

## Section

### “Mathematics, Statistics, and Data Science and Their Interdisciplinary Applications”

#	Time	Speaker	Title	Type
1	9:00	Elina Bulina	Some Problems on Optimal Domino Arrangements	oral
2	9:15	Rolands Brēža	Mathematical Model of the Martindale Abrasion test	oral
3	9:30	Staņislavs Stroževs	Ergodicity of thermostated linear charge dynamics in a semi-classical Hamiltonian lattice model	oral
4	9:45	Filips Kozirevs	Data-driven Koopman analysis of the free rigid body dynamics	oral
5	10:00	Aleksejs Antoņuks	Existence of a nonnegative solution for a higher-order $(p,q)$ -Laplacian system with nonlocal boundary conditions	oral
6	10:15	Sergey Smirnov	On the solvability of a third-order differential system with coupled integral boundary conditions via the Leray-Schauder continuation principle	oral
<b>Break</b>				
7	11:00	Janis Valeinis	Detecting Volatility Change-Points Using Empirical Likelihood	oral
8	11:15	Ēriks Vilunas	Empirical likelihood in structural equation modeling	oral
9	11:30	Sofiia Lukashevych	Empirical Likelihood Residual Bootstrap Method	oral
10	11:45	Ekaterina Vedennikova	Data-driven methods for detecting structural changes in dynamical systems	oral
11	12:00	Māris Mārtiņš	Applying SNP markers associated with feed conversion ratio to develop machine learning algorithms for genomic selection in Latvian sheep breeds.	oral
12	12:15	Māris Krastiņš	Fuzzy Approach Based Model for Assessment of Risks of Energy Price Dynamics	oral
<b>Poster session</b>				
		Kristīne Akopjana	Empirical likelihood quantile inference with applications in insurance	poster
		Reinis Alksnis	Closed-Form Bartlett Correction for Blockwise Empirical Likelihood under AR(1) Dependence	poster
		Inese Bula	Chaotic Simple Neuron Model with Periodic Coefficients	poster
		Jānis Gredzens	Quantile Inference in ANOVA Using Empirical Likelihood	poster
		Agnete Saule	Maximal polyiamonds - heptagons	poster