

Dynamics Days Central Asia and Caucasus International Conference

Monday, May 25, 2026 : Green Hall

08:50 - 09:00	Opening Ceremony: Dean, School of Sciences and Humanities, Professor Gonzalo Hortelano Professor Giulio Casati DDCAC Chair Davron Matrasulov
09:00 - 10:20	Session Chair Davron Matrasulov 09:00 – 09:40: Giulio Casati : <i>Rectification of Heat Current and Quantum Versus Classical Thermal Transport at Low Temperatures</i> 09:40 – 10:20: Igor S Aranson : <i>Partial Fluidization Theory of Collective Cell Migration</i>
10:20 - 11:00	COFFEE BREAK
11:00 - 12:20	Session Chair Davron Matrasulov 11:00 – 11:40: Hadi Susanto : <i>Supratransmissions: Teaching Old Dogs New Tricks in Nonlinear Wave Systems</i> 11:40 – 12:20: Jung-Wan Ryu : <i>From Directional Amplification to Spatiotemporal Chaos in Nonreciprocal Oscillator Networks</i>
12:20 - 14:00	LUNCH BREAK
14:00 - 15:20	Session Chair Mikhail N. Kiselev 14:00 – 14:40: Aikaterini Mandilara : <i>Tailoring Nonlinear Quantum Feature Maps for Kernel-Based Classification</i> 14:40 – 15:20: J. R. Yusupov : <i>Tunable quantum transport and soliton propagation in transparent networks</i>
15:20 - 16:00	COFFEE BREAK
16:00 – 18:00	Session Chair Mikhail N. Kiselev 16:00 – 16:40: Sergej Flach : <i>Thermalization Universality Classes</i> 16:40 – 17:20: Davron Matrasulov : <i>PT-symmetric physics in networks: From quantum transport to soliton propagation</i> 17:20 – 17:40: P. S. Muraev : <i>Destruction of interference-induced localization by dephasing in a diamond chain threaded by a synthetic magnetic flux: Restoration of steady-state current</i> 17:40 – 18:00: D. N. Maksimov : <i>Transient Chaos and Rayleigh Particle Escape out of an Optical Trap with time modulation</i>

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Tuesday, May 26, 2026: Green Hall

09:00 - 10:20	Session Chair Sergej Flach 09:00 – 09:40: Barbara Dietz : <i>The Semiclassical Approach for Nonrelativistic & Relativistic Quantum and Graphene Billiards</i> 09:40 – 10:20: Mikhail N. Kiselev : <i>Quantum noise and thermoelectricity in mesoscopic transport across a tunnel junction</i>
10:20 - 11:00	COFFEE BREAK
11:00 - 12:40	Session Chair Sergej Flach 11:00 – 11:40: Dimitris Syvridis : <i>True Random Number Generators: Requirements, Applications, Technologies</i> 11:40 – 12:20: Taegeun Song : <i>Interpretable Machine Learning for Hidden-State Inference in Complex Material and Biological Systems</i> 12:20 – 12:40: Jihye Kim : <i>Interpretable Signal Decomposition Using Sinusoidal Activation Perceptrons</i>
12:40 - 13:50	LUNCH BREAK
13:50 - 15:20	Session Chair Hadi Susanto Online 13:50 – 14:20: Boris Malomed : <i>Multidimensional Solitons</i> Online 14:20 – 14:50: Eckehard Schöll : <i>Coherence Resonance in Excitable Systems and Networks</i> Online 14:50 – 15:20: Matteo Marsilli : <i>Lost in retraining</i>
15:20 - 16:00	COFFEE BREAK
16:30 – 17:30	Public Lecture by Rafael Grossi , Director General of the International Atomic Energy Agency

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Wednesday, May 27, 2026: Orange Hall

16:00 – 18:00	Plenary Session Chair Davron Matrasulov Chang-Qi Ma: <i>Thermal- and Photo-Stability of Organic Solar Cells</i> Giulio Casati: <i>Classical to Quantum Transition and Thermodynamics of Infinite Dimensional Systems: The Electrodynamical Fermi Model</i> Igor Aranson: <i>Collective Behavior of Microrobotic Swarms with Long-Range Communications and Decision-Making</i>
19:00 – 22:00	Conference Dinner: <u>Wyndham Garden Hall</u>