



# RIMS conference “ Automorphic form, automorphic $L$ -functions and related topics ”

Organizers : Kazuki Morimoto(Kobe University)  
Tadashi Miyazaki(Kitasato University)

Date : Jan. 24(Mon.) P.M. - Jan. 28(Fri.) A.M. 2022

Venue : Zoom (Online Only )

## Jan. 24 (Mon.)

13:20 – 14:20 **Shingo Sugiyama** (Nihon University)

On a weighted density of low-lying zeros of symmetric power  $L$ -functions

14:35 – 15:35 **Seiji Kuga** (Kyushu University)

A resolvent trace formula of Jacquet-Zagier type for Hilbert Maass forms

15:50 – 16:50 **Kohta Gejima** (Osaka City University Advanced Mathematical Institute)

Inner product formula for Shintani lift

## Jan. 25 (Tue.)

9:45 – 10:45 **Miki Hirano** (Ehime University), **Taku Ishii** (Seikei University),  
**Tadashi Miyazaki** (Kitasato University)

Whittaker functions on  $GL(4, \mathbb{R})$  and archimedean zeta integrals

11:00 – 12:00 **Hiroaki Narita** (Waseda University)

An explicit construction of CAP forms on  $O(1,5)$  for the case of any definite quaternion algebras

13:20 – 14:20 **Seidai Yasuda** (Hokkaido University)

Local newforms for the general linear groups

14:35 – 15:35 **Nozomi Ito** (Kyoto University)

On branching laws of Speh representations and local zeta integrals

15:50 – 16:50 (IST 8:50-9:50) **Maxim Gurevich** (Technion- Israel Institute of Technology)

On finite-length smooth representations of  $p$ -adic  $GL_n$

Jan. 26 (Wed.)

9:45 – 10:45 **Hiroataka Kakuham**a (Kyoto University)

Local theta correspondences for quaternionic dual pairs and Langlands parameters

11:00 – 12:00 (10:00 - 11:00 in Singapore time) **Lei Zhang** (National University of Singapore)

The unramified computation of Bessel model cases

13:20 – 14:20 **Shuji Horinaga** (Tokyo University of Science)

On the algebraicity of critical  $L$  values attached to vector valued Siegel cusp forms

14:35 – 15:35 (13:35 - 14:35 in Taiwan time) **Shih-Yu Chen** (Institute of Mathematics, Academia Sinica)

On Deligne's conjecture for symmetric fifth  $L$ -functions of modular forms

15:35 – 16:00 **On the RIMS workshop next academic year. (Japanese Only)**

Jan. 27 (Thu.)

9:45 – 10:45 **Yuya Murakami** (Tohoku University)

Quantum modularity of quantum invariants of non-Seifert manifolds

11:00 – 12:00 **Toshiki Matsusaka** (Nagoya University)

Modular transformation formulas for homological blocks

13:20 – 14:20 **Kazuma Ohara** (The University of Tokyo)

Hecke algebras for tame supercuspidal types

14:35 – 15:35 **Masao Oi** (Kyoto University, Hakubi Center)

On Iwahori-Hecke algebras and local  $L$ -factors of unramified representations

15:50 – 16:50 (UTC 6:50-7:50) **Abhishek Saha** (Queen Mary University of London)

The Manin constant and  $p$ -adic bounds on denominators of the Fourier coefficients of newforms at cusps

Jan. 28 (Fri.)

9:45 – 10:45 **Yuichi Sakai** (Multiple Zeta Research Center, Kyushu University)

Modular linear differential equations and generalized Rankin-Cohen brackets

11:00 – 12:00 **Shin-ya Koyama** (Toyo University)

Chebyshev's Bias for Ramanujan's  $\tau$ -function via the Deep Riemann Hypothesis