







Computational Physics of Confined Systems: From Life to Material Sciences June 24-26, 2024

Program

Zoom link

https://us06web.zoom.us/j/89631785051?pwd=g6gxmrIh4aA6Q5DJekjR2tOl4WsXTW.1

Conference ID: 896 3178 5051

Code: 616956

Tuesday, 24.06.2025

10-00 10-10	Opening: Sergiy Perepelytsya (Bogolyubov Institute for Theoretical Physics of the NAS of Ukraine) Maria Pilar de Lara-Castells (COSY COST Action Chair)
10-10 11-10	Aatto Laaksonen Stockholm University "Modeling polymers constrained by Nature"
11-10 12-10	Francesca Mocci University of Cagliari, Italy "Multiscale Molecular Modeling of DNA: Toward Simulating Its Naturally Confined Environment"
12-10 12-30	Coffee break
12-30 13-30	Sergiy Perepelytsya Bogolyubov Institute for Theoretical Physics of the NAS of Ukraine "Counterions confined in DNA nanomaterials: Insights form modeling and simulation"
13-30 14-30	Lunch
14-30 15-30	Sonja Grubisic University of Belgrade "Biomolecular Force Fields: Recent Advances in Nonstandard Amino Acid and Nucleic Acid Development"
15-30 16-30	Valeriya Trusova V.N. Karazin National University, Kharkiv, Ukraine "From molecular simulations to functional design: computational insights into theranostic protein-based nanostructures"
16-30 18-00	Evening Scientific Mixer









Wednesday, 25.06.2025

	10-00 11-00	Anna Shestopalova O.Ya. Usikov Institute of Radiophysics and Electronics of the NAS of Ukraine, Kharkiv, Ukraine "Drug Design and Repurposing: An Overview with Selected Examples"		
	11-00 12-00	Tetiana Bubon Bogolyubov Institute for Theoretical Physics of the NAS of Ukraine, University of Trieste, Italy "Modeling of the Structure and Dynamics of the DNA Hydration Shell"		
	12-00 12-30	Coffee break		
3	12-30 13-30	Ali Hassanali The Abdus Salam International Center for Theoretical		
		Physics, Trieste, Italy TBA		
	13-30 14-30	Lunch		
	14-30 15-30	Dmytro Piatnytskyi Posobynkov Jostitute for Theoretical Playing of the NAS		
	13-30	Bogolyubov Institute for Theoretical Physics of the NAS of Ukraine		
		"Quantum chemical calculations basics"		
	15-30	Piotr Żuchowski		
	16-30	Nicolaus Copernicus University, Poland "Molecular interactions with quantum chemistry methods"		
	16-30 18-00	Excursion for the participants attending in person		









Thursday, 26.06.2025

10-00 11-00	Andrij Baumketner Institute of Condensed Matter Physics of the NAS of Ukraine, Lviv, Ukraine "What can we learn about quantum dots from computer simulations?"				
11-00 12-00	Carlo Maria Carbonaro Physics Department in University of Cagliari, Italy "Experimental and computational characterization of carbon dots"				
12-00 12-30	Coffee break				
12-30 13-30	Valentyna Kuznetsova Department of Physics at the University of South Bohemia in Ceske Budejovice, Czech Republic "How to give a good presentation"				
13-30 14-30	Lunch				
14-30	Participant Presentations				
14-30 14-50	Dragan Popović "Energetics of steps in proton pumping mechanism of cytochrome c oxidase" University of Belgrade - Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia				
14-50 15-10	Yevhen Osokin "Features of dπ-pπ-BONDING OF Cu(I) π-complexes with some unsaturated acids" Bogolyubov Institute for Theoretical Physics of the NAS of Ukraine				
15-10 15-30	Aamir Saeed TBA Department of Geological and chmeical sciences, University of Cagliari				
15-30 15-50	Oleksandr Perig TBA Donbas State Engineering Academy				
15-50 16-10	Olha Vlasiuk TBA National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" Closing				
	Ciosing				