## Day of Doctoral Students of the School of Mathematics Charles University, Faculty of Mathematics and Physics

## June 9, 2025

## Conference schedule

Time	Speaker	Stud.	Yr.	Lecture title
08:30-08:35	Opening			
08:35-08:55	Tomáš Hammerbauer	P4M6	1	Domain decomposition preconditioners for the Discontinuous Galerkin method
08:55-09:15	Anwesh Pradhan	P4M6	2	Nonconforming virtual element method for the fully nonlinear Monge-Ampère equation
09:15-09:35	Manoj Prakash	P4M6	2	Computation of stabilization parameters using machine learning
09:35-09:55	Ioannis Thanasis	P4M6	2	HPC and Davidson method
09:55-10:15	Lenka Košárková	P4F11	1	Multicomponent flow in lungs
10:15-10:40	Coffee break			
10:40-11:00	Antonio Del Donno	P4M2	1	Principal bundles and differential structures in noncommutative geometry
11:00-11:20	Daniel Komárek	P4M2	1	LCH capacities and Lagrangian cobordisms
11:20-11:40	Michal Molnár	P4M2	1	Lie group approach to envelope surfaces
11:40-12:00	Ange Zugmeyer	P4M2	1	Generic actions on the Cantor space
12:00-13:00	Lunch break		-	
13:00-13:20	Willy Svoboda	P4M9	1	Conformal prediction and optimal transport
13:20-13:40	Aneta Kostárová	P4M9	2	Specification tests for integer-valued time series
13:40-14:00	Hedvika Ranošová	P4M9	2	Testing for abrupt and gradual location changes in functional time series
14:00-14:20	Kristína Sakmárová	P4M9	2	Factor selection in screening designs
14:20-14:40	Coffee break			
14:40-15:00	David Kubíček	P4M3	1	Interpolation between Lorentz spaces
15:00-15:20	Tomáš Raunig	P4M3	1	Almost-invariant elements of group actions on Lip0 spaces
15:20-15:40	Ladislav Drážný	P4M3	2	Reduction principle for potential convolution operators
15:40-16:00	Lucie Wintrová	P4F11	1	Existence and time continuity in non-Newtonian heat-conducting flow models
16:00-16:20	Coffee break			
16:20-16:40	Martin Boroš	P4M1	2	Morita theory for contramodules
16:40-17:00	Dominik Krasula	P4M1	2	Matrix representations of finite Frobenius rings
17:00-17:20	Om Prakash	P4M1	2	Consecutive real cyclotomic fields with large class numbers
17:20-17:40	Yağmur Sak	P4M1	2	Normal bases over finite fields