

2020 Vision for Dynamics

Będlewo, 11-16 August 2019

PROGRAMME

All non-parallel talks will be held in **lecture room C**

Sunday, 11 August

16:45 *bus from Poznań Główny Railway Station*

19:00 *dinner*

Monday, 12 August

8:00 *breakfast*

8:50 - 9:00 *opening of the conference*

9:00 - 9:45 **Mariusz Lemańczyk** (*Nicolaus Copernicus University*)

On some spectral problems in ergodic theory

9:55 - 10:40 **Corinna Ulcigrai** (*University of Zurich*)

Singular spectrum for smooth flows in genus two

10:40 - 11:10 *coffee break*

11:10 - 11:55 **Steven Hurder** (*University of Illinois at Chicago*)

Rigidity and Classification of Cantor Actions

12:05 - 12:50 **Colin Guillarmou** (*CNRS / Université Paris-Sud*)

Geodesic stretch and marked length spectrum rigidity

13:00 *lunch*

14:40 - 15:25 **Jörg Schmeling** (*MathCenter, Lunds University*)

L^∞ and pointwise estimates of generalized Thue-Morse trigonometric polynomials

15:35 - 16:20 **Manfred Denker** (*Pennsylvania State University*)

Local time for ergodic sums

16:20 - 16:50 *coffee break*

16:50 - 17:35 **Victor Kleptsyn** (*CNRS, University of Rennes 1*)

Furstenberg theorem: now with a parameter!

17:45 - 18:30 *Parallel sessions*

Room C **Philipp Kunde** (*Pennsylvania State University*)

Loosely Bernoulli odometer-based systems whose corresponding circular systems are not loosely Bernoulli

Room A **Agnieszka Zelerowicz** (*University of Maryland*)

Equilibrium measures for some partially hyperbolic systems

19:00 *dinner*

20:00 *Problem session 'Hyperbolic dynamics and ergodic theory'*

Tuesday, 13 August

- 8:00 *breakfast*
- 9:00 - 9:45 **Carlangelo Liverani** (*University of Rome Tor Vergata*)
Partially hyperbolic systems with center close to identity
- 9:55 - 10:40 **Alexander Gorodnik** (*University of Zurich*)
Randomness for group actions
- 10:40 - 11:10 *Poster session (Room B) / coffee break*
- 11:10 - 11:55 **Aaron Brown** (*University of Chicago*)
Measure rigidity and projective actions of lattices
- 12:05 - 12:50 **Boris Kalinin** (*Pennsylvania State University*)
Center foliation rigidity for partially hyperbolic toral diffeomorphisms
- 13:00 *lunch*
- 14:40 - 15:25 **Anton Gorodetski** (*University of California Irvine*)
Hyperbolic Dynamics and Spectral Theory
- 15:35 - 16:20 **Victoria Sadovskaya** (*Pennsylvania State University*)
Group-valued cocycles over hyperbolic systems and their periodic data
- 16:20 - 16:50 *Poster session (Room B) / coffee break*
- 16:50 - 17:35 **Richard Sharp** (*University of Warwick*)
Periodic orbit growth on covers of Anosov flows
- 17:45 - 18:30 *Parallel sessions*
- Room C **Huyi Hu** (*Michigan State University*)
The essential coexistence phenomenon in Hamiltonian dynamics
- Room A **Alena Erchenko** (*The Ohio State University*)
Flexibility of Lyapunov exponents on the torus
- 19:00 *dinner*
- 20:00 *Problem session 'Elliptic/parabolic dynamics and ergodic theory'*

Wednesday, 14 August

- 8:00 *breakfast*
- 9:00 - 9:45 **Yulij Ilyashenko** (*National Research University Higher School of Economy*)
Global bifurcations on the two sphere: first steps of a new theory
- 9:55 - 10:40 **Leonid Bunimovich** (*Georgia Institute of Technology*)
Finite Time Dynamics
- 10:40 - 11:00 *coffee break*
- 11:00 - 11:45 **Adam Kanigowski** (*University of Maryland*)
Bernoulli and K properties in smooth dynamics
- 11:55 - 12:40 **Jairo Bochi** (*Catholic University of Chile (PUC-Chile)*)
Flexibility of Lyapunov exponents
- 12:50 *lunch*
- 13:40 - 19:00 *excursion*
- 19:30 *banquet*

Thursday, 15 August

- 8:00 *breakfast*
- 9:00 - 9:45 **Federico Rodriguez-Hertz** (*Pennsylvania State University*)
Exponential mixing and its consequences
- 9:55 - 10:40 **Dmitry Dolgopyat** (*University of Maryland*)
Central Limit Theorem in Dynamical Systems
- 10:40 - 11:10 *coffee break*
- 11:10 - 11:55 **Maria Saprykina** (*KTH Royal Institute of Technology*)
Instability and diffusion in Hamiltonian systems via the Approximation by conjugation method
- 12:05 - 12:50 **Vadim Kaloshin** (*University of Maryland*)
On dynamical spectral rigidity of planar domains
- 13:00 *lunch*
- 14:40 - 15:25 **E. Arthur Robinson, Jr.** (*George Washington University*)
Dynamical properties of generalized pinwheel tilings
- 15:35 - 16:20 **Dmitry Turaev** (*Imperial College London*)
On triple instability
- 16:20 - 16:40 *coffee break*
- 16:40 - 17:25 *Parallel sessions*
- Room C **Dominik Kwietniak** (*Jagiellonian University in Kraków*)
Feldman-Katok convergence and entropy of nonuniformly hyperbolic measures
- Room A **Kurt Vinhage** (*University of Chicago*)
Dynamical Invariants for Unipotent Flows
- 17:35 - 17:55 *Short communications*
- Room C **Adam Abrams** (*Institute of Mathematics Polish Academy of Sciences*)
Flexibility of entropy of boundary maps for surfaces of constant negative curvature
- Room A **Kajal Das** (*Institute of Mathematics Polish Academy of Sciences*)
Quasi-isometry between warped cones and uniform measured equivalence
- 18:00 - 18:20 *Short communications*
- Room C **Dominic Veconi** (*Pennsylvania State University*)
Equilibrium states of almost Anosov diffeomorphisms
- 18:25 - 18:50 *Short communications*
- Room C **Dyi-Shing Ou** (*Institute of Mathematics Polish Academy of Sciences*)
Nonexistence of wandering domains for infinitely renormalizable Hénon maps
- Room A **Kamlesh Parwani** (*Eastern Illinois University*)
Actions of mapping class groups on the circle
- 19:00 *dinner*

Friday, 16 August

- 8:00 *breakfast*
- 9:00 - 9:45 **Mark Pollicott** (*Warwick University*)
Nonconvexity of Lyapunov Spectra
- 9:55 - 10:40 **Pierre Berger** (*Université Paris 13*)
Influence of the work of A. Katok on the study of non-ergodic dynamics
- 10:40 - 11:00 *coffee break*
- 11:00 - 11:45 **Livio Flaminio** (*Université de Lille*)
Distributions in dynamical systems
- 11:55 - 12:40 **Michał Misiurewicz** (*Indiana University - Purdue University Indianapolis*)
Coarse entropy
- 12:50 *lunch*
- 14:00 *bus to Poznań Główny Railway Station*