

Monday 25 June 2018

09:00-09:25 Coffee and Registration

Edmond J Safra Lecture Theatre

09:25-09:30 Welcome from Joe Bhaseen

09:30-10:15 Markus Heyl (Dresden)
Dynamical quantum phase transitions

10:15-11:00 Pierfrancesco Urbani (IPHT)

11:00-11:30 Coffee Break

11:30-12:15 Edgar Roldan (ICTP, Trieste)

12:15-12:45 Poster Spotlights

12:45-14:30 Lunch and Posters

14:30-15:15 Eric Vanden-Eijnden (Courant Institute, NYU)

15:15-16:00 Andrea Cavagna (CNR-ISC, Institute for Complex Systems, Rome)

16:00-16:30 Coffee Break

16:30-17:15 Anatoli Polkovnikov (Boston)

17:15-18:00 Poster Session

18:00-19:00 Welcome Reception in Terrace Café (Macadam Building, Strand Campus)

Tuesday 26 June 2018

09:00–09:30 Coffee and Registration

Edmond J Safra Lecture Theatre

09:30–10:15 Ehud Altman (Berkeley)

10:15–11:00 Dmitry Abanin (Geneva)
New non-equilibrium quantum many-body states enabled by
ergodicity breakdown

11:00–11:15 Poster Spotlights

11:15–11:45 Coffee Break

Strands	Physical <i>Edmond J Safra Lecture Theatre</i>	Statistical Mechanics <i>K0.18/K0.16</i>
11:45–12:30	Arijeet Pal (Oxford)	Raffaella Burioni (Parma) Neuronal Avalanches in cortex dynamics and the synchronization transition
12:30–13:00	Federico Carollo (Nottingham) Current fluctuations in boundary- driven quantum spin-chains	Carl Dettmann (Bristol) Network connectivity in complex geometries

13:00–14:30	Lunch and Posters	
14:30–15:15	Adam Nahum (Oxford)	Simone Pigolotti (Uni Rome) Generic properties of stochastic entropy production
15:15–15:45	Filippo Maria Gambetta (Nottingham) Discrete time crystals in metastable open quantum systems	Carlos Perez- Espigares (Nottingham) Critical phenomena and their microscopic origin in the dynamical fluctuations of driven diffusive systems
15:45–16:15	Coffee Break	
16:15–16:45	Marzena Symanska (UCL)	Markus Meuwly (Basel) Dynamics Far from Equilibrium in Atmospheric Molecular Processes
16:45–18:00	Poster Session	

***Edmond J
Safrá Lecture
Theatre***

18:30–19:30

Public lecture
– Allan
Tucker. Three
AI Algorithms
Inspired by
Data from the
Life Sciences

**Wednesday
27 June
2018**

09:00–09:30 Coffee/Registration

Edmond J Safrá Lecture Theatre

09:30–10:15 Hernan Makse, CUNY

10:15–11:00 Daniel Sussman, Syracuse Anomalous interfaces in simple models of dense biological tissue

11:00–11:15 Poster Spotlight

11:15–11:45 Coffee Break

Strands	Physical <i>Edmond J Safran</i> <i>Lecture Theatre</i>	Biological <i>KO.18/KO.16</i>
11:45–12:15	Katarzyna Macieszczak (Cambridge) Thermodynamic uncertainty relations	Ivet Bahar (Pittsburgh) Multiscale Modeling and Simulations of Neurotransmitter Transport
12:15–12:45	Patrick Pietzonka (Cambridge) Thermodynamic bounds on current fluctuations	Richard Blythe (Edinburgh) Universal Scaling of a growing interface constrained by a membrane
12:45–14:15	Lunch and Posters	
14:15–14:45	Robert Jack (Cambridge) Large deviation of the active work in active fluid	Carmen Molina-Paris (Leeds) Stochastic descriptors to study the fate of naive T cell clonotypes in the periphery
14:45–15:15	Patrick Ilg (Reading)	Chiu Fan Lee (Imperial) The

	Nanorheology and magnetoviscosity of magnetic nanoparticles in viscoelastic environments	Physics of Non-Equilibrium Phase separation: Implications for stress granule formation in the cell cytoplasm	15:15–15:45 Coffee Break 15:45–16:30 Luca Dall'Asta (Turin)
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Optimality in self-organized molecular sorting

16:30–17:15 Ton Coolen (KCL)

Inferring parameters of irreversible processes: replica analysis of overfitting in time-to-event regression

17:15–17:20 Concluding remarks