

## Automorphic Forms: Arithmetic and Geometry

January 3 - February 28, 2012

Organized by: J.W. Cogdell, C. Moeglin, G. Muic, J. Schwermer

Workshop: January 9 - 20

Week 2: January 16 - 20

- **Tuesday, January 17**

**10:00 – 11:00:** Steffen Kionke

*Lefschetz numbers of involutions on the special linear group over quaternion algebras*

**11:00 – 11:30:** coffee break

**11:30 – 12:30:** Sophie Morel

*How to work with perverse sheaves*

**12:30 – 14:30:** lunch break

**14:30 – 15:30:** Kris Klosin

*Congruences among automorphic forms on symplectic and unitary groups and the Bloch-Kato conjecture*

**15:30 – 16:00** break

**16:00 – 17:00:** Fritz Hörmann

*The arithmetic volume of orthogonal Shimura varieties*

- **Thursday, January 19**

**10:00 – 11:00:** Tung-Lin Tsai

*Stability of exterior square  $\gamma$ -factors for  $GL(n)$*

**11:00 – 11:30:** coffee break

**11:30 – 12:30:** Sophie Morel

*Mixed  $\ell$ -adic complexes on varieties over  $\mathbb{Q}$*

**12:30 – 14:30:** lunch break

**14:30 – 15:30:** Dan File

*Bessel coefficients of induced representations of some classical groups*

**15:30 – 16:00** break

**16:00 – 17:00:** Goran Muić

*Cuspidal automorphic representations with many unramified components fully induced*

All lectures take place in the ESI Schrödinger Lecture Hall