



RIMS Workshop

Automorphic Forms, Automorphic L-functions and Related Topics

Main organizer : Shuichi Hayashida (Joetsu University of Education)

Sub-organizer : Shoyu Nagaoka (Kinki University)

Date : February 1 (Mon.) - 5 (Fri.), 2016.

Venue : Room 420, Research Institute of Mathematical Science, Kyoto University.

Feb. 1 (Mon.)

13:30 – 14:30 **Taku Ishii** (Seikei University)

Whittaker functions on $\mathrm{Sp}(2, \mathbb{R})$ and archimedean zeta integrals.

14:45 – 15:45 **Yosuke Irie** (Kyushu University)

Loxodromic Eisenstein Series for Cofinite Kleinian Groups.

16:00 – 17:00 **Ben Kane** (University of Hong Kong)

Meromorphic modular forms and polar harmonic Maass forms.

Feb. 2 (Tue.)

9:45 – 10:45 **Takashi Ichikawa** (Saga University)

Algebraic theory of nearly holomorphic modular forms.

11:00 – 12:00 **Yumiko Hironaka** (Waseda University/RIMS)

Harmonic analysis on the space of p -adic unitary hermitian matrices
– unified description including dyadic case.

13:30 – 14:30 **Koichi Takase** (Miyagi University of Education)

On regular irreducible characters of hyperspecial compact groups.

14:45 – 15:45 **Guangshi Lyu** (Shandong University)

Orthogonality between additive characters and Fourier coefficients of
cusp forms.

16:00 – 17:00 **Solomon Friedberg** (Boston College)

Eisenstein series on covering groups, crystal graphs, and canonical bases.

Feb. 3 (Wed.)

9:20 – 9:40 On the RIMS workshop next academic year.

9:45 – 10:45 **Siegfried Boecherer** (University of Mannheim)
On the kernel of the theta operators mod p .

11:00 – 12:00 **Ren-He Su** (Kyoto University)
The Kohnen plus space and Jacobi forms.

13:30 – 14:30 **Nils-Peter Skoruppa** (University of Siegen)
Modules of Jacobi forms of lattice index.

14:45 – 15:45 **Tomoyoshi Ibukiyama** (Osaka University)
Universal differential operators on Siegel modular forms.

16:00 – 17:00 **Neil Dummigan** (University of Sheffield)
Eisenstein congruences and endoscopic lifts.

18:00 – Dinner Party.

Feb. 4 (Thu.)

9:45 – 10:45 **Shunsuke Yamana** (Kyoto University)
On the lifting of Hilbert cusp forms to Hilbert-Siegel cusp forms.

11:00 – 12:00 **Shunsuke Yamana** (Kyoto University)
On the lifting of Hilbert cusp forms to Hilbert-Hermitian cusp forms.

13:30 – 14:30 **Yasuhiko Ikematsu** (Kyushu University)
Local theta lift for $U(2) \times U(3)$.

14:45 – 15:45 **Neven Grbac** (University of Rijeka)
Eisenstein cohomology, automorphic L-functions and Franke filtration.

16:00 – 17:00 **Kazunari Sugiyama** (Chiba Institute of Technology)
Maass forms arising from certain prehomogeneous zeta functions in two variables.

Feb. 5 (Fri.)

9:45 – 10:45 **Tamotsu Ikeda** (Kyoto University), **Hidenori Katsurada** (Muroran Institute of Technology)
Explicit formula for the Siegel series of a quadratic form over non-archimedean local field.

11:00 – 12:00 **Hiro-aki Narita** (Kumamoto University)
Maass's converse theorem and a lifting construction of automorphic forms on real hyperbolic spaces.