



# First Dynamical Systems Summer Meeting

Będlewo, 16-20 August 2021

## PROGRAMME

(ONLINE TALKS ARE MARKED IN [BLUE](#))

### Monday, 16 August

**18:30** *bus from Poznań Główny Railway Station*

**19:00** *dinner*

### Tuesday, 17 August

**8:00** *breakfast*

**9:00 - 9:50** **Genadi Levin** (*Hebrew University of Jerusalem*)

On hyperbolic sets of polynomials

**10:00 - 10:50** **Igors Gorbovickis** (*Jacobs University, Bremen*)

Convergence of renormalizations and rigidity of multicritical circle maps

**10:50 - 11:10** *coffee break*

**11:10 - 12:00** **Dyi-Shing Ou** (*AGH University of Science and Technology*)

Transitions from one- to two-dimensional dynamics

**12:10 - 13:00** **Sonja Štimac** (*University of Zagreb*)

Densely branching trees as models for Hénon-like and Lozi-like attractors

**13:10** *lunch*

**15:00 - 15:50** **Sascha Troscheit** (*University of Vienna*)

The shrinking target problem and recurrence for generic self-affine sets

**16:00 - 16:50** **Wellington Cordeiro** (*Nicolaus Copernicus University in Toruń*)

Beyond topological hyperbolicity

**16:50 - 17:10** *tea, coffee*

**17:10 - 17:40** **Jernej Činč** (*University of Vienna & IT4Innovations Ostrava*)

Towards the understanding of inhomogeneities in strange attractors

**17:50 - 18:20** **Peter Raith** (*University of Vienna*)

Transitivity and mixing properties for expanding Lorenz maps on the interval

**18:30 - 19:00** **Till Hauser** (*Friedrich-Schiller-University Jena*)

Entropy beyond actions of uniform lattices

**19:10** *dinner*

## Wednesday, 18 August

- 8:00 *breakfast*
- 9:00 - 9:50 **Mark Pollicott** (*Warwick University*)  
Exponential growth of translation surfaces
- 10:00 - 10:50 **Alexandre Danilenko** (*B. Verkin Inst. for Low Temp. Physics and Engineering*)  
Haagerup property and Kazhdan pairs  
in terms of ergodic infinite measure preserving actions [online](#)
- 10:50 - 11:10 *coffee break*
- 11:10 - 12:00 **Károly Simon** (*Budapest University of Technology and Economics*)  
Dimension estimates for  $C^1$  iterated function systems [online](#)
- 12:10 - 13:00 **Jaime Jorge Sánchez-Gabites** (*Universidad Complutense de Madrid*)  
Obstructions to realizing toroidal sets as attractors [online](#)
- 13:10 *lunch*
- 14:30 - 15:20 **Liviana Palmisano** (*Durham University*)  
On stability of two dimensional non trivial dynamics [online](#)
- 15:30 - 16:20 **Michał Misiurewicz** (*Indiana University, Purdue University Indianapolis*)  
Travel in an infinite desert [online](#)
- 16:45 *trip*
- 19:15 *barbecue*

## Thursday, 19 August

- 8:00 *breakfast*
- 9:00 - 9:50 **Olena Karpel** (*AGH University of Science and Technology*)  
Tail invariant measures on Bratteli diagrams and their generalizations
- 10:00 - 10:50 **Krzysztof Frączek** (*Nicolaus Copernicus University in Toruń*)  
Recurrence for smooth curves in the moduli space of translation surfaces
- 10:50 - 11:10 *coffee break*
- 11:10 - 12:00 **Giulio Tiozzo** (*University of Toronto*)  
The fundamental inequality for random walks on cocompact Fuchsian groups
- 12:10 - 13:00 **Andrzej Biś** (*University of Lodz*)  
Metric Versus Topological Receptive Entropy of Semigroup Actions
- 13:10 *lunch*
- 15:00 - 15:50 **Adam Abrams** (*Wrocław University of Science and Technology*)  
Rigidity of topological entropy of boundary maps associated to Fuchsian groups
- 16:00 - 16:50 **Joanna Kułaga-Przymus** (*Nicolaus Copernicus University in Toruń*)  
Entropy rate of product of independent processes
- 16:50 - 17:10 *tea, coffee*
- 17:10 - 17:40 **Borys Kuca** (*University of Manchester*)  
Complexity of polynomial progressions and the polynomial Szemerédi theorem
- 17:50 - 18:20 **Maik Gröger** (*Jagiellonian University in Kraków*)  
Group actions with discrete spectrum and their amorphous complexity
- 18:30 - 19:00 **Mauricio Díaz** (*Universidad del Bío-Bío*)  
Levels of distributional chaos for Turing Machines
- 19:10 *dinner*

**Friday, 20 August**

**8:00** *breakfast*

**9:00 - 9:50** **Olga Lukina** (*University of Vienna*)  
Rotated odometers

**10:00 - 10:50** **Reza Mohammadpour** (*Université de Bordeaux*)  
Ergodic optimization and multifractal formalism of Lyapunov exponents

**10:50 - 11:10** *coffee break*

**11:10 - 12:00** **Mariusz Lemańczyk** (*Nicolaus Copernicus University in Toruń*)  
On Furstenberg systems of some aperiodic multiplicative functions

**12:30** *lunch*

*bus to Poznań*