



RIMS Workshop

Analytic, geometric and p -adic aspects of automorphic forms and L -functions

Main organizer : Shunsuke Yamana (Kyoto University)

Sub-organizer : Takuya Yamauchi (Tohoku University)

Date : January 20 (Mon.) - 24 (Fri.), 2020.

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

Jan. 20 (Mon.)

12:30 – 13:30 **Kazuki Morimoto** (Kobe University)

On Gan-Gross-Prasad conjecture for $(U(2n), U(1))$ and $(SO(5), SO(2))$.

13:40 – 14:40 **Bingchen Lin** (Sichuan University)

Archimedean non-vanishing and cohomological test vector.

14:50 – 15:50 **Zheng Liu** (University of California, Santa Barbara)

Doubling archimedean zeta integrals for symplectic and unitary groups.

16:00 – 17:00 **Tadashi Miyazaki** (Kitasato University)

Recurrence relations for archimedean Rankin-Selberg integrals.

Jan. 21 (Tue.)

9:30 – 10:30 **Kazuaki Tajima** (National Institute of Technology, Sendai College)

On the GIT stratification of prehomogeneous vector spaces.

10:45 – 11:45 **Hiro-aki Narita** (Waseda University)

Fourier-Jacobi expansion of non-holomorphic real analytic cusp forms on $Sp(2; \mathbb{R})$.

13:30 – 14:30 **Seiji Kuga** (Kyushu University)

On linear relations for special L -values over certain totally real number fields.

14:45 – 15:45 **Yota Maeda** (Kyoto University)

On the modularity of special cycles on orthogonal Shimura varieties.

16:00 – 17:00 **Hang Xue** (University of Arizona)

Towards a factorization of linear periods.

Jan. 22 (Wed.)

9:20 – 9:30 On the RIMS workshop next academic year.

9:30 – 10:30 **Tadashi Ochiai** (Osaka University)

Endoscopic congruences and adjoint L -values for $\mathrm{GSp}(4)$.

10:45 – 11:45 **Ming-Lun Hsieh** (National Taiwan University)

On anticyclotomic p -adic L -functions for Hilbert modular forms and their non-vanishing.

13:30 – 14:30 **Kenichi Namikawa** (Kyushu University)

A construction of p -adic Asai L -functions and related topics.

14:45 – 15:45 **Ameya Pitale** (University of Oklahoma)

Maass forms on $\mathrm{GL}(2)$ over division quaternion algebras of discriminant p .

16:00 – 17:00 **Kengo Fukunaga** (Osaka University)

Triple product p -adic L -function attached to p -adic families of modular forms.

18:00 – Dinner Party.

Jan. 23 (Thu.)

9:30 – 10:30 **Ramla Abdellatif** (Université de Picardie Jules Verne)

Restriction of p -modular representations of p -adic groups to minimal parabolic subgroups.

10:45 – 11:45 **Vincent Sécherre** (Université de Versailles Saint-Quentin)

Congruence properties of endo-classes and the local Jacquet-Langlands correspondence.

13:30 – 14:30 **Yuki Yamamoto** (University of Tokyo)

On the types for supercuspidal representations of inner forms of GL_N .

14:45 – 15:45 **Winfried Kohnen** (Heidelberg University)

On Fourier coefficients of modular forms of half-integral weight

16:00 – 17:00 **Keiichi Gunji** (Chiba Institute of Technology)

On the Fourier coefficients of Siegel Eisenstein series of odd level and the genus theta series.

Jan. 24 (Fri.)

9:10 – 10:10 **Biplab Paul** (Kyushu University)

Growth of Petersson inner products of Fourier-Jacobi coefficients of Siegel cusp forms.

10:20 – 11:20 **Akihiko Yukie** (Kyoto University)

On the density theorem related to the space of non-split tri-Hermitian forms.

11:30 – 12:30 **Ibukiyama Tomoyoshi** (Osaka University)

Pullback formulas and applications.