Explicit theory of automorphic forms, applications and computations

CIRM, Luminy, May 5--13, 2011

Organisateurs : GRITSENKO Valery, KRIEG Aloys, SKORUPPA Nils-Peter

MONDAY 9.05

9h00   Opening of the conference

9h10--10h00 Tomoyoshi Ibukiyama
Jacobi forms of degree two of index two.

10h25--11h15 Federico Pellarin
Modular forms and linear difference equations.

11h25--12h15 Kathrin Bringmann
Taylor coefficients of Mock-Jacobi forms and moments of partition statistics.

17h00--17h30 Siegfried Boecherer
On some explicit arithmetic for the space of Eisenstein series for $\Gamma_0(p)$.

17h45--18h15   Bernhard Heim
Symmetries, Borcherds lifts and applications.

18h30--19h00 Olav Richter
Kohnen's limit process for real-analytic Siegel modular forms.

TUESDAY 10.05

9h10--10h00 Tamotsu Ikeda
Kohnen plus subspace for Hilbert modular forms of half-integral weight.

10h25--11h15 Gabi Nebe
Extremal lattices.

11h25--12h15 Riccardo Salvati Manni
On Siegel threefolds with a projective Calabi--Yau model.

17h00--17h30 Rainer Schulze-Pillot
Theta series for the paramodular group.

17h45--18h15 Martin Raum
Computing with modular forms.

18h30--19h00 Henri Cohen
A generalization of Haberland's formula for computing Petersson scalar products.

WEDNESDAY 11.05

9h10--10h00 Gerard van der Geer
Modular forms for genus 3.

10h25--11h15 Cris Poor
Formal series of Jacobi forms.

11h25--12h15 Nils Scheithauer
Some constructions of modular forms for the Weil representation.

THURSDAY 12.05

9h10--10h00 Hironori Shiga
Explicit Hilbert modular forms via hierarchy of K3 surfaces.

10h25--11h15 Anton Mellit
Experimental L-functions

11h25--12h15 Hidenori Katsurada
On the period of the Hermitian Ikeda lift.

16h30--17h20 Alex Ghitza
Computing Galois representations mod p.

17h30--18h00 Stephan Ehlen
Twisted traces of CM-values of modular functions.   18h10--18h30 Haigang
Zhou Jacobi forms and sums of squares.

18h40--19h00 Andreas Henn
Even unimodular lattices with a quaternionic structure.

FRIDAY 13.05

9h10--10h00 Alexei Pantchichkine
New applications of modular distributions.

10h25--11h15 Gregory K. Sankaran
Characters of modular groups and topology of modular varieties.

11h25--12h15 Yumiko Hironaka
Spherical functions and Siegel singular series for p-adic case.

17h00--17h50 Rudolf Scharlau
Algorithmic classification of integral quadratic forms.

18h00--18h30 Lynne Walling
Eigenvalues for Siegel Eisenstein series of squarefree level.

18h40--19h10 Ramakrishnan B.
On the restriction map for Jacobi forms.