Diophantine Analysis and Related Fields 2013

Dates: From Tuesday 8 January to Wednesday 9 January, 2013

Location: Nihon Universty, College of Science and Technology (Rikou-Gakubu)

Conference Room: Room 142, 4th Floor, Building No.1, Suruga-dai Campus, College of Science and Technology, Nihon University

Organizers: Shigeki AKIYAMA (Tsukuba University), Masaaki AMOU (Gunma University), Masanori KATSURADA (Keio University), Takao KOMATSU (Hirosaki University), Ryotaro OKAZAKI (Doshisha University), Noriko HIRATA-Kohno (Nihon University/local organizer)

Program

Tuesday 8 January

9:45-9:50	Opening
9:50-10:50	Shigeki AKIYAMA (Tsukuba University) Height reducing problem of algebraic numbers
11:00-12:00	Tünde KOVÁCS (University of Debrecen) Perfect powers in arithmetic progressions
12:00-14:00	Lunch break
14:00-14:50	Koichi KAWADA (Iwate University) Relations between densities of exceptional sets in Waring's problem
15:00-15:40	Hajime KANEKO (Nihon University, JSPS) Transcendence of the values of power series at certain algebraic points
16:00-16:40	Takafumi MIYAZAKI (Tokyo Metropolitan University, JSPS) The Diophantine equation $(an-1)^x + n^y = (an+1)^z$
16:50-17:30	Makoto KAWASHIMA (Osaka University) Irrationality of the values of the Lerch function $\Phi_s(x, z)$
17:40-18:10	Masaru ITO (Tokyo Institute of Technology) Optimization for lattices and Diophantine approximations
18:20-19:30	Reception party

Wednesday 9 January

9:50-10:40	Yu YASUFUKU (Nihon University) Exponential Diophantine Equations and Dynamical Mordell–Lang
10:50-11:50	Thomas TUCKER (University of Rochester) Integral points in orbits and the Bang-Zsigmondy problem
11:50-13:50	Lunch break
13:50-14:40	Yoshinori HAMAHATA (Ritsumeikan University) Values of Dedekind sums for function fields
14:50-15:40	Hiroshi MIKAWA (Tsukuba University) Large gaps between Hardy-Littlewood numbers
16:00-16:40	Ken KAMANO (Osaka Institute of Technology) Analytic continuation of the Lucas zeta function
16:50-17:30	Takao KOMATSU (Hirosaki University) Sums of products of Cauchy numbers, including generalized poly-Cauchy numbers
17:30-17:35	Closing

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