



Workshop for Young Researchers in Mathematics

14th edition, May 15-16, 2025

ANALYSIS, PDES & APPLIED MATHEMATICS – SCHEDULE –

All talks will be held in: Sala de Conferințe a Facultății de Matematică.

Thursday, May 15

9:50	Welcome to WYRM2025! Opening remarks by Prof. Dr. Răzvan Lițcanu in the Myller Amphitheater
10:00-10:30	Adina Ciomaga , Octav Mayer Institute & Université de Paris <i>Homogenisation of integro-differential equations</i>
10:30-11:00	Alberto Corella , Technische Universität Wien <i>Invariance theory in the space of probability measures and mean-field dynamics</i>
11:00-11:30	Morning Coffee Break
11:30-12:00	Vlad Margarint , University of North Carolina at Charlotte <i>A bridge between Random Matrix Theory and Schramm-Loewner Evolutions Theory</i>
12:00-12:30	Eduard Curcă , University of Warsaw <i>Bourgain-Brezis type solutions via real interpolation</i>
12:30-14:30	Lunch Break
14:30-15:00	Anisia Teca , University of Craiova <i>On a Rayleigh-type quotient involving a variable exponent which depends on test functions</i>
15:00-15:30	Dragoș Manea , IMAR <i>Mesh-free method for Dirichlet eigenpairs of the Laplacian with potential on star-shaped domains</i>
15:30-16:00	Afternoon Coffee Break
16:00-16:30	Teodor Rugină , University of Bucharest & ISMMA <i>Sharp second order inequalities with distance function to the boundary</i>
16:30-17:00	Bogdan Maxim , University of Craiova <i>A general quasilinear elliptic problem with variable exponents and Neumann boundary conditions for image processing</i>
17:00-17:30	Teodora Baci , Alexandru Ioan Cuza University <i>Control strategies for the stabilization of a predator population in a reaction-diffusion system</i>



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Friday, May 16

9:30-10:00	Trí Minh Lê , Technische Universität Wien <i>Solvability of discounted global Eikonal equations</i>
10:00-10:30	Ana Maria Adelina Călina , University of Bucharest & IMAR <i>Regularity of elliptic equations with singular coefficients</i>
10:30-11:00	Radu Ordean , University of Bucharest <i>A Hardy-Hénon equation with non-linearity</i>
11:00-11:30	Morning Coffee Break
11:30-12:00	Andrei-Florin Albișoru , Babes-Bolyai University <i>On the Navier problem for the anisotropic Stokes equations and for the anisotropic Navier-Stokes equations</i>
12:00-12:30	Andrei Gasparovici , Babes-Bolyai University <i>Physics-informed neural networks for personalized hemodynamics modeling</i>
12:30-12:40	Group Photo
12:40-14:30	Lunch Break
14:30-15:00	Mihai Aron , Babes-Bolyai University <i>An extension operator of Roper-Suffridge and Graham-Kohr type</i>
15:00-15:30	Andreea Dima , IMAR <i>Finite Element Approximation of the Fractional Sobolev Constant</i>
15:30-16:00	Afternoon Coffee Break
16:00-16:30	Nicoleta Dumitru , University of Bucharest <i>Quantitative results on the subgradient extragradient method</i>
16:30-17:00	Radu-Adrian Mihai , University Politehnica Bucharest <i>A time-based direct-segment air traffic trajectory model</i>
17:00-17:30	Alexandru Pîrvuceanu , Babes-Bolyai University <i>Hypercontractivity of the Heat Flow on $RCD(0, N)$ Spaces</i>