

**Workshop****September 26 - 30, 2022****of the Thematic Programme on****“Large Deviations, Extremes and Anomalous Transport in Non-equilibrium Systems”****September 19 - October 14, 2022****organized by****Christoph Dellago (U Vienna), Satya Majumdar (U Paris Sud, Orsay), David Mukamel (Weizmann Institute, Rehovot), Harald Posch (U Vienna), Gregory Schehr (U Paris Sud, Orsay)****• Monday, September 26th, 2022**09:00 – 09:45 **Registration**09:45 – 10:30 **Clemens Bechinger (U of Konstanz)***Colloidal particles in non-Markovian fluids far from equilibrium*10:30 – 11:00 **Coffee Break**11:00 – 11:45 **Robert Jack (U Cambridge)***Large deviations of time-integrated quantities in active (and passive) matter*11:45 – 12:30 **Christian Maes (KU Leuven)***Nonequilibrium calorimetry*12:30 – 14:00 **Lunch Break**14:00 – 14:45 **Urna Basu (SNBNCBS, Kolkata)***Activity driven transport in harmonic chains*14:45 – 15:30 **Pierre Le Doussal (ENS Paris)***large deviations for diffusion in random media: crossover from the macroscopic fluctuation theory to the KPZ equation*15:30 – 16:00 **Coffee break****• Tuesday, September 27th, 2022**09:00 – 09:45 **Olivier Benichou (Sorbonne U, Paris)***Generalized Density Profiles in Single-File Systems*09:45 – 10:30 **Jae Dong Noh (U of Seoul)***Ordering of diffusing spins*10:30 – 11:00 **Coffee break**11:00 – 11:45 **Eli Barkai (Bar Ilan U)***Packets of diffusing particles exhibit universal exponential tails*11:45 – 12:30 **Oren Raz (Weizmann Institute, Rehovot)***Fluctuations in the Fourier coefficient of the current in periodically driven systems*12:30 – 14:00 **Lunch break**

14:00 – 14:45 **Marija Vucelja (U Virginia)**  
*Anomalous thermal relaxation for over-damped Langevin dynamics*

14:45 – 15:30 **Stefan Thurner (Med U Vienna)**  
*On the origin of fat tailed distribution functions in driven complex systems*

15:30 – 16:00 **Coffee break**

• **Wednesday, September 28th, 2022**

09:00 – 09:45 **Sergio Ciliberto (CNRS, Paris)**  
*Several applications of Engineered Swift Equilibration*

09:45 – 10:30 **Udo Seifert (U Stuttgart)**  
*From stochastic thermodynamics to thermodynamic inference*

10:30 – 11:00 **Coffee break**

11:00 – 11:45 **David Limmer (UC, Berkeley)**  
*A large deviation perspective on nanoscale transport phenomena*

11:45 – 12:30 **Juan Garrahan (U of Nottingham)**  
*Tensor network methods and large deviations*

12:30 – 14:00 **Lunch break**

• **Thursday, September 29th, 2022**

09:00 – 09:45 **Abhishek Dhar (TIFR, Bangalore)**  
*Entropy growth during free expansion of an ideal gas*

09:45 – 10:30 **Jorge Kurchan (ENS Paris)**  
*Quantum bounds and Fluctuation-Dissipation Relation*

10:30 – 11:00 **Coffee break**

11:00 – 11:45 **Ariel Amir (Harvard U, Cambridge)**  
*Statistical physics of microbial growth: fluctuations, phase transitions and large deviations*

11:45 – 12:30 **Mustansir Barma (TIFR Hyderabad)**  
*Coarsening, condensates and extremes in aggregation-fragmentation models*

12:30 – 14:00 **Lunch break**

14:00 – 14:45 **Stefano Lepri (ISC)**  
*Anomalous transport in nonlinear lattices: quasi-integrability and long-range interactions*

14:45 – 15:30 **Andrea Gambassi (SISSA, Trieste)**  
*A surprising centenarian: the Ising model and its (quantum) interface dynamics*

15:30 – 16:00 **Coffee break**

• **Friday, September 30th, 2022**

09:00 – 09:45 **Yariv Kafri (Technion Haifa)**  
*The long-ranged influence of disorder on active systems*

09:45 – 10:30 **Shlomi Reuveni (Tel Aviv U)**  
*Inspection Paradox Approach to Stochastic Resetting*

10:30 – 11:00 **Coffee break**

11:00 – 11:45 **Paul Krapivsky (U of Boston)**  
*Large Deviations in Random Sequential Packing and Covering*

11:45 – 12:30 **Martin Evans (U Edinburgh)**  
*Stochastic Resetting: Overview and Recent Developments*

12:30 – 14:00 **Lunch break**

**All talks take place at ESI Boltzmann Lecture Hall! Wearing an FFP2 mask is mandatory!**