Analytic Number Theory and Related Topics *

Date : October 15 (Tue) 10:15 – October 18 (Fri) 16:05, 2019
Place : Room 420, Research Institute for Mathematical Sciences (RIMS)
Kyoto University, Kyoto, JAPAN
Organizers : Masatoshi Suzuki (Tokyo Institute of Technology)
Takashi Nakamura (Tokyo University of Science)

Program

October 15 (Tue)

10:15 – 10:25 Opening

10:25 – 10:55 **Masahiro Mine** (Tokyo Institute of Technology)
Discrete value-distributions for families of automorphic L-functions

11:10 – 11:50 **Masanori Katsurada** (Keio University)
Asymptotic expansions associated with a non-holomorphic Eisenstein series of two complex variables
(joint work with Takumi Noda)

13:30 – 14:00 **Junhyeong Kim** (Kyushu University)
Leafwise-cohomological expression of dynamical zeta functions on foliated dynamical systems

14:15 – 14:55 **Hiroki Takahasi** (Keio University)
Large deviation principle for arithmetic mean of continued fraction digits

15:15 – 15:45 **Hirotaka Kobayashi** (Nagoya University)
On a certain sum of derivatives of Dirichlet L-functions

16:00 – 16:40 **Ade Irma Suriajaya** (Kyushu University)
Improved error estimate for the number of zeros of the derivatives of the Riemann zeta function
(joint work with Fan Ge)

October 16 (Wed)

9:30 – 10:10 **Tomokazu Onozuka** (Kyushu University)
Sum formula and Ohno's relation for the multiple zeta functions
(joint work with Minoru Hirose and Hideki Murahara)

10:25 – 10:55 **Yoshitaka Sasaki** (Osaka University of Health and Sport Sciences)
On evaluations of multiple zeta values at non-positive integers

11:10 – 11:50 **Tatsushi Tanaka** (Kyoto Sangyo University)
Rooted tree maps for multiple zeta values and for multiple L-values
(partly joint work with Noriko Wakabayashi)

13:30 – 14:00 **Shota Inoue** (Nagoya University)
A relation between the zero distribution of the Riemann zeta-function and a Dirichlet polynomial for the prime numbers

14:15 – 14:45 **Kenta Endo** (Nagoya University)
On the value distribution of iterated integrals of the logarithm of the Riemann zeta-function
(joint work with Shota Inoue)

* This workshop is partially supported by RIMS and JSPS KAKENHI Grant Number JP17K05163.

15:05 – 15:45 **Takao Komatsu** (Zhejiang Sci-Tech University)
Some generalizations of harmonic numbers and their applications

16:00 – 16:50 **Shaofang Hong** (Sichuan University)
On the p-adic behaviors of Stirling numbers of the first and second kinds

17:30 – 19:30 Reception party at *Camphora* on the campus of Kyoto University

October 17 (Thu)

9:30 – 10:00 **Wataru Takeda** (Nagoya University)
Brocard–Ramanujan problem for irreducble polynomials

10:15 – 10:55 **Yuta Suzuki** (Nagoya University)
On even-odd amicable pairs

11:10 – 11:50 **Koichi Kawada** (Iwate University)
On sums of cubes of primes and an almost prime
(joint work with Lilu Zhao)

13:30 – 14:00 **Hiroaki Ito** (University of Tsukuba)
Statistical properties of negative continued fractions

14:15 – 15:05 **Sanoli Gun** (The Institute of Mathematical Sciences)
On zeros of modular forms
(joint work with Joseph Oesterle)

15:25 – 15:55 **Seiji Kuga** (Kyushu University)
The locations of zeros of certain weakly holomorphic modular forms
(joint work with Seiichi Hanamoto)

16:10 – 16:50 **Eren Mehmet Kıral** (Sophia Univesity)
A parametrization of higher rank Kloosterman sums
(joint work with Maki Nakasuji)

October 18 (Fri)

9:30 – 10:00 **Haruki Ide** (Keio University)
Algebraic independence of the values of a certain entire function of two variables and its partial derivatives

10:15 – 10:55 **Makoto Kawashima** (Osaka University)
Linear independence of values of polylogarithm functions
(joint work with Sinnou David and Noriko Hirata-Kohno)

11:10 – 11:50 **Iekata Shiokawa** (Keio University)
Irrationality exponents of certain alternating series

13:30 – 14:00 **Yusuke Tanuma** (Keio University)
Algebraic independence of certain series related to integral parts of integral multiples of a real number

14:15 – 15:05 **Wadim Zudilin** (Radboud University Nijmegen)
A method of creative microscoping

15:20 – 15:50 **Kota Saito** (Nagoya University)
On relations between Szemerédi's theorem and fractal dimensions of sets which do not contain weak arithmetic progressions

15:55 – 16:05 Closing