

Diophantine Analysis and Related Fields 2018

- 期間: 2018年3月1日 (木) – 3月3日 (土)
[**Period:** From Thursday 1 March to Saturday 3 March, 2018]
- 会場: 慶應義塾大学 日吉キャンパス 来往舎 2階 大会議室
[**Location:** Large Conference Room, *Raiosha*, Hiyoshi Campus, Keio Univ. (Yokohama, Japan)]
- 世話人: 秋山 茂樹 (筑波大学), 天羽 雅昭 (群馬大学), 平田 典子 (日本大学理工学部), 桂田 昌紀 (慶應義塾大学経済学部), 岡崎 龍太郎 (東京大学非常勤講師), 田中 孝明 (慶應義塾大学理工学部)
[**Organizers:** Shigeki Akiyama (Tsukuba Univ.), Masaaki Amou (Gunma Univ.), Noriko Hirata-Kohno (Nihon Univ.), Masanori Katsurada (Keio Univ.), Ryotaro Okazaki, Takaaki Tanaka (Keio Univ.)]
- 本研究集会はJSPS科研費15K04792, 15K17522, 17K05182 などにより一部助成を受けております。
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プログラム

Program

3月1日 (木) [Thursday 1 March]

- 10:10 – 10:15 Opening
- 10:15 – 11:05 Daniel Duverney (Baggio Engineering School, France)
Irrationality of the sums of certain series of reciprocals of Fibonacci numbers
- 11:20 – 12:20 Yuri Nesterenko (Moscow State Univ.)
G-functions and algebraic independence
- 14:10 – 15:10 Federico Pellarin (Univ. of Saint-Etienne)
From modular forms to algebraic independence
- 15:25 – 16:05 金子 元 (筑波大学) [Hajime Kaneko (Univ. of Tsukuba)]
On the digital expansion of algebraic numbers (a joint work with Makoto Kawashima (Osaka Univ.))
- 16:15 – 16:50 宮之原 永士 (早稲田大学) [Eiji Miyanojara (Waseda Univ.)]
Transcendence of the series generated by a generalized Rudin-Shapiro sequence
- 17:05 – 17:35 安富 真一 (東邦大学) [Shin-ichi Yasutomi (Toho Univ.)]
Certain multidimension p -adic continued fraction algorithm and cubic numbers

3月2日 (金) [Friday 2 March]

- 10:20 — 10:50 川島 誠 (大阪大学) [Makoto Kawashima (Osaka Univ.)]
Linear independence of special values of logarithm revisited (a joint work with
Noriko Hirata-Kohno (Nihon Univ.))
- 11:00 — 12:00 Chieh-Yu Chang (National Tsing Hua Univ.)
Periods, logarithms and multiple zeta values
- 14:00 — 15:00 Pietro Corvaja (Univ. of Udine)
Betti maps of sections of abelian schemes and functional transcendence
- 15:15 — 16:00 安福 悠 (日本大学) [Yu Yasufuku (Nihon Univ.)]
Integral points in one- and two-parameter orbits
- 16:10 — 16:45 佐野 薫 (京都大学) [Kaoru Sano (Kyoto Univ.)]
The arithmetic degrees for self-morphisms on semi-abelian varieties (a joint work
with Yohsuke Matsuzawa (Univ. of Tokyo))
- 17:00 — 18:00 Wade Hindes (City Univ. of New York)
Prime divisors in orbits and Galois groups of iterates
- 18:20 — 20:20 懇親会 (来往舎 ファカルティラウンジ)
[Reception (Faculty Lounge, Hiyoshi Campus)]

3月3日 (土) [Saturday 3 March]

- 10:20 — 10:55 山田 智宏 (大阪大学) [Tomohiro Yamada (Osaka Univ.)]
A diophantine equation related to odd perfect numbers
- 11:05 — 11:45 鈴木 雄太 (名古屋大学) [Yuta Suzuki (Nagoya Univ.)]
On relatively prime amicable pairs
- 12:00 — 12:50 永田 誠 (大阪薬科大学)
[Makoto Nagata (Osaka Univ. of Pharmaceutical Sciences)]
Stochastic models related to lattice points of a right-angled triangle:
on the fluctuations in the number of points
- 12:50 — 13:00 Closing

以上