

Conference Agenda

Thursday, 03/12/2020

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| 08:50 CET | Opening |
| 09:00 - 09:30 CET | Kim Sneppen <i>Super-spreaders in the Corona Epidemics</i> |
| 09:30 - 10:00 CET | Adam Kleczkowski <i>Using stochastic models to describe the coronavirus epidemic</i> |
| 10:00 - 10:30 CET | Thierry Dauxois <i>Energy cascade in internal wave attractors</i> |
| 10:30 - 11:00 CET | Gleb Oshanin <i>Spectral content of a single trajectory</i> |
| 12:00 - 12:30 CET | Eli Barkai <i>Packets of diffusing particles exhibit universal exponential tails</i> |
| 12:30 - 12:50 CET | Adrian Baule <i>Loopy Lévy flights enhance tracer diffusion in active suspensions</i> |
| 12:50 - 13:10 CET | Alexandre Guillet <i>Extreme-Value Statistics of Stochastic Transport Processes</i> |
| 13:10 - 13:30 CET | Aleksander Stanislavsky <i>Confined random motion: What is statistics? Gaussian or Laplacian?</i> |
| 13:30 - 13:50 CET | Horacio S. Wio <i>Variational Approach to KPZ: Fluctuation Theorems, Large Deviation Function, and Probability Distribution Function</i> |
| 16:00 - 16:30 CET | Sidney Redner <i>Optimization and Growth in First-Passage Resetting</i> |
| 16:30 - 17:00 CET | Shlomi Reuveni <i>Restart: The Physics Of Starting Anew</i> |

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| 17:00 - 17:20 CET | Martin Bier <i>Lévy Noise, Time-Reversal Symmetry, Nonequilibrium Stochastic Thermodynamics, and Bak's Sandpile</i> |
| 17:20 - 17:40 CET | Jerzy Gorecki <i>Simple mathematical models for self-propelled motion on the water surface</i> |
| 17:40 - 18:00 CET | Paweł F. Góra <i>Pre-poster session</i> |
| 18:00 - 19:00 CET | Poster session |

Friday, 04/12/2020

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|-------------------|---|
| 09:00 - 09:30 CET | Rainer Klages <i>Galilean invariance for stochastic diffusive dynamics</i> |
| 09:30 - 09:50 CET | Katarzyna Gorska <i>Anomalous Diffusion and Generalized Cattaneo Equation</i> |
| 09:50 - 10:10 CET | Baruch Meerson <i>Geometrical Optics of Constrained Brownian Motion</i> |
| 10:10 - 10:30 CET | Masato Itami <i>Effective Langevin equations leading to large deviation function of time-averaged velocity for a nonequilibrium Rayleigh piston</i> |
| 10:30 - 10:50 CET | Jacek Miękiś <i>Random walks with asymmetric time delays</i> |
| 12:00 - 12:20 CET | Arkadiusz Jędrzejewski <i>Spontaneous symmetry breaking of active phase in coevolving nonlinear voter model</i> |
| 12:20 - 12:40 CET | Andrzej Krawiecki <i>The q-voter model with attractive and repulsive interactions and independence on random graphs</i> |
| 12:40 - 13:00 CET | Fabian Baumann <i>Modeling Echo Chambers and Polarization Dynamics in Social Networks</i> |
| 13:00 - 13:20 CET | David Kessler <i>Biological Networks Regulating Cell Fate Choice Are Minimally Frustrated</i> |
| 13:20 - 13:40 CET | Andreas Dechant <i>Continuous time-reversal and the thermodynamic uncertainty relation</i> |
| 13:40 - 14:00 CET | Marcin Łobejko <i>The role of ergotropy in the quantum thermodynamics</i> |

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| 16:00 - 16:30 CET | <p>Massimiliano Esposito</p> <p><i>Thermodynamics in biology: From molecular motors to metabolism</i></p> |
| 16:30 - 17:00 CET | <p>Danuta Makowiec</p> <p><i>On zero-delay synchronization in a network of timed automata modeling cardiac tissue</i></p> |
| 17:00 - 17:20 CET | <p>Anna Ochab-Marcinek</p> <p><i>Protein noise floor in gene expression: How cell growth and division contribute to it?</i></p> |
| 17:20 - 17:40 CET | <p>Artem Ryabov</p> <p><i>Symmetries and asymmetries of times to complete a chemical cycle</i></p> |
| 17:40 - 18:00 CET | <p>Michael Zwolak</p> <p><i>Diffusion limitations and translocation barriers in atomically thin biomimetic pores</i></p> |
| 19:00 CET | <p>On-line concert</p> |