

Japan-Korea Joint Seminar on Number Theory and Related Topics 2014

supported by JSPS and NRF

Date: November 19th - November 22nd in 2014.

Venue: Keio University Faculty of Science and Technology, Yagami Campus.

Program

November 19 (Wed.)

- 09:25-09:30 Opening remarks
- 09:30-10:20 Morisawa, Takayuki (Tokyo University of Science)
Class Numbers in \mathbb{Z}_S -extensions of $\mathbb{Q}(\sqrt{-1})$ with restricted ramification
- 10:40-11:30 Lee, Jun Ho (KIAS)
On the unit groups of some orders generated by units
- 11:50-12:40 Miura, Takashi (National Institute of Technology, Tsuruoka College)
On the Fitting ideals of the ideal class groups of non-cyclic abelian CM-extensions
- (†Poster session) Lunch
- 14:20-15:10 Hirose, Minoru (Kyoto University)
The partial derivatives of abelian L-functions at $s=0$ and refinement of Stark conjecture
- 15:30-16:20 Sano, Takamichi (Keio University)
On arithmetic properties of Rubin-Stark elements
- 16:40-17:30 Moon, Hyunsuk (Kyungpook National University)
On the invariant $M(A/K, n)$ of Chen-Kuan for Galois representations
- (†Poster session)

November 20 (Thu.)

- 09:30-10:20 Ha, Junsoo (KIAS)
Smooth Polynomial solutions to $X + Y = Z$ over finite fields
- 10:40-11:30 Jeong, Sangtae (Inha University)
Criteria of measure-preservation for 1-Lipschitz functions on $\mathbb{F}_q[[T]]$ in terms of van der Put basis and its applications
- 11:50-12:40 Park, Jeehoon (POSTECH)
Batalin-Vilkoviski algebra for hypersurfaces and period integrals
- (†Poster session) Lunch
- 14:20-15:10 Lee, Dong Uk (IBS, Center for Geometry and Physics)
Nonemptiness of Newton strata of Shimura varieties of Hodge type
- 15:30-16:20 Shin, Donghwa (Hankuk University of Foreign Studies)
Generation of class fields by using the Weber function
- 16:40-17:30 Onishi, Yoshihiro (Meijo University)
New addition formulae for Weierstrass elliptic functions and for higher genus Abelian functions
- (†Poster session) ††Banquet

November 21 (Fri.)

- 09:30-10:20 Sato, Nobuo (Kyoto University)
A refinement of Zagier's conjecture for imaginary quadratic fields
- 10:40-11:30 Yamamoto, Shuji (Keio University)
On Kawashima's functions
- 11:50-12:40 Lee, Jungyun (Ewha Womans University)
Indivisibility of class numbers of real quadratic function fields
- (†Poster session) Lunch
- 14:20-15:10 Jun, Byungheup (Yonsei University)
Todd series for nonreduced cones, \mathbb{Q} -invariance and its application to Fukuhara-Yui conjecture
- 15:30-16:20 Yamana, Shunsuke (Kyushu University)
Poles of the twisted exterior cube L-functions for $GL(6)$
- 16:40-17:30 Narita, Hiro-aki (Kumamoto University)
Lifting to an inner form of $GL(4)$ and counterexamples of the Ramanujan conjecture
- 17:50-18:40 Choi, Dohoon (Korea Aerospace University)
Quantum modular forms and Eichler-Shimura cohomology theory
- (†Poster session)

November 22 (Sat.)

- 09:30-10:20 Lee, Yoonbok (Incheon National University)
Simple zeros of primitive Dirichlet L-functions and the asymptotic large sieve (Joint work with Chandee, Liu and Radziwill)
- 10:40-11:30 Otsubo, Noriyuki (Chiba University)
CM regulators, values of L-functions and hypergeometric functions
- 11:50-12:40 Chida, Masataka (Kyoto University)
Regulators and special values of Rankin-Selberg L-functions
- (†Poster session) Closing remarks

Notes

† There will be a poster session each day. The detail information will be announced on the web page <http://www.rs.tus.ac.jp/a25594/JKNT2014e.html>.

†† There will be Conference dinner on November 20th. Please let me know by November 13th if you would like to attend.

Organizers

Kashio, Tomokazu (Tokyo University of Science),
Sun, Hae-Sang (Chungbuk National University),
Bannai, Kenichi (Keio University),
Mizusawa, Yasushi (Nagoya Institute of Technology),
Taguchi, Yuichiro (Kyushu University),
Yamagami, Atsushi (Soka University)