

31 M. Smoluchowski Symposium on Statistical Physics

Sunday 02-09

20:00 Get-together meeting

Monday 03-09

08:00 09:00 Breakfast

09:00 10:30

Opening		
Celestial mechanics of fruit flies or a theory for mushroomers	Prof. SCHIMANSKY-GEIER, Lutz	45 min
Random search with resetting: A unified renewal approach	Prof. SOKOLOV, Igor	45 min

10:30 11:00 Coffee break

11:00 12:30

Composite Continuous Time Random Walks	Prof. HILFER, Rudolf	45 min
Non-equilibrium Steady States of the Brownian Asymmetric Simple Exclusion Process	Dr. RYABOV, Artem	20 min
Information and regularity of Brownian particle dynamics	Dr. MACHURA, Lukasz	20 min

12:30 14:30 Lunch break

14:30 16:00

Quantum law for partition of kinetic energy	Prof. ŁUCZKA, Jerzy	45 min
Two distinguishable impurities in BEC: squeezing and entanglement of two Bose polarons	Mr. CHARALAMBOUS, Christos	20 min
Weighted models for level statistics across the many--body localization transition	Mr. SIERANT, Piotr	20 min

16:00 16:30 Coffee break

16:30 18:00

Emergence of Kardar-Parisi-Zhang dynamics from the etching model: A nonphenomenological description.	Prof. OLIVEIRA, Fernando	45 min
When boundary conditions at a thin membrane create nonmarkovian normal diffusion	Dr. KOSZTOŁOWICZ, Tadeusz	20 min
Stereological-fractal analysis as a tool for a precise description of the morphology of hybrid alginate membranes	Dr. KRASOWSKA, Monika	20 min

19:00 Dinner

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Tuesday**04-09****08:00** **09:00** Breakfast**09:00** **10:30**Anomalous diffusion, ergodicity, ageing,
and non-gaussianity

Prof. METZLER, Ralf 45 min

Active Lévy matter: Hydrodynamic
description and linear stability analysis

Dr. CAIROLI, Andrea 20 min

Robust Active Force Detection with the
Overdamped Langevin EquationDr. SEROV, Alexander
S. 20 min**10:30** **11:00** Coffee break**11:00** **12:30**Exact results on the kinetics of random
sequential adsorption processes

Dr. BAULE, Adrian 45 min

Saturated packings of convex anisotropic
objects under random sequential
adsorption protocol

Mr. CIESLA, Michal 20 min

Random Sequential Adsorption of Platonic
and Archimedean Solids

Mr. KUBALA, Piotr 20 min

12:30 **14:30** Lunch break**14:30** **16:00**Nurturing Nature for Nanotechnology
Deterministic Loewner equation and
unstable growth processes

Dr. ZWOLAK, Michael 45 min

Dr. SZYMCZAK, Piotr 45 min

16:00 **16:30** Coffee break**16:30** **18:00**

Duality in Percolation

Prof. ZIFF, Robert M. 45 min

Spin-glass-like transition in the Ising
models with locally competing
temperatures.Dr. KRAWIECKI,
Andrzej 20 minInterplay of Katsura-Nagaosa-Balatsky
mechanism and zigzag geometry of lattice
bonds: exactly solvable model of the
 $S=1/2$ XY magnetoelectric.

Dr. OHANYAN, Vadim 20 min

19:00 Dinner

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Wednesday

05-09

08:00 09:00 Breakfast

Excursion day – no lunch is served

19:00 Gala Dinner

Thursday

06-09

08:00 09:00 Breakfast

09:00 10:30

Active noisy oscillators - analytical approaches, stochastic phase description, and coupling effects Prof. LINDNER, Benjamin 45 min

Short-time molecular motion in simple liquids reflected in temporal, ensemble and wavelet variance MSD for self-diffusion Prof. POSTNIKOV, Eugene 20 min

Scale-dependent anomalous diffusion in spatially disordered environments MUNOZ-GIL, Gorka 20 min

10:30 11:00 Coffee break

11:00 12:30

Flux and storage of energy in non-equilibrium stationary states Prof. HOLYST, Robert 45 min

The divergence of collective dissipation length in SCN-induced glass-like transition Dr. MAJKA, Maciej 20 min

Fingering instabilities in tissue invasion: an active fluid model Mr. BOGDAN, Michal 20 min

12:45 15:00 Lunch break

15:00 18:00 Poster Session

19:00 Dinner

Friday

07-09

08:00 09:00 Breakfast

Departure