

Thermodynamic Formalism: Non-additive Aspects and Related Topics

15.05.2023 – 19.05.2023 | Będlewo, Poland

Sunday, May 14th

17:45 *conference bus from Poznań Główny Railway Station*

19:00 *dinner*

Monday, May 15th

- 8:00 *breakfast*
- 9:00 - 9:45 **Ronnie Pavlov** (*University of Denver*)
Uniqueness of measure of maximal entropy for subshifts with few forbidden words
- 9:55 - 10:40 **Vaughn Climenhaga** (*University of Houston*)
Specification for non-compact systems
- 10:40 - 11:10 *coffee break*
- 11:10 - 11:40 **Laura Breikopf** (*University of Bremen*)
Distribution of Stern–Brocot sequences generalized to Hecke triangle groups
- 11:45 - 12:15 **Reza Mohammadpour** (*Uppsala University*)
Restricted variational principle of Lyapunov exponents for typical cocycles
- 12:20 - 13:05 **Ian Morris** (*Queen Mary University of London*)
A variational principle relating self-affine measures & self-affine sets
- 13:05 *lunch*
- 15:00 - 15:45 **Noé Cuneo** (*Université Paris Cité*)
Large deviations of return times and related entropic estimators on shift spaces
- 15:50 - 16:20 **Yuki Yayama** (*Universidad del Bío-Bío*)
Relative pressure functions and their equilibrium states
- 16:20 - 16:50 *coffee break*
- 16:50 - 17:35 **Julien Barral** (*Sorbonne Paris Nord University*)
Sparse sampling and dilation operations on a Gibbs weighted tree, and multifractal formalism

Tuesday, May 16th

- 8:00 *breakfast*
- 9:00 - 9:45 **De-Jun Feng** (*The Chinese University of Hong Kong*)
Typical self-affine sets with non-empty interior
- 9:55 - 10:40 **Karoly Simon** (*Budapest University of Technology and Economics*)
Continuous piecewise linear iterated function systems on the line
- 10:40 - 11:10 *coffee break*
- 11:10 - 11:40 **Rudolf Dániel Prokaj** (*Alfréd Rényi Institute of Mathematics*)
On the attractor of piecewise linear iterated function systems
- 11:45 - 12:15 **Amlan Banaji** (*University of St Andrews*)
Dimensions of continued fraction sets
- 12:20 - 13:05 **Antti Käenmäki** (*University of Oulu*)
Finer geometry of planar self-affine sets
- 13:05 *lunch*
- 15:00 - 15:45 **Balázs Bárány** (*Budapest University of Technology and Economics*)
Multifractal analysis of weighted Birkhoff averages
- 15:50 - 16:20 **István Kolossváry** (*University of St Andrews*)
A variational principle for box counting quantities
- 16:20 - 16:50 *coffee break*
- 16:50 - 17:20 **Vilma Orgoványi** (*Budapest University of Technology and Economics*)
Random self-similar sets on the line
- 17:25 - 18:10 **Stéphane Seuret** (*Université Paris-Est Créteil*)
Measures, annuli and dimensions
- 19:00 *dinner*

Wednesday, May 17th

- 8:00 *breakfast*
- 9:00 - 9:45 **Anton Gorodetski** (*University of California Irvine*)
Non-stationary version of Furstenberg Theorem on random matrix products
- 9:55 - 10:40 **Victor Kleptsyn** (*CNRS, University of Rennes 1*)
Hölder regularity of stationary measures
- 10:40 - 11:10 *coffee break*
- 11:10 - 11:40 **Adam Śpiewak** (*IMPAN*)
Absolute continuity of self-similar measures on the plane
- 11:45 - 12:15 **Hasan Akin** (*ICTP*)
On the asymptotic behavior of thermodynamic quantities of Ising model
- 12:20 - 13:05 **Joanna Kułaga-Przymus** (*Nicolaus Copernicus University*)
Thermodynamic formalism for B-free systems
- 13:05 *lunch*
- 15:00 - 19:00 **free afternoon / excursion**
- 19:00 *bonfire*

Thursday, May 18th

- 8:00 *breakfast*
- 9:00 - 9:45 **Henna Koivusalo** (*University of Bristol*)
Shrinking targets and iterated function systems, a thermodynamic take
- 9:55 - 10:40 **Sascha Troscheit** (*University of Oulu*)
Diophantine approximation and coverings on random self-similar and self-affine sets
- 10:40 - 11:10 *coffee break*
- 11:10 - 11:40 **Alex Rutar** (*University of St Andrews*)
Random substitutions and multifractal analysis
- 11:45 - 12:15 **Yuki Takahashi** (*Saitama University*)
Invariant measures for iterated function systems with inverses
- 12:20 - 13:05 **Mark Pollicott** (*Warwick University*)
Upper bounds on the Hausdorff dimension of the Rauzy gasket
- 13:05 *lunch*
- 15:00 - 15:45 **Kenneth Falconer** (*University of St Andrews*)
Fractals, multifractals and subadditive thermodynamic formalism
- 15:50 - 16:20 **Roope Anttila** (*University of Oulu*)
Assouad dimension of self-affine sets and applications to Takagi functions
- 16:20 - 16:50 *coffee break*
- 16:50 - 17:20 **Subhash Chandra** (*Indian Institute of Technology Mandi*)
On construction of fractal functions and fractal measures
- 17:25 - 18:10 **Mike Todd** (*University of St Andrews*)
Cover times in dynamical systems
- 19:00 *dinner*

Friday, May 19th

- 8:00 *breakfast*
- 9:00 - 9:45 **Yuri Lima** (*Universidade Federal do Ceará*)
Symbolic dynamics for large non-uniformly hyperbolic sets of three-dimensional flows
- 9:55 - 10:40 **Polina Vytnova** (*University of Surrey*)
Discrepancy between dimensions of self-similar measures
- 10:40 - 11:10 *coffee break*
- 11:10 - 11:40 **Andrzej Biś** (*University of Łódź*)
Entropy functions for semigroup actions
- 11:45 - 12:15 **Carlos Vasquez** (*Pontificia Universidad Católica de Valparaiso*)
Intermingled phenomena for Kan diffeomorphisms
- 12:30 *lunch*
- 13:30 *departure*