Diophantine Analysis and Related Fields 2023

世話人
秋山 茂樹 (筑波大学), 天羽 雅昭 (群馬大学),
桂田 昌紀 (慶應義塾大学), 田中 孝明 (慶應義塾大学),
平田 典子 (日本大学), 村田 玲音 (明治学院大学)

会場責任者
江居宏美 (弘前大学), 立谷洋平 (弘前大学)

Organizers
Shigeki Akiyama (Univ. Tsukuba), Masaaki Amou (Gunma Univ.),
Masanori Katsurada (Keio Univ.), Taka-aki Tanaka (Keio Univ.),
Noriko Hirata-Kohno (Nihon Univ.), Leo Murata (Meiji Gakuin Univ.)

Local Organizers
Hiromi Ei (Hirosaki Univ.), Yohei Tachiya (Hirosaki Univ.)

記

日時: 2023 年 3 月 3 日 (金) 14:30 – 3 月 5 日 (日) 12:30
場所: 弘前大学 文京町キャンパス 理工学部 2 号館 2 階 第 11 講義室

Date: March 3 (Fri) 14:30 – March 5 (Sun) 12:30, 2023
Place: Room 11, 2nd Floor, Faculty of Science and Technology Bldg. No. 2,
Bunkyo-cho Campus, Hirosaki University, Japan

プログラム

3 月 3 日 (金) [Friday 3rd March]

14:20–14:30　　開会 [Opening]

14:30–15:20　　**István Pink** (Univ. Debrecen)
Number of solutions to a special type of unit equations
in two unknowns II

15:40-16:30　　川田 浩一 (岩手大学) [**Koichi Kawada** (Iwate Univ.)]
An overview of the Waring-Goldbach problem

16:50-17:30　　鷲尾 勇介 (日本大学) [**Yusuke Washio** (Nihon Univ.)]
A linear independence measure of polylogarithms relying
on Padé approximation

3 月 4 日 (土) [Saturday 4th March]

9:30-10:20   **Daniel Duverney** (Baggio Engineering School)
Sylvester sequence, irrationality and transcendence

10:40-11:30   **Dong Han Kim** (Dongguk Univ.)
The Markoff spectrum on the Hecke group

11:50-12:30   井手 春希, 田中 孝明 (慶應義塾大学) [**Haruki Ide, Taka-aki Tanaka** (Keio Univ.)]
Mahler's method for algebraic independence of partial
derivatives of certain series in several variables

14:30-15:20   **Damien Jamet** (Univ. Lorraine)
On a probabilistic extension of the Oldenburger-Kolakoski sequence

15:40-16:20   伊藤 弘明 (筑波大学) [**Hiroaki Ito** (Univ. Tsukuba)]
Symmetry of continued fraction algorithms

16:40-17:20   齋藤 耕太 (筑波大学) [**Kota Saito** (Univ. Tsukuba)]
Finiteness of solutions of Diophantine equations on
Piatetski-Shapiro sequences

3 月 5 日 (日) [Sunday 5th March]

9:30-10:20   **Pierre Popoli** (Univ. Lorraine)
On the binary digits of n and n^2

10:40-11:30   川島 誠 (日本大学) [**Makoto Kawashima** (Nihon Univ.)]
On arithmetic properties of hypergeometric functions

11:50-12:30   **Fan Wen** (Univ. Tsukuba)
Hausdorff dimension on Markoff-Lagrange problem

12:30–12:40   閉会 [Closing]