

Mathematics Days at Moldova State University, AUGUST 24-25,2026

PROGRAMME		
MONDAY, AUGUST 24, EAST EUROPEAN TIME		
8.00 – 9.00	Registration	Building 4, 2 nd floor (1st floor EU), Hall
9.00 – 9.30	Opening ceremony	Room 405, Building 4
9.30-10.00	Elena Cuznetsov	100th anniversary of the birth of mathematician A.V. Kuznetsov
10.00-10.30	Coffee break - Building 4, 2 nd floor (1st Floor EU), Hall	
Workshop Mathematical Logic, Algebra and Geometry, dedicated to the centenary of Professor A.V. Kuznetsov, Room 213a, Building 4 (Online Session Link)		
	Chairperson:	Florin DAMIAN
10.30-11.10	Eugene Kuznetsov	Algebraic structures related with finite projective planes and prime power conjecture
11.10-11.50	Răzvan Lițcanu	Belyi functions, dessins d'enfants and applications in number theory
11.50-12.30	Alexander Guterman, Andrey Yurkov	Frobenius type theorems for Cullis determinant
12.30-13.10	Ioachim Drugus	A Calculus of Ideas for an Object-Oriented AI
Lunch break		
	Chairperson:	Parascovia SYRBU
14.30 - 15.00	Valeriu Popa	On some ideal extensions of topological rings

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15.00 - 15.20	Vladimir Arnautov, Galina Ermakova	Completeness of the factor group of a complete topological abelian group by a locally compact subgroup
15.20 - 15.40	Ivan Gutul	Construction methods of unbounded polytopes with finite volume in hyperbolic space
15.40 - 16.00	Elizaveta Zamorzaeva	Some dihedral tilings of the sphere by geodesic polygons
16.00 - 16.20	Florin Damian	On inversions' 2-lattices in hyperbolic space
<i>Common session of Mathdays at Moldova State University, Workshops 1&2 (Online Session Link)</i>		
16.30 – 17.10	Alexei Muravitsky	<i>A.V. Kuznetsov and the Birth of the Chisinau School of Mathematical Logic</i>
17.10 – 21.00	Banquet	
<i>Workshop Differential Equations and Operations Research, Room 405, Building 4 (Online Session Link)</i>		
	Chairperson:	Vasile GLAVAN
10.30-10.50	Yaroslav Bihun , Oleh Ukrainets	An epidemic model with impact of environmental factors
10.50-11.10	David Cheban	<i>Sp</i> (Stepanov) Remotely Almost Periodic Functions
11.10-11.30	Dumitru Cozma , Angela Matei	Center conditions for a cubic system with an algebraic solution
11.30-11.50	Peter Dovbush	Research in Geometric Function Theory at Moldova State University (2020–2026)
	Chairperson:	David CHEBAN
11.50-12.10	Vasile Glavan , Valeriu Guțu	On the pseudo-orbits tracing in linear dynamics
12.10-12.30	Cristina Bujac , Nicolae Vulpe	Configurations of invariant straight lines of a family of cubic systems with three real distinct infinite singularities

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12.30-12.50	Gabriela Lițcanu,	Propagation dynamics in a reaction-convection-diffusion model
Lunch break		
	Chairperson:	Nicolae VULPE
14.30-15.00	Joan C. Artes	Quadripedia: Encyclopedia on Quadratic Differential Systems
15.00-15.30	Igor V. Nikolaev	Quadratic differential systems and singular points of planar foliations
15.30-15.50	Joan C. Artes, Marcos C. Mota, Alex C. Rezende	Quadratic differential systems possessing an infinite elliptic-saddle or an infinite nilpotent saddle: global geometry and bifurcation diagrams
15.50-16.10	Andrei Sultan	Lagrange stability and almost periodicity criterion for $f \in C(\mathbb{R}, \ell^2)$.
16.10-16.30	Constantin Leu, Andrei Perjan	Singular perturbations of the linear 1D hyperbolic-parabolic type
Common session of Mathdays at Moldova State University, Workshops 1&2 (Online Session Link)		
16.30 – 17.10	Alexei Muravitsky	A.V. Kuznetsov and the Birth of the Chisinau School of Mathematical Logic
17.10 – 21.00	Banquet	
Workshop Computer Science and Artificial Intelligence, Room 145, Building 4 (Online Session Link)		
	Chairperson:	Ludmila NOVAC
10.30 – 10.45	Vsevolod Arnaut	Verifying attendance using specialized software
10.45 – 11.00	Mihail Croitor, Tudor Bragaru	Architecture of an AI agent for assessment of Open-Ended Questions
11.00 – 11.15	Radames Evdochimov	A Secure Event-Driven microservices platform with explainable AI for insurance: design and prototype validation
11.15 – 11.30	Vasyl Gorbachuk, Maksym Dunaievskyi, Seit-Bekir Suleimanov	Decision making in energy industry
11.30 – 11.45	Gheorghe Latul	The impact of Generative AI on teaching and learning in Computer Science

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	Chairperson:	Mihail CROITOR
11.45 – 12.00	Dan Lefter , Titu Capcelea	Design and functional evaluation of an AI-assisted system for academic thesis authoring and formatting compliance
12.00 – 12.15	Ludmila Novac	Artificial Intelligence: variety of applications, benefits and risks
12.15 – 12.30	Eugeniu Plamadeala , Inga Titchiev, Olesea Caftanatov, Dan Dancuta	AI-based plant disease classification system
12.30 – 12.45	Valeriu Ungureanu	Perceptual decomposition as an intermediate layer in audio-driven multimodal AI
12.45 – 13.00	Anastasiia Yuriichuk	Large Language Models for web accessibility: applications, challenges, and future directions
<i>Lunch break</i>		
	Chairperson:	Tudor BUMBU
14.00 – 14.30	Viorel Efros (Indra)	Utilizarea AI în industrie
14.30 – 15.00	Nicolae Moraru (ITCare)	Detection Is a Losing Game
15.00 – 15.30	Veaceslav Panfil (Endava)	Dincolo de hype: cum construim valoare reală cu Inteligența Artificială
15.30 – 16.00	Anton Perkin (FusionWorks)	AI in practice: business & life
16.00 – 16.30	Vasile Putina (Globant)	Lessons from Enterprise AI Adoption Across Industries
16.30 – 17.00	Vitalie Ursachi (AC Tech)	AI în finanțe, telecom și energie: lecții din teren despre de ce calitatea datelor decide succesul
TUESDAY, AUGUST 25, EAST EUROPEAN TIME		
<i>Workshop Mathematical Logic, Algebra and Geometry, dedicated to the centenary of Professor A.V. Kuznetsov, Room 213a, Building 4 (Online Session Link)</i>		
	Chairperson:	Eugen KUZNETSOV
9.00-9.30	Elena Cojuhari , Barry Gardner	On Matrix Representations Associated with D-Structures

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9.30-10.00	Cristian Ciulica	Cohomological and metric properties of Endo-Pajitnov manifolds
10.00-10.30	Vladimir Izbash, Fedir Sokhatsky	About some algebras of multiary operations
10.30-11.00	Tatiana Rotari, Parascovia Syrbu	On 4 – T – quasigroups with a prescribed number of distinct parastrophes
11.00 – 11.30	Coffee break – Building 4, 2 nd floor (1st floor EU), Hall	
	Poster session, room 222	
11.00 – 11.30	Postoronca Aureliu	On the classification of finite quasigroups satisfying additional conditions
11.00 – 11.30	Patlaciuc Anastasia	On a method of construction of finite orthogonal n-quasigroups
	Chairperson:	Vladimir IZBASH
11.30-12.00	Andrei Rusu, Elena Rusu	On precomplete in expressibility classes which are also precomplete in parametric expressibility in the provability logic G4
12.00-12.30	Teleuca Marcel, Smochina Vladislav	Generalizations of the Lucas and Wolstenholme Theorems for Olympiad Problems
12.30-13.00	Fedir Sokhatsky	A study of repetition-free decompositions of multiary functions: methods of Alexandr Kuznetsov and Valentin Belousov
Lunch break		
14.20 – 15.50	Round table: Mathematical logic tea time (moderators: Ion Negru, Ioachim Druguş, Olga Izbaş, Vadim Cebotari, Ion Cucu, Kuznetsov family)	
Common session of Mathdays at Moldova State University, Workshops 1&2 (Online Session Link)		
15.50-16.20	Igor Cialenco	Dynamic Groundwater Markets

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<i>Workshop Differential Equations and Operations Research, Room 405, Building 4 (Online Session Link)</i>		
	Chairperson:	Mihail POPA
9.00-9.20	Natalia Neagu, Mihail Popa	The functional basis of centro-affine mixed comitants for the ternary differential system with homogeneity of degree four $s_3(4)$
9.20-9.40	Natalia Neagu, Ruslan Trocin	General solution for the ternary differential systems with nonlinearities of degree 2,3,4 of Lotka-Volterra-Darboux type on centro-affine manifolds
9.40-10.00	Olga Vacaraș	Center problem for quadratic differential systems with an invariant straight line of multiplicity two and the line at infinity of maximal multiplicity
10.00-10.20	Victor Pricop	An ordinary Hilbert series for Sibirsky graded algebras of invariants and comitants of the differential systems (4)
10.20-10.40	Lidia Mușinschi	First integrals for a ternary cubic differential system of the Darboux type
10.40-11.00	Valerii Dryuma	On the geometry of moduli spaces of algebraic curves defined by solutions of the KP-Equation
11.00 – 11.30	<i>Coffee break – Building 4, 2nd floor (1st floor EU), Hall</i>	
	Chairperson:	Dmitrii LOZOVANU
11.30-11.50	Alexander Kolesnik	Asymptotic behavior of the marginal of the planar Markov random flight on long time interval
11.50-12.10	Anastasiia Storozhenko, Petro Stetsyuk	r-Algorithm for minimization of convex functions with linear equalities
12.10-12.30	Dmitrii Lozovanu	An approach for solving disjoint bilinear programming problem with an acute-angled polytope for a disjoint subset

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12.30-12.50	Dan Stratila	A computational comparison of mixed-integer formulation for concave piecewise linear function
13.00 – 14.30	<i>Lunch break</i>	
	Chairperson:	Alexandra TKACENKO
14.30-14.50	Boris Hancu	The impact of information in static game theory
14.50-15.10	Viktor Godliuk , Dmytro Rybachok	Application of the minimum cost flow principle in the architecture of cross-border electricity market coupling
15.10-15.30	Alexandru Lazari	Nested stochastic systems with final sequences of states
15.30-15.50	Alexandra Tkacenko	Fuzzy fractional multi-criteria transportation problem of "bottleneck" type
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