

Diophantine Analysis and Related Fields 2015

March 5–7, 2015

Meeting Room 1, 4th Floor, Kiryu City Performing Arts Center

Organizers:

Shigeki Akiyama (*Tsukuba Univ.*)

Masaaki Amou (*Gunma Univ.*)

Ryotaro Okazaki

Masanori Katsurada (*Keio Univ.*)

Takao Komatsu (*Wuhan Univ.*)

Noriko Hirata-Kohno (*Nihon Univ.*)

PROGRAM

Thursday 5 March

13:35–13:40 Opening

13:40–14:30 Takafumi Miyazaki (Nihon Univ.)
A polynomial-exponential Diophantine equation related to the sum of consecutive k -th powers

14:40–15:20 Tomohiro Ooto (Tsukuba Univ.)
Quadratic approximation of continued fractions with low complexity in $F_q((T^{-1}))$

15:40–16:30 Takumi Noda (Nihon Univ.)
Confluent hypergeometric type Ramanujan's formulas

16:40–17:30 Yasutsugu Fujita (Nihon Univ.)
Bounds for Diophantine quintuples

Friday 6 March

9:30–10:10 Jonathan Caalim (Tsukuba Univ.)
Rotational beta expansion: Ergodicity and Soficness

10:20–11:10 Yu Yasufuku (Nihon Univ.)
Logarithmic Kodaira dimension and Diophantine equations

11:20–12:10 Masanori Katsurada (Keio Univ.)
Asymptotic expansions for the Laplace-Mellin and Riemann-Liouville transforms of Lerch zeta-functions

- 14:00–14:50 Hajime Kaneko (Tsukuba Univ.)
On the beta-expansions of algebraic numbers by a Pisot or Salem number β
- 15:00–15:40 Junya Iwaki (Gunma Univ.)
Linear independence measures for the values of certain Mahler functions
- 16:00–16:40 Akinari Goto (Keio Univ.), Takaaki Tanaka (Keio Univ.)
Algebraic independence of the values of Mahler functions in a certain case of positive characteristic
- 16:50–17:40 Makoto Kawashima (Osaka Univ.)
Linear independence of values of certain p -adic functions

Saturday 7 March

- 9:30–10:20 Hirofumi Nagoshi (Gunma Univ.)
The existence of zeros of non-primitive L -functions for $SL(2, \mathbb{Z})$ in the strip $1/2 < \Re s < 1$
- 10:40–11:30 Takao Komatsu (Wuhan Univ.)
Associate and restricted Stirling numbers and their applications
- 11:30–11:35 Closing