Diophantine Analysis and Related Fields 2019

2019 年 3 月 7–9 日 [7–9, March, 2019]
筑波大学 自然学系棟 D509
D509, Institute of Mathematics, University of Tsukuba

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Hiroshi Mikawa (Tsukuba Univ.), Hajime Kaneko (Tsukuba Univ.)

3 月 7 日 (木) [Thursday 7th March]

10:00–10:50   川島 誠 (大阪大学) [**Makoto Kawashima** (Osaka University)]
Linear independence measures for values of power of logarithm functions

11:00-11:50   **Alan Filipin** (University of Zagreb)
A polynomial variant of the problem of Diophantus

14:00-14:50   藤田 育嗣 (日本大学) [**Yasutsugu Fujita** (Nihon University)]
(joint work with Florian Luca)
Non-existence of Diophantine quadruples consisting of Fibonacci numbers

15:00-15:50   **Thomas Stoll** (Université de Lorraine)
The sum of digits in two different bases

16:00-16:50   阿部 隆次 (東京工芸大学) [**Ryuji Abe** (Tokyo Polytechnic University)]
Markoff spectrum and arithmetic Fricke groups

17:00-17:50   塩川 宇賢 (慶應義塾大学) [**Iekata Shiokawa** (Keio University)]
(joint work with Daniel Duverney and Takeshi Kurosawa)
Irrationality exponents of certain sums of rational numbers

3 月 8 日 (金) [Friday 8th March]

9:00-9:50　**立谷 洋平** (弘前大学) [**Yohei Tachiya** (Hirosaki University)]
Refinement of Chowla-Erdős method and arithmetical properties of
certain Lambert series

10:00-10:50　**Dong Han Kim** (Dongguk University)
On the set of inhomogeneous Diophantine approximations

11:00-11:50　**釜江 哲朗** (大阪市立大学) [**Teturo Kamae** (Osaka City University)]
Normal numbers as configurations on $\mathbb{N}^2$

14:00-14:50　**Alan Haynes** (University of Houston)
Diophantine approximation and diffraction from quasicrystals

15:00-15:50　**戸次 鵬人** (東京大学) [**Hohto Bekki** (The University of Tokyo)]
On the geodesic continued fraction and its periodicity

16:00-16:50　**Arnaldo Nogueira** (Institut de Mathématiques de Marseille)
On the action of the semigroup of non singular integral matrices
on $\mathbb{R}^n$

17:00-17:50　**井手 春希** (慶應義塾大学) [**Haruki Ide** (Keio University)]
Algebraic independence of the values and the partial derivatives
of a certain entire function of two variables

3 月 9 日 (土) [Saturday 9th March]

10:00-10:50　**大音 智弘** (テクノスデータサイエンス・エンジニアリング株式会社)
[**Tomohiro Ooto** (Tecnos Data Science Engineering)]
Diophantine exponents for hyperquadratic continued fractions

11:00-11:50　**宮崎 隆史** (群馬大学) [**Takafumi Miyazaki** (Gunma University)]
Application of cubic residue theory to a special type of unit equation
concerning Eisenstein triples

12:00-12:50　**金子 元** (筑波大学) [**Hajime Kaneko** (University of Tsukuba)]
Analogy of the Lagrange spectrum for powers of quadratic Pisot units