

Algebraic Number Theory and Related Topics

Date: December 10-14, 2007

Place: Room 420, RIMS, Kyoto University

Organizers: Mamoru Asada (Kyoto Institute of Technology)
Hiroaki Nakamura (Okayama University)

December 10 (Mon)

- 10:00-10:50 Akio Tamagawa (Kyoto University, RIMS)
Torsion of abelian schemes and rational points on moduli spaces
(joint work with Anna Cadoret)
- 11:10-12:00 Shinya Harada (Kyushu University)
Smallness of fundamental groups for arithmetic schemes
(joint work with Toshiro Hiranouchi)
- 13:30-14:20 Kentaro Nakamura (University of Tokyo)
Classification of two dimensional trianguline representations
- 14:40-15:40 Kenichi Bannai (Nagoya University)
 p -adic elliptic polylogarithm and the two-variable p -adic L -function
for CM elliptic curves
- 16:10-17:00 Tomoyuki Abe (University of Tokyo)
Comparison between Swan conductors and characteristic cycles

December 11 (Tue)

- 10:00-10:50 Yoichi Mieda (University of Tokyo)
Cycle classes, Lefschetz trace formula and integrality for p -adic cohomology
- 11:10-12:00 Atsushi Shiho (University of Tokyo)
On the overconvergence of relative rigid cohomology
- 13:30-14:20 Mohamed Saïdi (University of Exeter)
A survey on the anabelian geometry of hyperbolic curves over finite fields
- 14:40-15:40 Alexander Schmidt (University of Regensburg)
Rings of integers of type $K(\pi, 1)$
- 16:10-17:00 Christopher Rasmussen (Kyoto University, RIMS)
A finiteness result for abelian varieties with constrained prime power torsion

December 12 (Wed)

- 10:00-10:50 Noriyuki Suwa (Chuo University)
Around Kummer theories
- 11:10-12:00 Youichi Koyama (Kanazawa Institute of Technology),
Ken-ichi Yoshino (Kanazawa Medical University)
On the prime divisors of the class numbers of the real p^r th cyclotomic fields

December 13 (Thu)

- 10:00-10:50 Tsuyoshi Itoh (Ritsumeikan University)
Unramified extensions and geometric \mathbf{Z}_p -extensions of global function fields
- 11:10-12:00 Masanori Asakura (Kyushu University)
Local units are generated by certain cyclotomic units
- 13:30-14:20 Takahiro Tsushima (University of Tokyo)
The Localization of the Characteristic Class of an l -adic sheaf and the Conductor formula
- 14:40-15:40 Yasuo Motoda (Yatsushiro National College of Technology),
Toru Nakahara, Tsuyoshi Uehara (Saga University),
Shah Syed Inayat Ali (University of Peshawar)
On a Problem of Hasse
- 16:10-17:00 Toru Komatsu (Sophia University)
Construction of cyclic number fields with prime degree and their Frobenius automorphisms

December 14 (Fri)

- 10:00-10:50 Yasuhiro Kishi (Fukuoka University of Education)
An infinite family of imaginary quadratic fields with class number divisible by 5
- 11:10-12:00 Akinari Hoshi (Waseda University)
A geometric framework for the subfield problem of generic polynomials via Tschirnhausen transformation
(joint work with Katsuya Miyake)
- 13:30-14:20 Hidetaka Kitayama (Osaka University)
Inverse Galois problem for an extension of $PSp(2, F_3)$
- 14:40-15:40 Hironori Shiga (Chiba University)
Arithmetic-Geometric means and some related theories
- 16:10-17:00 Ki-ichiro Hashimoto, Yukiko Sakai (Waseda University)
On generic family of genus 2 curves with $\sqrt{2}$ -multiplication

Program committee members: Mamoru Asada, Hiroaki Nakamura,
Hiroki Takahashi (University of Tokushima)