



International Conference of Young Mathematicians

June 3–5, 2026

Wednesday, 3th of June

Kyiv Time UTC+3	<p><i>The opening ceremony will be held at the Institute of Mathematics (3, Tereshchenkivska Str., Kyiv).</i> <i>You can also join online</i> Meeting ID: 878 7674 4416 Access code: ICYM2026</p>
10:00–10:30	<p><i>Opening Ceremony</i></p>
10:30–10:50	<p><i>Kateryna Antoshyna</i> Edge-maximal graphs with even distances between non-cut vertices</p>
10:55–11:15	<p><i>Anastasiia Hrabovets</i> Multistability and energy optimization in a gradient Kuramoto-type model</p>
11:20–11:40	<p><i>Volodymyr Kuzko</i> Invertibility of quantum channels induced by a family of projections</p>
11:45–12:05	<p><i>Mykola Staryi</i> Newtonian-type systems invariant with respect to $sl(2, \mathbb{C})$ and their limit cases</p>

12:10–12:30	<i>Mykhailo Chuiko</i> Conditions for the solvability of the Sylvester matrix equation		
12:35–12:55	<i>Mykola Lysynskiy</i> Differentiable structures on line with $n+1$ origins		
13:00–13:20	<i>Sofia Ratushniak</i> A Cantor-type function defined in terms of the A_s -continued fraction representation of numbers		
13:25–13:45	<i>Bohdan Feshchenko</i> Stabilizers of Morse-Bott functions on surfaces and their homotopy type		
13:50–15:00	<i>Lunch time</i>		
	Algebra, Geometry and Topology Chairperson: <i>Bohdan Mazhar</i>	Differential Equations and Mathematical Physics Chairperson: <i>Yevhenii Chapovskyi</i>	Probability and Statistics Chairperson: <i>Mykola Vovchanskyi</i>
	Meeting ID: 878 7674 4416 Access code: ICYM2026 Room A	Meeting ID: 878 7674 4416 Access code: ICYM2026 Room B	Meeting ID: 878 7674 4416 Access code: ICYM2026 Room C
15:00–15:20	<i>Dmytro Karvatskyi</i> An aperiodic tiling based on interior properties of self-similar sets	<i>Olga Chepok</i> Rapidly varying solutions of second order differential equations with the product of regularly and rapidly varying nonlinearities of an unknown function and Its first-order derivative	<i>Vadym Tkachenko</i> Extension of birth-and-death semi-Markov processes beyond the moment of explosion

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15:25–15:45	<i>Denys Lohvynov</i> On the existence of regular K3-regular graphs	<i>Oksana Palianytsia</i> A combined Rothe-RBFm Method for solving parabolic integro-differential equations with a weakly singular kernel	<i>Ievgen Karnaukh</i> On canonical factorization for a Poisson process on a finite Markov chain
15:50–16:10	<i>Vladyslav Haponenko</i> All-path convexity: invariants on graphs and hypergraphs	Oksana Satur Minimum loss strategy in the conflict game: the uniform defense	<i>Valeriya Kotelnikova</i> On tail behavior of infinite sums of independent indicators
16:15–16:35	<i>Roman Skurikhin</i> Convolution equations for the Euler copolynomial	<i>Mykhailo Kadubovskiy</i> A two-step iteration scheme with increased convergence rate for solving nonlinear matrix levels	<i>Boris Manikin</i> Regularity of solutions to some equations driven by general stochastic measures
16:40–17:00	<i>Katherina von Dichter</i> Mixed volume inequalities for Zonoids	<i>Grzegorz Kuduk</i> Problem with integral condition for homogeneous system of partial differential equations of third order in Sobolev space	<i>Ihor Chulakov</i> Skorokhod reflection problem on a graph
17:05–17:25	<i>Illia Ovtsynov</i> Structure of gradient flows with a double saddle on the sphere with holes		<i>Mykyta Sadok</i> Poisson limit theorems for peelings in generalized convex hulls

Thursday, 4th of June

	Algebra, Geometry and Topology	Differential Equations and Mathematical Physics	Probability and Statistics	Applied and Computational Mathematics
	Chairperson: <i>Mykola Lysynskiy</i>	Chairperson: <i>Vitalii Soldatov</i>	Chairperson: <i>Kateryna Hlyniana</i>	Chairperson: <i>Ihor Raynovskiy</i>
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11:00–11:20	<i>Mykola Heneralov</i> Criterion for the existence of a unique solution to the initial problem for an implicit linear first-order difference equation over a finite commutative ring with unity	<i>Iryna Chepurukhina</i> On interpolation of some spaces associated with abstract and elliptic operators	<i>Andrii Poberezhets</i> Joint asymptotic normality of drift estimators for the CKLS Model	<i>Eugene Oshkodorov</i> Mathematical and algorithmic support for the integration of MLP and SOM neural network models for the analysis of multidimensional geophysical data
11:25–11:45	<i>Anna Goncharuk</i> Implicit linear difference equations with generalized periodic inhomogeneity over commutative rings	<i>Olena Atlasiuk</i> On weak solutions for a singular beam equation	<i>Daniel Horbunov</i> Local linear regression for contaminated regression mixture	<i>Denys Shpylka</i> A variational view of visually correctable Gaussian world models

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11:50–12:10	<i>Bohdan Mazhar</i> Homotopy structure of orbits of smooth functions lifted to an orientable double cover	<i>Viktor Chuiko</i> Linear normally solvable boundary value problem with degenerate impulse action	<i>Vitaliy Miroschnychenko</i> Differentiable upper bound function framework for surrogate mixing probabilities construction in a model of mixture of varying concentrations	<i>Dominika Laszuk</i> On the mathematical foundations and geometric interpretation of principal component analysis
12:15–12:35	<i>Andrii Plaksin</i> Rings 2-euclidean range 1	<i>Vlada Kuzmina</i> Regularization of an integro-differential boundary value problem unsolved with respect to the derivative	<i>Oleksandr Poberezhets</i> Tempered fractional Ornstein-Uhlenbeck processes	<i>Maksym Kyselov</i> Numerical differentiation of bivariate functions by Chebyshev polynomial expansions
12:40–13:00	<i>Mykhailo Koreshkov</i> Local hull visualisation for a one-dimensional quasicrystal	<i>Daria Diachenko</i> Application of the Adomian decomposition method for solving a nonlinear boundary value problem in the case of parametric resonance	<i>Kateryna Kustarova</i> Approximation of stochastic differential equations with interaction based on the Monte Carlo method	<i>Ivan Hryshchenko</i> Optimization of short-term electricity consumption forecasting using cluster decomposition of daily profiles
13:05–13:25	<i>Mykola Moroz</i> The fractal quasi-equivalence principle for the classical and modified Engel expansions		<i>Dmytro Dorogovtsev</i> On distinguishing Ising-type distributions	
13:30–15:00	<i>Lunch time</i>			

	Algebra, Geometry and Topology	Differential Equations and Mathematical Physics	Probability and Statistics	Theory of Functions and Functional Analysis	Applied and Computational Mathematics
	Chairperson: <i>Iryna Kuznietsova</i>	Chairperson: <i>Oksana Satur</i>	Chairperson: <i>Georgii Riabov</i>	Chairperson: <i>Mariia Stefanchuk</i>	Chairperson: <i>Maksym Kyselov</i>
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15:00–15:20	<i>Andrii Soloviov</i> On embeddings of affinor-semisymmetric spaces into flat spaces	<i>Vitalii Soldatov</i> On d-characteristics of the high-order boundary-value problems in spaces of differentiable functions	<i>Chengbo Sun</i> Density convergence of spatial average of a solution to one dimensional stochastic wave equation	<i>Olena Nikorak</i> The class of continuous functions of unbounded variation defined in terms of continued fraction representations of real numbers	<i>Ilmi Seit-Dzhelil</i> Impact of the delay on the limit sets of the non-ideal system “tank with liquid - electric motor”
15:25–15:45	<i>Oleksandr Pypka</i> On the structure of some one-generated Leibniz rings	<i>Arkadii Marchenko</i> Genetic programming for the boundary reconstruction in case of the heat equation	<i>Qingsong Wang</i> Small deviations for integrators in terms of Itô-Wiener expansions	<i>Oleg Kovalenko</i> Fixed points theorems in Hausdorff <i>M</i> -distance spaces	<i>Oleksii Horchakov</i> Influence of delay factors on the dynamics of the “spherical pendulum–electric motor” system

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15:50–16:10	<i>Serhii Stas</i> Morse and codimension 1 functions on the projective plane	<i>Oleksandra Lokaziuk</i> Group classification of nonlinear evolutionary equations $u_t=H(u_{xx})$ and $u_t+uu_x=H(u_{xx})$	<i>Andrii Bobrov</i> Kantorovich-Rubin- stein distance on Gaussian spaces	<i>Vitalii Hrytsuliak</i> On lower and upper estimates of zeros for the second derivative of the Lindelof function	<i>Oleh Samoilenko</i> Sensor Fusion for Mobile Robot Localization via Kalman Filtering
16:15–16:35	<i>Oleh Tyshchenko</i> Polynomial vector fields tangent to a K-plane as a maximal Lie subalgebra	<i>Oleksandr Voloshyn</i> Classification of symmetry properties of a class of systems of diffusion equations	<i>Hennadii Navrotskyi</i> Higher-order moments of the winding number of the Gaussian random field along a smooth curve	<i>Andrii Bodnarchuk</i> On the stability of the maximum term of functional series in a system of functions	<i>Olena Dovzhyk</i> Math international trade model
16:40–17:00	<i>Andriana Plakosh</i> Representations of Munn algebras and related semigroups	<i>Serhii Koval</i> Conservation laws of multi-layer quasi-geostrophic problem	<i>Kyrylo Kuchynskyi</i> Functional inequalities for stochastic differential equations with interaction	<i>Sviatoslav Dubei</i> On the absence of an exceptional set in the main relation of Wiman-Valiron theory	<i>Suleyman Cengizci</i> Enhancing shock resolution in the Sod shock tube problem via the PASSC framework

Friday, 5th of June

	Differential Equations and Mathematical Physics	Theory of Functions and Functional Analysis	Applied and Computational Mathematics
	Chairperson: <i>Oleksandra Lokaziuk</i>	Chairperson: <i>Iryna Denega</i>	Chairperson: <i>Oleksandr Lahodzynskyi</i>
	Meeting ID: 878 7674 4416 Access code: ICYM2026 Room B	Meeting ID: 878 7674 4416 Access code: ICYM2026 Room D	Meeting ID: 878 7674 4416 Access code: ICYM2026 Room E
11:00–11:20	<i>Oleksandra Vinnichenko</i> Symmetry properties of asymmetric Nyzhnyk models	<i>Bartosz Łanucha</i> On de Branges-Rovnyak spaces and their decompositions	<i>Zinaida Zhuravlova</i> The axisymmetrical poroelasticity problem for a solid cylinder with a thin interface
11:25–11:45	<i>Yevhenii Chapovskyi</i> Point symmetries of Kadomtsev-Petviashvili equation	<i>Markiyan Dobushovskyy</i> Equivalence of three topologies in spaces of Laplace-Stieltjes integrals	<i>Dmytro Kushnir</i> Numerical simulation of airfoil flow based on the Navier-Stokes equations
11:50–12:10	<i>Jean de Dieu Maniraguha</i> Point symmetry pseudogroups of linear Schrödinger equations with complex time-independent potentials	<i>Yelyzaveta Sviatovets</i> Forward and inverse Crum transformation of the Laguerre operators	<i>Yurii Yanchynskyi</i> MFS-based numerical scheme with Laguerre time semi-discretization for 2D wave processes in channels
12:15–12:35	<i>Olga Pelekhata</i> On the Kiguradze theorem for linear boundary-value problems	<i>Mariia Stefanchuk</i> On power and logarithmic estimates of distance distortion	<i>Yurii Kozlovskyi</i> A sinc-quadrature method for Neumann problem for Laplace equation in a planar domain using single-layer potential

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12:40–13:00		<i>Yuliia Myslo</i> Expansion of the functions tgz , $ctgz$, thz , $cthz$ into a continued fraction using solutions to the Thiele-Hermite problem	
Kyiv Time UTC+3	<i>The closing ceremony will be held online</i> Meeting ID: 878 7674 4416 Access code: ICYM2026		
13:30–13:50	<i>Closing Ceremony</i>		