

Workshop on
“Rare Events in Dynamical Systems”

March 18 - 22, 2024

organized by

Françoise Pène (UBO, Brest), Tanja Schindler (U of Vienna), Roland Zweimüller (U of Vienna)

• **Monday, March 18th, 2024**

09:00 – 09:30 **Registration & Welcome**

09:30 – 10:30 **Mike Todd (U of St Andrews)**

Extremes and self-recurrence

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Jorge Freitas (U Porto)**

Convergence to decorated Lévy processes for dynamical systems

12:00 – 13:30 **Lunch Break**

13:30 – 14:15 **Discussions**

14:15 – 15:15 **Max Auer (U of Maryland)**

Poisson Limit Theorems for Systems with Product Structure

15:15 – 15:45 **Coffee Break**

15:45 – 16:45 **Maxence Phalempin (Università degli Studi di Firenze)**

Averaging result for differential equations perturbed by a Z-periodic Lorentz gas.

• **Tuesday, March 19th, 2024**

09:30 – 10:30 **Sandro Vaienti (U of Toulon)**

Extreme Value theory and Poisson statistics for stochastic differential equations.

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Meagan Carney (U of Queensland, Brisbane)**

Runs of Extremes of Observables and Applications

12:00 – 13:30 **Lunch Break**

13:30 – 16:45 **Hike**

• **Wednesday, March 20th, 2024**

09:30 – 10:30 **Peter Balint (BME, Budapest)**

Generalized law of iterated logarithm in the infinite horizon Lorentz gas

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Nasab Yassine (UBS)**

Quantitative recurrence for Z-extension of three-dimensional Axiom A flows

12:00 – 13:30 **Lunch Break**

13:30 – 15:15 **Discussions**

15:15 – 15:45 **Coffee Break**

15:45 – 16:45 **Dylan Bansard-Tresse (Ecole Polytechnique)**

TBA

- **Thursday, March 21st, 2024**

09:30 – 10:30 **Philipp Kunde (Jagiellonian U, Krakow)**

Dichotomy results for eventually always hitting time statistics

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Henna Koivusalo (U Bristol)**

Dynamical subsets in iterated function systems

12:00 – 13:30 **Lunch Break**

13:30 – 15:15 **Discussions**

15:15 – 15:45 **Coffee Break**

15:45 – 16:45 **Tomas Persson (Lund U)**

Fractional response and a parameter almost sure invariance principle for the quadratic family

18:30 – 22:00 **Conference Dinner**

- **Friday, March 22nd, 2024**

09:30 – 10:30 **Hong-Kun Zhang (UMass Amherst)**

Advancing learning in Chaotic Systems with Novel Neural Network Techniques

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Matthew Nicol (U of Houston)**

Convergence of Birkhoff sums of heavy-tailed observables on Gibbs-Markov systems to stable laws and applications (joint with An Chen and Andrew Torok)

All talks take place at ESI Boltzmann Lecture Hall!