

# MODULI 2007

**Dates :** September 3-7, 2007

**Place :** Faculty of Science Building # 5, Hokkaido University, Sapporo

**Website :** <http://coe.math.sci.hokudai.ac.jp/sympo/moduli2007/>

## September 3 (Monday)

**10:00-11:00** Christopher Deninger (Münster University, Germany)  
Vector bundles and  $p$ -adic representations

**11:15-12:15** Gerard van der Geer (University of Amsterdam, Holland)  
Euler characteristics of local systems on the moduli of curves and abelian varieties of low genus

**14:15-15:15** Michael Rapoport (Bonn University, Germany)  
Some questions on  $\mathcal{G}$ -bundles on curves

**15:30-16:30** Vikram B. Mehta (Tata Institute, India)  
The Frobenius morphism and principal  $G$ -bundles on affine varieties (joint work with S.Subramanian)

## September 4 (Tuesday)

**10:00-11:00** Caucher Birkar (University of Cambridge, UK)  
Minimal model program and moduli spaces

**11:15-12:15** Shigeharu Takayama (University of Tokyo, Japan)  
Boundedness of pluricanonical systems on algebraic varieties of general type

**14:15-15:15** Kota Yoshioka (Kobe University, Japan)  
Stability and the Fourier-Mukai transform

**15:30-16:30** Shigeru Mukai (Kyoto University, Japan)  
Enriques surfaces associated with bielliptic abelian surfaces

**18:00-20:00** Welcome Party at Faculty House “Trillium”(Enreiso)  
Anybody is welcome to the party. Please see our homepage for the details.

**September 5 (Wednesday)**

- 10:00-11:00** Kazuhiro Fujiwara (Nagoya University, Japan)  
Galois deformation and algebraic number theory
- 11:15-12:15** Ching-Li Chai (University of Pennsylvania, USA)  
Modular varieties and Hecke symmetry
- 14:15-15:15** Teruyoshi Yoshida (University of Cambridge, UK)  
Hecke correspondences on Shimura varieties with semistable reduction
- 15:30-16:30** Leon Takhtajan (Stony Brook University, USA)  
Eisenstein-Maass series and Chern forms on moduli spaces of curves and parabolic bundles

**September 6 (Thursday)**

- 10:00-11:00** Thomas Zink (Bielefeld University, Germany)  
New developments in the theory of displays
- 11:15-12:15** Conjeeveram S. Rajan (Tata Institute, India)  
On the irreducibility of irreducible characters of simple Lie algebras
- 14:15-15:15** Tetsushi Ito (Kyoto University, Japan)  
Hasse invariants and the  $l$ -adic cohomology of unitary Shimura varieties
- 15:30-16:30** Klaus Hulek (Hannover University, Germany)  
Intersection theory of divisors on compactifications of  $\mathcal{A}_g$
- 17:00-18:00** Tea

**September 7 (Friday)**

- 10:00-11:00** Lin Weng (Kyushu University, Japan)  
General class field theory
- 11:15-12:15** Peter Zograf (Steklov Institute, Russia)  
On the geometry of moduli spaces of meromorphic functions
- 14:15-15:15** Valery Alexeev (University of Georgia, USA)  
Extended Torelli map : old and new
- 15:30-16:30** Eduard Looijenga (University of Utrecht, Holland)  
Invariants of certain homogeneous forms as meromorphic automorphic forms
- 17:00-18:00** Tea