Program of RIMS Workshop
Algebraic Number Theory and Related Topics

Organizers:
Atsushi Shiho (University of Tokyo)
Tadashi Ochiai (Osaka University)

Date: December 3 (Mon) $\sim$ December 7 (Fri), 2012
Place: Room 420, RIMS, Kyoto University

December 3 (Mon)

$10:00 \sim 10:15$ Introduction

$10:15 \sim 11:00$ Tatsuya Ohshita (Kyoto University)
Higher Fitting ideals of Iwasawa modules and Euler systems

$11:15 \sim 12:00$ Jiro Nomura (Keio University)
On non-commutative Brumer-Stark conjecture

$13:30 \sim 14:30$ Tomokazu Kashio (Tokyo University of Science)
A survey on Stark's conjectures and a result of Dasgupta-Darmon-Pollack (Survey Talk)

$14:45 \sim 15:45$ Somnath Jha (Osaka University)
Fine Selmer group of Hida deformations

$16:00 \sim 17:00$ Masataka Chida (Kyoto University)
Anticyclotomic p-adic L-functions for modular forms

December 4 (Tue)

$9:00 \sim 9:45$ Tomoki Mihara (University of Tokyo)
Singular homologies of non-archimedean analytic spaces and integrals along cycles

$10:00 \sim 10:45$ Kazuki Tokimoto (University of Tokyo)
On the reduction modulo p of representations of a quaternion division algebra
over a p-adic field

$11:00 \sim 12:00$ Takahiro Tsushima (Kyushu University)
Geometric realization of the local Langlands correspondence for representations
of conductor exponent three

$13:30 \sim 14:30$ Seidai Yasuda (Osaka University)
Recent progress on multiple zeta values and Deligne-Ihara conjecture (Survey Talk)

$14:45 \sim 15:45$ Chieh-Yu Chang (National Tsing Hua University)
Linear independence of monomials of multizeta values in positive characteristic

$16:00 \sim 17:00$ Alan G. B. Lauder (University of Oxford/Kyushu University)
Elliptic curves and p-adic L-functions

December 5 (Wed)

9:00 ∼ 9:45   Yohei Toda (Chuo University)
    On the cyclotomic twisted torus and some torsors

10:00 ∼ 11:00   Akinari Hoshi (Rikkyo University)
    Rationality problem of quasi-monomial actions

11:15 ∼ 12:15   Wen-Ching Winnie Li
        (Pennsylvania State University/National Tsing Hua University)
    The impact of computing on noncongruence modular forms

13:45 ∼ 14:45   Naotake Takao (RIMS, Kyoto University)
    Oda's problem on universal monodromy representations and related topics

15:00 ∼ 16:00   Shinichi Mochizuki (RIMS, Kyoto University)
    Invitation to Inter-universal Teichmüller Theory

December 6 (Thu)

9:00 ∼ 9:45   Tomohiro Nagasaka (Kyoto University)
    Cohomology calculus in logarithmic geometry

10:00 ∼ 10:45   Tetsuya Uematsu (University of Tokyo)
    On the Brauer groups of diagonal cubic surfaces

11:00 ∼ 12:00   Toshiro Hiranouchi (Hiroshima University)
    Milnor type K-groups attached to algebraic groups and additive higher Chow groups

13:30 ∼ 14:30   Satoshi Mochizuki (Chuo University)
    A geometric presentation theorem

14:45 ∼ 15:45   Yuki Kato (Tohoku Gakuin University)
    The Adams operation on group complete symmetric monoidal ∞-categories

16:00 ∼ 17:00   Thomas Geisser (Nagoya University)
    Suslin homology, Albanese varieties and Rojtman's theorem

18:00 ∼ 20:00   Conference Banquet

December 7 (Fri)

9:00 ∼ 9:45   Yasuhiro Ishitsuka (Kyoto University)
    Complete Intersections of Two Quadrics and Galois Cohomology

10:00 ∼ 10:45   Megumi Takata (Kyushu University)
    On the Lefschetz trace formula for p^n-torsion etale cohomology

11:00 ∼ 12:00   Noriko Hirata-Kohno (Nihon University)
    Polylogarithms revisited from the viewpoint of the irrationality

13:30 ∼ 14:30   Kenichi Namikawa (National Taiwan University)
    On constructions of theta functions on $GSp(4)$ and its mod p nonvanishing

14:45 ∼ 15:45   Takashi Taniguchi (Kobe University)
    Counting cubic extensions over a number field

16:00 ∼ 17:00   Masami Ohta (Professor emeritus, Tokai University)
    Rational torsion in modular Jacobian varieties

Program Committee:
Atsushi Shiho (Univ. of Tokyo), Tadashi Ochiai (Osaka Univ.), Noriyuki Otsubo (Chiba Univ.)