Programme on

"Arithmetic Geometry and Automorphic Representations"

April 7 - May 29, 2015

organized by

Stephen S. Kudla (U Toronto), Michael Rapoport (U Bonn), Joachim Schwermer (U Vienna)

Week 4

- **Wednesday, April 29, 2015**

  10:00 – 11:00 **Jan Nekovar**
  Plectic Cohomology

  11:00 – 11:30 *coffee / tea break*

  11:30 – 12:30 **Goran Muic**
  On the Existence of Cusp Forms for Congruence Subgroups of an Almost Simple Algebraic Group over some Number Field

Abstracts

- **Jan Nekovar:** I am going to discuss some evidence for the Plectic Conjecture formulated in a joint work with Tony Scholl, as well as several potential arithmetic applications of the conjectural plectic cohomology.

- **Goran Muic:** In this talk we discuss existence of newforms among the cuspidal automorphic representations for an almost simple algebraic k–groups in the towers of congruence subgroups. We pay special attention to the case of $SL_m(k)$ where we discuss various existence results for principal congruence subgroups. This is a joint work with A. Moy.

All talks take place at the ESI, Boltzmann Lecture Hall!

Friday, May 1, 2015, is a holiday in Austria. The administrative office will be closed on that day.