Algebraic Number Theory and Related Topics

Date: December 8–12, 2008
Place: Room 420, RIMS, Kyoto University

Organizers: Hiroaki Nakamura (Okayama University)
Takashi Ichikawa (Saga University)

December 8 (Mon)

10:00 – 10:50   Yuichiro Taguchi (Kyushu University)
Introduction to Serre's modularity conjecture on Galois representations, I

11:10 – 12:00   Seidai Yasuda (Kyoto University, RIMS)
Introduction to Serre's modularity conjecture on Galois representations, II

13:30 – 14:20   Yoshiyuki Tomiyama (Kyushu University)
Lifting Galois representations over arbitrary number fields

14:40 – 15:30   Naoki Imai (University of Tokyo)
Kisin conjecture on the moduli spaces of finite flat models

16:10 – 17:00   Toshiro Hiranouchi (Kyoto University, RIMS)
Ramification of truncated discrete valuation rings
    (joint work with Yuichiro Taguchi)

December 9 (Tue)

10:00 – 10:50   Moritz Kerz (University of Regensburg)
Topology of higher idele class groups

11:10 – 12:00   Marc-Hubert Nicole (Université Paris 7 Denis Diderot)
Purity of stratifications of Shimura varieties

13:30 – 14:20   Tetsushi Ito (Kyoto University)
On the l-adic cohomology of Siegel threefolds in characteristic p

14:40 – 15:30   Yuichiro Hoshi (Kyoto University, RIMS)
On the combinatorial cuspidalizations and the faithfulness of the outer Galois representations of hyperbolic curves
    (joint work with Shinichi Mochizuki)

16:10 – 17:00   Masao Ooi (Kyoto University)
Center-freeness of absolute Galois groups of some fields

December 10 (Wed)

10:00 – 10:50   Masanari Kida (University of Electro-Communications)
Computing algebraic structures with MAGMA

11:10 – 12:00   Tatsushi Tanaka (Kyushu University)
Algebraic interpretation of Kawashima relation for multiple zeta
values and its applications

December 11 (Thu)

10:00 – 10:50   Yoshihiro Ishikawa (Okayama University)
Ramification theory of automorphic representations – introduction
to JPSS theory –

11:10 – 12:00   Tadashi Miyazaki (University of Tokyo)
Fourier expansions of the Eisenstein series on $GL(3, \mathbb{R})$ attached to
elliptic cusp forms

13:30 – 14:20   Lin Weng (Kyushu University)
Stability and Arithmetic

14:40 – 15:30   Tomoyoshi Ibukiyama (Osaka University)
Type numbers of quarternion hermitian lattices, quinary quadratic
forms, and supersingular abelian varieties

16:10 – 17:00   Yasutaka Ihara
On L functions over function fields
(joint work with Kohji Matsumoto)

December 12 (Fri)

10:00 – 10:50   Shuji Yamamoto (University of Tokyo)
On Shintani's ray class invariant for totally real number fields

11:10 – 12:00   Takeo Okazaki (Kyoto University)
Construction of p-adic measures for automorphic L-functions of
$GL(2)$ and $GSp(2)$

13:30 – 14:20   Olivier Fouquet (Osaka University)
Dihedral Iwasawa theory of quaternionic automorphic forms

14:40 – 15:30   Takashi Hara (University of Tokyo)
Iwasawa theory of totally real fields for certain non-commutative
p-extensions

16:10 – 17:00   Tadashi Ochiai (Osaka University)
Iwasawa theory for nearly ordinary deformations of Hilbert modular
forms

Program committee members: Hiroaki Nakamura (Okayama University)
Takashi Ichikawa (Saga University)
Kazuo Matsuno (Tsuda College)