

Timetable

IT Invited Talk

CT Contributed Talk

Saturday, 17/09

13:30-14:45		Registration	
14:45-15:00		Welcome Address	
Session 1			
15:00-15:45	ІТ	Linear response and fluctuiation-dissipation relations for stochastic processes under resetting	Igor Sokolov
15:45-15:55		Flash Break	
15:55-16:20	СТ	Learning from onion to balance between order and chaos	Leszek Krzemień
16:20-16:45	СТ	Stability of gene expression patterns in developmental systems with dynamic morphogen sources	Maciej Majka
16:45-17:15 Flash Break			
17:15-17:40	СТ	Multimodal approach in research on DNA damage	Kamila Sofińska
17:40-18:05	СТ	Statistical mechanics of adaptive neural networks: Explaining coexistence of avalanches and oscillations in resting human brain	Fabrizio Lombardi
18:05-20:00		Get Together	

Sunday, 18/09

Session 2			
15:00-15:45	ІТ	To thermalize or not to thermalize, that is the question	Maciej Lewenstein
15:45–15:55 Flash Break			
15:55-16:20	СТ	Foundations of statistical mechanics for unstable interactions	Rudolf Hilfer
16:20-16:45	СТ	Quantum and classical contributions to entropy production in fermionic and bosonic systems	Krzysztof Ptaszyński
16:45-19:00	Poster Session Party		

Monday, 19/09

Session 3			
09:00-09:45	ІТ	Quantum Theory of the Classical: Einselection, Envariance, and Quantum Darwinism	Wojciech H. Żurek
09:45-09:55		Flash Break	
09:55-10:20	СТ	Geometric Brownian Information Engine	Debasish Mondal
10:20-10:45	СТ	A human-size realisation of the Feynman–Smoluchowski ratchet-and-pawl thought experiment	Marc Lagoin
10:45-11:15		Coffee Break	
Session 4			
11:15-12:00	ІТ	Finding low energy states of low-dimensional spin-glasses via approximate tensor network contractions	Marek Rams
12:00-12:10		Flash Break	
12:10-12:35	СТ	Anderson Localization of Composite Particles	Fumika Suzuki
12:35-13:00	СТ	Crystalline phases with splay modulation in a system of hard wedges composed of balls	Piotr Kubala
13:00-15:00		Lunch Break	
Session 5			
15:00-15:45	ІТ	Fractional Brownian motion with random Hurst exponent	Agnieszka Wyłomańska
15:45-15:55		Flash Break	
15:55-16:20	СТ	RNA dynamics in the cytoplasm of mammalian cells	Diego Krapf
16:20-16:45	СТ	On the scaling properties of spontaneous cell motility	Nahuel Zamponi
16:45-17:15		Coffee Break	

Tuesday, 20/09

Session 6			
09:00-09:45	ІТ	New developments in relativistic dissipative hydrodynamics	Wojciech Florkowski
09:45-09:55		Flash Break	
09:55-10:20	СТ	Solitons in driven overdamped Brownian motion	Artem Ryabov
10:20-10:45	СТ	Analytical Extension/Force curve of the Extensible Freely Jointed Chain Model (EFJC) and Worm-like Chain Model (EWLC)	Alessandro Fiasconaro
10:45-11:15		Coffee Break	
Session 7			
11:15-12:00	IT	Emergence of Irreversibility and Hydrodynamic behavior from the Quantum Many-Body Dynamics: Experimental Evidence from Loschmidt Echoes and Related Experiment	Horacio Pastawski
12:00-12:10		Flash Break	
12:10-12:35	СТ	Computing with memristive devices	Juan Pablo Carbajal
12:35-13:00	СТ	The versatile role of plastic crystals in light harvesting	Agur Sevink
13:00-15:00		Lunch Break	
Session 8			
15:00-15:45	ІТ	Finite-time dynamical phase transitions in non-equilibrium relaxation	Jan Meibohm
15:45-15:55		Flash Break	
15:55-16:20	СТ	Temperature and friction fluctuations inside a harmonic potential	Yann Lanoiselée
16:20-16:45	СТ	Resolving a single-atom "thermodynamic limit" in cavity QED: photon correlations and field distributions in the strong-coupling regime	Themistoklis Mavrogordatos
16:45-17:15		Coffee Break	

Wednesday, 21/09

Session 9			
09:00-09:45	IT	Scale-free correlations in the dynamics of a small ($N\sim 10000$) cortical network	Dante Chialvo
09:45-09:55		Flash Break	
09:55-10:40	ІТ	Dynamics, fractal geometry and the exponents of the Kardar-Parisi-Zhang equation	Fernando Oliveira
10:40-11:05	СТ	Natural time scales embedded in the mitoBK ion current dynamics	Łukasz Machura
11:05-11:35		Coffee Break	
Session 10			
11:35-12:20	IT	Collective dynamical regimes and synchronization transitions in spontaneous brain activity	Raffaella Burioni
12:20-12:45	СТ	Anomalous diffusion originated by two Markovian hopping-trap mechanisms	Gianni Pagnini