Updated: September 25, 2023



Programme

Sunday 24/09

15:00 - 15:50		Registration 🧨	
15:50 - 16:00	Welcome Address ఊ		
Session 1		Chairman: Ewa Gudowska-Nowak	
16:00 - 16:40	IT	The cost of stochastic resetting	Martin Evans
16:40 - 17:05	СТ	Diffusion with time changing Hurst exponent	Jakub Ślęzak
17:05 - 17:30	СТ	Non-equilibrium criticality in the synchronization of lattices of self-sustained oscillators	Ricardo Gutiérrez
17:30 - 20:00		Get Together "1	

IT Invited Talk

CT Contributed Talk

Monday 25/09

Session 2		Chairman: Igor Sokolov	
09:00 - 09:40	IT	A quantum thermodynamics approach to optimization in complex systems	Alberto Imparato
09:40 - 10:05	СТ	Numerical simulation of Kibble-Zurek mechanism with Landau-Ginzburg dynamics	Fumika Suzuki
10:05 - 10:30	СТ	Many-body localization and the thermodynamic limit	Jakub Zakrzewski
10:30 - 11:00		Coffee Break 👤	
Session 3		Chairman: Martin Evans	
11:00 - 11:40	IT	Linear and nonlinear fluctuation-response relations in non-equilibrium systems - spiking neurons, stochastic oscillators, and particles in an active bath	Benjamin Lindner
11:40 - 12:05	СТ	Quantifying activity in chemically active systems with a stochastic Poisson field theory	Joël Mabillard
12:05 - 12:30	СТ	Self-organization without self-attraction in quorum-sensing active matter: the interplay between nonreciprocity and motility	Benoît Mahault
12:30 - 14:00		Lunch Break 🍴	
Session 4		Chairman: Piotr Garbaczewski	
14:00 - 14:40	IT	Generation of rare events in stochastic systems	Raúl Toral
14:40 - 15:05	СТ	Catalytically optimized search strategy	Yann Lanoiselée
15:05 - 15:30	СТ	Controlling uncertainty of empirical first-passage times in the small-sample regime	Rick Bebon
15:30 - 16:00	Coffee Break		
Session 5		Chairman: Raúl Toral	
16:00 - 16:40	IT	Machine learning on uncontrolled hardware	Juan Pablo Carbajal
16:40 - 17:05	СТ	Noise management in machine learning	Karol Capała
17:05 - 17:30	СТ	Coarse-grained description of stochastic dynamics and field theoretic models for complex systems	Shankar Prasad Das

IT Invited Talk

CT Contributed Talk

Tuesday 26/09

	Chairman: Juan Pahlo Carbaial		
IT	Mean field theory of memristive systems and nanowires	Francesco Caravelli	
СТ	Stochastic resonance in memristors	Paweł F. Góra	
СТ	Global in time existence theorem for the full revised Enskog equation	Jacek Polewczak	
Coffee Break 👤			
	Chairman: Aljaž Godec		
СТ	Binary mixtures of driven Brownian hard spheres in periodic potentials in one dimension	Artem Ryabov	
СТ	Ensemble dependence of the critical behavior of a system with long range interaction and quenched randomness	Nir Schreiber	
СТ	Ensemble dependence of information-theoretic contributions to the entropy production	Krzysztof Ptaszyński	
	Lunch Break 🎢		
	Chairman: Paweł F. Góra		
IT	Thermal relaxation asymmetry in reversible and driven systems	Aljaž Godec	
СТ	Negative heat generation in a non-Markovian bath	Félix Ginot	
СТ	Optimal work protocols in non-Markovian baths	Samuel Monter	
IT	Human and viral ion channels and membranes	Andrzej Fuliński	
	Coffee Break 👤		
	Poster Session		
	СТ СТ СТ СТ СТ	CT Stochastic resonance in memristors CT Global in time existence theorem for the full revised Enskog equation Coffee Break Chairman: Aljaž Godec CT Binary mixtures of driven Brownian hard spheres in periodic potentials in one dimension Ensemble dependence of the critical behavior of a system with long range interaction and quenched randomness CT Ensemble dependence of information-theoretic contributions to the entropy production Lunch Break 11 Chairman: Paweł F. Góra IT Thermal relaxation asymmetry in reversible and driven systems CT Negative heat generation in a non-Markovian bath CT Optimal work protocols in non-Markovian baths IT Human and viral ion channels and membranes Coffee Break C	

IT Invited Talk CT Contributed Talk

Wednesday 27/09 Prof. Lech Longa's *mini colloquium* – 70th birthday anniversary

08:45 - 09:00		Opening Speech 🖧	-
Session 9		Chairman: Michał Cieśla	
09:00 - 09:40	IT	Entropic stabilization of quasicrystals	Hans-Rainer Trebin
09:40 - 10:20	IT	Universal scaling relation for growth phenomena	Fernando Oliveira
10:20 - 10:50		Coffee Break 👤	
Session 10		Chairman: Alberta Ferrarini	
10:50 - 11:30	IT	A tribute to Lech Longa: Devoting more than forty years to probing new phenomena in nematic liquid crystals	David Allender
11:30 - 12:10	IT	Theoretical models for the nematic twist-bend phase and the seminal contribution of Prof. Longa	Mikhail Osipov
12:10 - 12:50	IT	Topological constraints of activity-driven transitions from stationary defect dynamics to nematic turbulence	Slobodan Žumer
12:50 - 13:30	IT	Complex helical smectic phases made of achiral molecules	Ewa Górecka
13:30 - 15:00		Lunch Break ¶¶	
Session 11		Chairman: David Allender	
15:00 - 15:40	IT	Some open questions in the elasticity of nematic liquid crystals: insights from microscopic theory	Alberta Ferrarini
15:40 - 16:20	IT	Nematic ordering in active systems	Holger Stark
16:20 - 16:45	СТ	A self-consistent mean field model for hard ellipsoids	Peter Palffy-Muhoray
16:45 - 17:15		Coffee Break 👤	
Session 12		Chairman: Wojciech Tomczyk	
17:15 - 17:40	СТ	Entropy-driven formation of modulated and frustrated mesophases in a system composed of bent-core molecules	Piotr Kubala
17:40 - 18:05	СТ	Properly dealing with recent discoveries in suspensions of bent colloidal rods by means of a grand-canonical Landau-de Gennes theory	Carmine Anzivino
18:30		Gala Dinner 🚖	
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Thursday 28/09

Session 13		Chairman: Arkady Pikovsky	
09:00 - 09:25	СТ	Mitosis of life aims in Poland 2012-2016	Krzysztof Kułakowski
09:25 - 09:50	СТ	Reentrant phase transition in the TASEP with parking spots	Valentin Anfray
09:50 - 10:15	СТ	Nonconservative diffusion processes	Piotr Garbaczewski
10:15 - 10:45		Coffee Break 👤	
Session 14		Chairman: Krzysztof Kułakowski	
10:45 - 11:25	IT	Random walks in correlated diffusivity landscapes	Igor Sokolov
11:25 - 11:50	СТ	Statisitical properties of random advection-diffusion	Arkady Pikovsky
11:50 - 12:15	СТ	Dynamical phase transition in the fluctuations of occupation fraction of N non-crossing Brownian particles	Soheli Mukherjee
12:15 - 13:45		Lunch Break 🍴	

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