

PROGRAMME IN BRIEF

The conference will be held on September 23-25, 2026
in A. Mickevičius st. 37, Kaunas.

September 23, 2026

<i>Time</i>	<i>Programme</i>
9.00 – 9.30	Registration of participants
9.30 – 10.15	Opening of the conference
10.15 – 11.15	Plenary presentation. Dr. Kęstutis Česnavičius
11.15 – 11.45	Coffee break
11.45 – 12.45	Plenary presentation. Dr. Farzad Radmehr
12.45– 14.15	Lunch break
14.15– 15.45	Work in sections
15.45– 16.15	Coffee break
16.15 – 17.45	Work in sections

September 24, 2026

<i>Time</i>	<i>Programme</i>
9.00 – 10.00	Plenary presentation. Habil. dr. Artūras Štikonas
10.00 – 11.00	Plenary presentation. Dr. Daniel Hlubinka
11.00 – 11.30	Coffee break
11.30 – 12.30	Plenary presentation. Dr. Kasia Rejzner
12.30 – 14.00	Lunch break
14.00 – 15.30	Work in sections
15.30 – 16.00	Coffee break
16.00 – 17.30	Work in sections
18.30	Conference evening "Come together"

September 25, 2026

<i>Time</i>	<i>Programme</i>
10.00	Community event "Along the paths of Prof. H. Minkowski in Kaunas"

DETAILED PROGRAMME OF THE CONFERENCE

Plenary presentations

will be held in the historic Aula,
A. Mickevičius st. 37, Kaunas

September 23, 2026

<i>Time</i>	<i>Keynote Speaker</i>	<i>Title</i>
10:15 – 11:15	Dr. Kęstutis Česnavičius, Sorbonne Université, France	Torsors over Smooth Varieties for Smooth Algebraic Groups.
<i>Coffee break</i>		
11:45 – 12:45	Dr. Farzad Radmehr, Norwegian University of Science and Technology	Task Design Principles in Mathematics Education: Generic and Domain-Specific Perspectives

September 24, 2026

<i>Time</i>	<i>Keynote Speaker</i>	<i>Title</i>
9:00 – 10:00	Habil. dr. Artūras Štikonas, Vilnius University, Lithuania	M-matrices and Discrete Problems with Nonlocal Boundary Conditions
10:00 – 11:00	Dr. Daniel Hlubinka, Charles University Prague, Czechia	Optimal Transport and Testing
<i>Coffee break</i>		
11:30 – 12:30	Dr. Kasia Rejzner, University of York, England	pQFT – a New Perspective

Section

Arithmetic Algebraic Geometry

September 23, 2026

106 room, Mickevičiaus g. 37, Kaunas

Chair: Jörg Brüdern

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:15–15:00	Augustinas Jacovskis, Vilnius University, Lithuania	Categorical Torelli Theorems for Higher Picard Rank Fano Double Covers
15:00–15:45	Iason Kountouridis, Institut de Mathématiques de Jussieu - Paris Rive Gauche, France	Higher F-injective and F-rational Cone Singularities
<i>Coffee break</i>		
16:15–17:00	Federico Scavia, CNRS, Université Sorbonne Paris Nord, France	Torsors under Smooth Algebraic Groups over the Affine Line
17:00–17:45	Anis Zidani, Institut de Mathématiques de Jussieu-Paris Rive Gauche, France, Alexandre Lourdeaux, SUSTech International Center for Mathematics	Conjecture I for Unirational Algebraic Groups over Imperfect Fields

September 24, 2026

106 room, Mickevičiaus g. 37, Kaunas

Chair: Jörg Brüdern

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:00–14:45	Žygimantas Baronėnas, Paulius Drungilas, Jonas Jankauskas, Vilnius University, Lithuania	No Three Algebraic Conjugates of Degree Sixteen Sum to Zero
14:45–15:30	Artūras Dubickas, Albertas Zinevičius, Vilnius University, Lithuania	Squares in a Hyperplane of a Field
<i>Coffee break</i>		
15:30–16:15	Jörg Brüdern, Georg-August University of Göttingen, Germany	Manin's Conjecture via the Torsor: Recent Perspectives
16.15 -	General Discussion	

Section Mathematical Physics

September 23, 2026

208 room, Mickevičiaus g. 37, Kaunas

Chair: Dorothea Bahns

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:15–15:00	Wojciech Dybalski, AMU Poznan, Poland	How to Quantize Fields? Insights from the Balaban Approach
15:00–15:45	Fabrizio Zanella, University of Potsdam, Germany	Renormalisation of the Higher Currents of the Sine-Gordon Model in pAQFT
<i>Coffee break</i>		
16:15–17:00	Stefano Galanda, University of York, England, Nicola Pinamonti, University of Genoa, Italy	Equilibrium States for Non Relativistic Bose Gases and the Gross-Pitaevskii Limit
17:00–17:45	Audrius Jutas, Kaunas University of Technology, Lithuania	Scalling Space Time of Non-Equilibrium System in the Complex p-Normed L_p Section

September 24, 2026

208 room, Mickevičiaus g. 37, Kaunas

Chair: Dorothea Bahns

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:00–14:45	Ryszard Nest, University of Copenhagen, Denmark	On Rieffel Type Strict Deformation Quantisation of the Symplectic Two-Sphere
14:45–15:30	Vidas Regelskis. University of Hertfordshire, England, Vilnius University, Lithuania	Drinfeld Current Presentation of Twisted Yangians
<i>Coffee break</i>		
16:00–16:45	Manuel Hohmann, University of Tartu, Estonia	Geometric Generalization of the Vainberg-Tonti Lagrangian
16:45–17:30	Grigalius Taujanskas, University of Cambridge, England, University of Crete, Greece	Conformal Geometry in General Relativity

Section
Applied mathematics

September 23, 2026

003 room, Mickevičiaus g. 37, Kaunas

Chair: Minvydas Kazys Ragulskis

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:15–15:00	Robertas Alzbutas, Jurgita Dabulytė-Bagdonavičienė, Gintarė Vaidelienė, Edvinas Juozapaitis, Tomas Iešmantas, Kaunas University of Technology, Lithuania	Inverse Modelling and Parameter Prioritization in Reduced Electrochemical Battery Dynamics
15:00–15:45	Liepa Bikulčienė, Gintaras Stankevičius, Jurgita Dabulytė-Bagdonavičienė, Austėja Jakimavičiūtė, Kaunas University of Technology, Lithuania	Vision-Based Movement Analysis for the REMO Project
<i>Coffee break</i>		
16:15–17:00	Lukas Malakauskas, Kristina Štutienė, Kaunas University of Technology, Lithuania	TS-CoLIME: Enhancing Time- Series Explainability for Black-Box Forecasting Models via Structured Copula Sampling
17:00–17:45	Karolina Kanišauskienė, Vilnius University Šiauliai Academy	Linguo-Statistical Analysis of Author Identity in a Single Prose Work

September 24, 2026

003 room, Mickevičiaus g. 37, Kaunas

Chair: Minvydas Kazys Ragulskis

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:00–14:45	Gytis Jančaitis, Liepa Bikulčienė, Karolina Armonaitė, Kaunas University of Technology, Lithuania	Reconstruction of a Missing EEG Channel Using Interpolation Methods: A Comparative Analysis
14:45–15:30	Paulina Sabanskytė, Mantas Landauskas, Kaunas University of Technology, Lithuania	A Numerical Glimpse into the Toeplitz Decomposition
<i>Coffee break</i>		
16:00–16:45	Ernestas Uzdila, Kaunas University of Technology, Lithuania	Computational Artifacts in the Dynamics of the Fractional Difference Logistic Map
16:45–17:30	Žydrūnas Bautronis, Robertas Alzbutas, Kaunas University of Technology, Lithuanian Energy Institute Lithuania	A Reinforcement Learning Framework for Sequential Optimization under Operational Constraints

Section
Applied mathematics

September 23, 2026

004 room, Mickevičiaus g. 37, Kaunas

Chair: Tadas Telksnys

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:15–15:00	Olga Štikonienė, Abdalaziz Bakhit, Artūras Štikonas, Vilnius University, Lithuania	Solving 2D Poisson Equation with Multiple Integral Boundary Conditions via Finite Differences
15:00–15:45	Mindaugas Kavaliauskas, Kaunas University of Technology, Lithuania	A Cluster Transition-Based Criterion for Determining the Optimal Number of Clusters
<i>Coffee break</i>		
16:15–17:00	Tadas Telksnys, Kaunas University of Technology, Lithuania	Single-Impulse Suppression of Chaos in a Fractional Rulkov Neuron Model
17:00–17:45	Gabija Pranaitytė, Daiva Petkevičiūtė-Gerlach, Kaunas University of Technology, Lithuania	Preventing DNA Self-Overlap in Constrained Energy Minimization of Nucleosomal DNA

September 24, 2026

004 room, Mickevičiaus g. 37, Kaunas

Chair: Tadas Telksnys

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:00–14:45	Aleksejus Mihalkovich, Lina Dindiene, Eligijus Sakalauskas, Kaunas University of Technology, Lithuania	Implementation of Learning with Errors in Non-Commuting Multiplicative Groups
14:45–15:30	Ugne Orinaite, Rasa Smidtaite, Minvydas Ragulskis, Kaunas University of Technology, Lithuania	Fractional Memory Effects and Hierarchical Divergence Structures in Nilpotent Matrix Maps
<i>Coffee break</i>		
16:00–16:45	Kristina Poškvienė, Kaunas University of Technology, Lithuania	Geometry-Based Attractor Reconstruction from Finite Observation Windows and Its Applications to Complex Time Series
16:45–17:30	Rita Baublienė, Minvydas Kazys Ragulskis, Kaunas University of Technology, Lithuania	Short-term Time Series Prediction Based on Prony Polynomials with Internal Smoothing

Section Mathematical Statistics and Econometrics

September 23, 2026

209 room, Mickevičiaus g. 37, Kaunas

Chair: Miloš Kopa

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:15–14:45	Alfredas Račkauskas, Vilnius University, Lithuania	Asymptotic of Minkowski Sums of Random Compact Sets
14:45–15:15	Matúš Maciak, Charles University Prague, Czechia	Beyond Traditional Stochastic Reserving: A Conformal Perspective
15:15–15:45	Petr Vejmelka, Charles University Prague, Czechia	Multivariate Loss Reserving for Sub-Annual Data: Deriving the m-Step MSE of Claims Development Result
<i>Coffee break</i>		
16:15–16:45	Arminas Zizas, Vita Špečkauskienė, Reda Čerapaitė - Trušinskienė, Viktoras Rudžianskas, Renata Paukštaitienė, Lithuanian University of Health Sciences, Lithuania	Advanced Statistical Methods for the Analysis of Patient-Reported Symptom Changes in Head and Neck
16:45–17:15	Matúš Maciak, Ivan Mizera, Michal Pešta, Charles University Prague, Czechia	Functional Profile Analytics for Claims Reserving
17:15–17:45	Aneta Kostárová, Charles University Prague, Czechia	Goodness-of-Fit Testing for Integer-Valued Time Series

September 24, 2026

209 room, Mickevičiaus g. 37, Kaunas

Chair: Miloš Kopa

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:00–14:30	Miloš Kopa, Charles University Prague, Czechia	Relaxations of Stochastic Dominance Relations
14:30–15:00	Rūta Levulienė, Vilijandas Bagdonavičius, Vilnius University	Modified Chi-Squared Test for Beta Regression
15:00–15:30	Šárka Hudecová, Zdeněk Hlávka, Simos G. Meintanis, Charles University Prague, Czechia	Multivariate Goodness-of-Fit Tests Based on Optimal Transport
<i>Coffee break</i>		
16:00–16:30	Jan Vecer, Charles University Prague, Czechia	Upside and Downside Information Flows in Asset Returns
16:30–17:00	Martin Hrbá, Matúš Maciak, Michal Pešta, Charles University Prague, Czechia	Bootstrapping Non-Stationary Hawkes Processes
17:00–17:30	Discussion	

Section Didactics of Mathematics

September 23, 2026

213 room, Mickevičiaus g. 37, Kaunas

Chair: Rūta Simanavičienė

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:15–14:45	Marta Baranuskaitė, Ričardas Krikštolaitis, Vytautas Magnus University, Lithuania	Students' Mathematics Achievement Analysis and Prediction Using Regression Models
14:45–15:15	Rūta Simanavičienė, Vilnius Gediminas Technical University, Lithuania	Mathematics Learning Challenges in Technical Universities (2015–2025): A Review of European Trends and Evidence
15:15–15:45	Oksana Odintsova, Olga Chashechnykova, Sumy State Pedagogical University named after A.S. Makarenko, Ukraine	Features of the Development of Students' Spatial Thinking in the Modern Educational Context
<i>Coffee break</i>		
16:15–16:45	Dace Kūma, Dina Barute, RTU Liepaja Academy, Latvia	Incorporating Elements of Mathematical Modeling into Mathematics Teaching in Primary and Secondary Schools
16:45–17:15	Monika Grigaliūnienė, Erno Lehtinen, Vytautas Magnus University, Lithuania, Jon Star, Harvard Graduate School of Education USA	Do Lithuanian Mathematics Teachers Recognize Situationally Appropriate Students' Solution Strategies?
17:15–17:45	Rita Baublienė, Kaunas University of Technology, Lithuania	Storytelling as a Didactic Strategy for Teaching Statistical Literacy Online

September 24, 2026

213 room, Mickevičiaus g. 37, Kaunas

Chair: Sigita Urbonienė

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
14:00–14:30	Sigita Urbonienė, Monika Grigaliūnienė, Erno Lehtinen, Vytautas Magnus University, Lithuania	Mathematics Teachers Preparation: Comparison Case of Lithuania and Leading Countries
14:30–15:00	Gabija Pranaitytė, Bronė Narkevičienė, Kaunas University of Technology, Lithuania	The Distribution of Olympiad Teaching Expertise Among Mathematics Teachers: Evidence from Lithuania
15:00–15:30	Irina Klizienė, Kaunas University of Technology, Lithuania	Strategies to Overcome Mathematics Learning Difficulties Using a Game-Based and Number Line Method for Teaching Rational Numbers
<i>Coffee break</i>		
16:00–16:30	Alina Zemlienė, Vilnius University, Lithuania	Enabling Student Action Through the Didactic Transformation of School Mathematics Content
16:30–17:30	Concluding Discussion	