

Workshop for Young Researchers in Mathematics

13th edition, May 23-24, 2024

Analysis, PDEs & Applied Mathematics - Schedule -

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

Thursday, May 23

9:50	Welcome to WYRM2024! Opening remarks by Prof. Dr. Răzvan Liţcanu in the Myller Amphitheater
10:00-10:30	Ovidiu-Neculai Avădanei, University of California, Berkeley Low regularity well-posedness for the generalized surface quasi-geostrophic front equation
10:30-11:00	Dragoş Manea, IMAR Atmospherical frontogenesis in vortex liquid mixing and optimal placement
11:00-11:30	Morning Coffee Break
11:30-12:00	Anisia Teca, University of Craiova The limiting behavior of constrained minimizers in variable exponent spaces
11:50-12:30	Teodor Rugină , University of Bucharest Hardy-Rellich Inequalities in domains of \mathbb{R}^N and applications
12:30-14:30	Lunch Break
14:30-15:00	Eduard Curcă, Alexandru Ioan Cuza University Pathological sums of Sobolev spaces and some counterexamples
15:00-15:30	Bogdan Raiţă, Georgetown University Self improving size estimates in compensated compactness
15:30-16:00	Afternoon Coffee Break
16:00-16:30	Liviu Ignat, IMAR & ICUB, University of Bucharest Approximations of the best constants



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Friday, May 24

10:00-10:30	Geanina Maria Lăchescu, University of Craiova Jensen-Steffensen's inequalities in the context of majorization theory and in spaces with a curved geometry
10:30-11:00	Andrei Gasparovici, Babes-Bolyai University Mixed Dirichlet-Robin problem for coupled anisotropic Darcy- Forchheimer-Brinkman equations
11:00-11:30	Morning Coffee Break
11:30-12:00	Mihai Bucătaru, University of Bucharest & ISMMA Accelerated iterative algorithms for the Cauchy problem in steady-state anisotropic heat conduction
12:00-12:30	Andreea Dima, IMAR Isoperimetric problems on the square and hexagonal lattices
12:40	Group Photo – @ the fountain entrance
12:40-14:30	Lunch Break
14:30-15:00	Radu-Adrian Mihai, Politehnica University of Bucharest A 2D + time mathematical model for multiphase optimization of air traffic trajectory and sequence
15:00-15:30	Dan Paraschiv, IMAR & IMFM Ljubljana On a Mandelbrot-like set for a family of exponential maps
15:30-16:00	Afternoon Coffee Break