# Analytic Number Theory and Surrounding Areas

Date: 29 Sep. - 3 Oct.
Place: RIMS (Research Institute of Mathematical Science) Kyoto, JAPAN
Organizer: Shigeki AKIYAMA (Niigata Univ.)

Program

Monday 29 Sep.

10:00 − 10:50    Michio Ozeki (Yamagata Univ.)
                 Mass formula for the Jacobi weight enumerators of type II codes
                 and some relationships of it with Jacobi forms

11:00 − 11:50    Winfried Kohnen (Univ. Heidelberg · Germany)
                 Estimating Fourier coefficients of Siegel modular forms


13:30 − 14:00    Takao Komatsu (Hirosaki Univ.)
                 From continued fractions to real numbers

14:00 − 14:30    Yukio Ohkubo (Inter. Univ. Kagoshima)
                 On the discrepancy of the sequences $(n\alpha + f(n))$

14:30 − 15:00    Rie Natsui (Keio Univ.)
                 Principal convergents and mediant convergents
                 associated to $\alpha$-continued fractions


15:30 − 16:00    Yumiko Ichihara (Waseda Univ. · JSPS)
                 The convergence of $L$-functions associated with Hilbert cusp form

16:00 − 16:30    Takaaki Tanaka (Keio Univ.)
                 Algebraic independence of certain power series
                 associated with $d$-adic expansion of real numbers

Tuesday 30 Sep.

9:00 − 9:50      Masanobu Kaneko (Kyushu Univ.)
On modular forms satisfying a certain differential equation

10:00 − 10:50    Edward Burger (Williams College · USA)
On a question of Davenport and a quantitative refinement
of the Markoff Spectrum

11:00 − 11:40    Shigeru Kanemitsu (Kinki Univ.), Yoshio Tanigawa (Nagoya Univ. ),
Haruo Tsukada (Kinki Univ.), Masami Yoshimoto (Nagoya Univ. · JSPS)
An application of zeta functions

13:30 − 14:20    Noriko Hirata-Kohno (Nihon Univ.)
Linear forms in $p$-adic logarithms and $abc$ conjecture

14:30 − 15:00    Hidehiko Mishou (Nagoya Univ.), Hirofumi Nagoshi (Niigata Univ. · JSPS)
On value distribution of quadratic $L$-functions

15:30 − 16:00    Yuichi Kamiya (Nagoya Univ. · JSPS)
On spectrums of certain harmonic functions
attached to the Riemann zeta-function

16:00 − 16:30    Takeshi Kurosawa (NTT SI Lab.)
Arithmetic properties of reciprocal sums of binary recurrences

16:45 − 17:15    Chiharu Kaminishi (Keio Univ.)
Estimates of automorphic L-functions in the d-aspect

17:15 − 18:00    Jun'ichi Tamura
A new approach to higher dimensional continued fractions

Wednesday 1 Oct.

9:00 − 9:50      Okazaki Ryotaro (Doshisha Univ)
Counting integer points by Baker theory and basic math

10:00 − 10:50    Attila Pethő (Debrecen Univ. · Hungary)
Generalized radix representations and dynamical systems

11:00 − 11:50    Yoichi Motohashi (Nihon Univ. )
A Vista of Mean Zeta Values, Part 2

Afternoon      Free Time

Thursday 2 Oct.

| | |
|---|---|
| $9:00-9:50$ | Stéphane Louboutin (Univ. Caen · France) |
| | Effective bounds for Zeta and $L$-functions, |
| | with applications to the Brauer-Siegel theorem |
| $10:00-10:50$ | Gilles Lachaud (CNRS · France) |
| | Eisenstein series and the Riemann Hypothesis |
| $11:00-11:30$ | Shin'ichiro Okada (Keio Univ.), Iekata Shiokawa (Keio Univ.) |
| | $<q,r>$ number system and algebraic independence |

| | |
|---|---|
| $13:30-14:20$ | Shunji Ito (Kanazawa Univ.) |
| | Purely periodic beta expansions with Pisot basis |
| $14:30-15:00$ | Leo Murata (Meijigakuin Univ.), Koji Chinen (Osaka Inst. Tech.) |
| | On a distribution property of the residual order of $a(\mathrm{mod} p)$, IV |

| | |
|---|---|
| $15:30-16:00$ | Yoshiyuki Kitaoka (Meijo Univ.), Michihiro Nozaki (ChitaHigashi High School) |
| | A conjecture on decimal expansions of rational numbers |
| $16:00-16:30$ | Asako Nakamura (Keio Univ.) |
| | Dirichlet's prime number theorem for $PGL$ over function fields |

| | |
|---|---|
| $17:00-17:30$ | Ryuuta Hashimoto (Nagoya Univ.) |
| | On the continued fraction of roots of trinomials |
| $17:30-18:00$ | Kenji Nagasaka (Hosei Univ.) |
| | Sound-image processing and applied systems |

Friday 3 Oct.

| | |
|---|---|
| $10:00-10:50$ | Kohji Matsumoto (Nagoya Univ.) |
| | Mean values of automorphic $L$-functions attached to Doi-Naganuma and Ikeda lifts |
| $11:00-11:50$ | Laurent Habsieger (CNRS · France) |
| | Combinatorics and moments of $L$-function |

| | |
|---|---|
| $13:30-14:00$ | Koichi Kawada (Iwate Univ.) |
| | On sums of cubes of primes |
| $14:00-14:30$ | Masami Yoshimoto (Nagoya Univ. · JSPS) |
| | On the square mean of $L(1,\chi)$ with respect to characters |
| $14:30-15:00$ | Hitoshi Nakada (Keio Univ.) |
| | On non-archimedean metric diophantine approximations |

| | |
|---|---|
| $15:30-16:00$ | Yohei Tachiya (Keio Univ.) |
| | Irrationality of a certain Lambert series |
| $16:00-16:30$ | Hideaki Ishikawa (Niigata Univ.) |
| | On a difference between values of $L(1/2+it,\chi_j)$ and $L(1/2+it,\chi_k)$ |