (-3 ± 2) × E-5

13 (-2 ± 2) × E-5 (9.2 ± 10.3) × E-6

14 (-9.3 ± 13.6) × E-6 (-4 ± 3) × E-5

15 (1.34 ± 0.02) × E-3 (-8 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

