

RIMS Workshop

Algebraic Number Theory and Related Topics

Organizers:

Manabu Ozaki (Waseda University)

Iwao Kimura (Toyama University)

Date: December 9 (Mon)– December 13 (Fri), 2019

Place: Room 420, Research Institute for Mathematical Sciences (RIMS),
Kyoto University, Kyoto 606-8502, JAPAN

December 9 (Mon)

10:15 – 10:30 Introduction

10:30 – 11:20 Shunsuke Yamana (Osaka City University)

Exceptional zeros of p -adic L -functions

11:35 – 12:35 Kenichi Namikawa* (Kyushu University)

Recent developments on Iwasawa theory for Asai representations

14:00 – 14:50 Yoshihiro Ônishi (Meijo University)

Vanishing elliptic Gauss sums and Bernoulli-Hurwitz type numbers

15:05 – 15:55 Masahiro Mine (Tokyo Institute of Technology)

Densities of cubic fields under some conditions on L -values

16:10 – 17:00 Kota Yamamoto (Nagoya Institute of Technology)

On iterated extensions of number fields by quadratic rational maps

December 10 (Tue)

10:00 – 10:50 Hikaru Hirano (Kyushu University)

On abelian arithmetic Chern-Simons invariants for certain real quadratic number fields

11:05 – 12:05 Jun Ueki* (Tokyo Denki University)

Chebotarev link and idelic class field theory

13:30 – 14:20 Minoru Hirose (Kyushu University)

Generalized double zeta values and modular forms

14:35 – 15:25 Nobuo Sato (Kyushu University)

On Deligne type basis for alternating multiple zeta values and the structure of the motivic Galois group of the mixed Tate motives over $\mathbb{Z}[1/2]$.

15:40 – 16:30 Kenichi Bannai (Keio University/RIKEN)

On the Shintani Generating Class of Algebraic Tori Associated to Totally Real Fields

December 11 (Wed)

- 9:30 – 10:20 Noriko Hirata-Kohno (Nihon University)
Recent Developments on Polylogarithms Conjecture
- 10:35 – 11:25 Yoshiaki Okumura (Tokyo Institute of Technology)
On \mathbb{Q} -virtual Drinfeld modules and Drinfeld modular curves
- 11:40 – 12:40 Seidai Yasuda* (Osaka University)
The Langlands correspondence for global function fields after Vincent Lafforgue
- 12:40 – Meeting of the steering committee (mainly for the committee members)

December 12 (Thu)

- 10:00 – 10:50 Kazuki Yamada (Keio University)
Rigid analytic reconstruction of Hyodo-Kato theory
- 11:05 – 12:05 Teruhisa Koshikawa* (RIMS)
Recent developments in integral p -adic Hodge theory
- 13:30 – 14:20 Yuya Murakami (Tohoku University)
Continuity of the values of j -function at real quadratic points and its extension
- 14:35 – 15:25 Yuki Yamamoto (University of Tokyo)
On the types for supercuspidal representations of inner forms of GL_N
- 15:40 – 16:30 Yoshiyasu Ozeki (Kanagawa University)
Torsion of algebraic groups and Lubin-Tate extensions
- 18:00 – 20:00 Conference Banquet

December 13 (Fri)

- 10:00 – 10:50 Kazumi Kasaura (University of Tokyo)
On extension of overconvergent log isocrystals on log smooth varieties
- 11:05 – 12:05 Shun Ohkubo* (Nagoya University)
Logarithmic growth filtrations for (φ, ∇) -modules over the bounded Robba ring
- 13:30 – 14:20 Daichi Takeuchi (University of Tokyo)
Characteristic epsilon cycles of l -adic sheaves on varieties
- 14:35 – 15:25 Benjamin Collas (University of Bayreuth/RIMS)
Arithmetic and motives for moduli stacks of curves
- 15:40 – 16:30 Ippei Nagamachi (University of Tokyo)
On the Hom version of the Grothendieck Conjecture for hyperbolic polycurves of dimension 2
- 16:30 – 16:40 Closing

* Invited speakers

Program Committee:

Manabu Ozaki (Waseda University),
Iwao Kimura (Toyama University),
Naoki Imai (University of Tokyo)