

Workshop

Analytic Number Theory – Distribution and Approximation of Arithmetic Objects

Period : October 29 (Wed) – October 31 (Fri), 2014

Place : Room 420, Research Institute for Mathematical Sciences,
Kyoto University, Kyoto, JAPAN

Organizers : Hirofumi Nagoshi (Gunma University)

Yuichi Kamiya (Daito Bunka University)

October 29 (Wed)

09:35 – 09:45 Opening

09:45 – 10:15 Jeongwon Min (Tokyo Institute of Technology)

Vanishing of Witten L -functions and products of conjugacy classes

10:25 – 11:05 Yukio Ohkubo (The International University of Kagoshima)

Distribution modulo one of certain sequences

11:15 – 12:00 Keiju Sono (Tokyo Denki University)

The distribution of zeros of primitive Dirichlet L -functions near the real axis

13:30 – 14:15 Masatoshi Suzuki (Tokyo Institute of Technology)

Nearest neighbor spacing distributions for zeros of the real part of the Riemann ξ -function lying on vertical lines

14:25 – 15:05 Ade Irma Suriajaya (Nagoya University)

On the zeros of the derivatives of the Riemann zeta function under the Riemann hypothesis

15:20 – 15:50 Tomohiro Yamada (Osaka University)

Odd perfect numbers of the form $p^\alpha M^{2\beta}$

16:00 – 16:40 Yoshinori Hamahata (Okayama University of Science)

Mean values of Goss L -functions and Dedekind sums

October 30 (Thu)

09:10 – 09:40 Takafumi Miyazaki (Nihon University)

On an exponential equation concerning Pythagorean numbers with congruence relations

09:50 – 10:30 Tünde Kovács (Nihon University / University of Debrecen)

On the Nagell-Ljunggren equation

- 10:40 – 11:25 István Mező (Nanjing University of Information Science and Technology)
Some recent developments in the theory of Stirling numbers
- 11:35 – 12:15 Takao Komatsu (Wuhan University)
Higher-order convolution identities for Cauchy numbers
- 13:45 – 14:15 Takahiro Wakasa (Hachinohe National College of Technology)
An explicit upper bound of the argument of the Dirichlet L -functions on the generalized Riemann hypothesis
- 14:25 – 15:05 Łukasz Pańkowski (Adam Mickiewicz University / Nagoya University)
Extreme values for L -functions from the Selberg class
- 15:20 – 16:10 Yasufumi Hashimoto (University of the Ryukyus)
On multiplicities of length spectra for congruence subgroups
- 16:20 – 16:55 Hiroyuki Ogawa (Osaka University)
Congruence conditional prime distributions

October 31 (Fri)

- 09:10 – 09:40 Tomohiro Ooto (University of Tsukuba)
A transcendence criterion with p -adic continued fractions
- 09:50 – 10:30 Hajime Kaneko (University of Tsukuba)
Arithmetical properties of p -adic numbers related to numerical systems
- 10:40 – 11:20 Yuichi Kamiya (Daito Bunka University)
Digital sum problems for generalized code systems
- 11:30 – 12:15 Yu Yasufuku (Nihon University)
Uniform boundedness of S -units in orbits
- 13:45 – 14:30 Masanori Katsurada (Keio University), Takumi Noda (Nihon University)
Transformation formulae and asymptotic expansions for double holomorphic Eisenstein series of two complex variables
- 14:40 – 15:10 Takashi Nakamura (The University of Tokyo)
Real zeros of Hurwitz-Lerch zeta and Hurwitz-Lerch type of Euler-Zagier double zeta functions
- 15:20 – 15:50 Kaneaki Matsuoka (Nagoya University), Soichi Ikeda (Nagoya University)
Mean values and zeros of the multiple zeta functions
- 16:00 – 16:30 Tomokazu Onozuka (Nagoya University)
Functional equation for the Mordell-Tornheim multiple zeta-function
- 16:30 – 16:35 Closing