
MASTER PROGRAM

for

**EIGHTEENTH INTERNATIONAL CONFERENCE
APPLICATION OF MATHEMATICS IN TECHNICAL AND NATURAL
SCIENCES
JUNE 27-JULY 2, 2026**

**All times in the program are GMT+3 (East-European time). Please
synchronize your local time with respect to GMT and join the announced
Zoom sessions on time.**

SATURDAY, JUNE 27, 2026

FLAMINGO GRAND HALL

Join Zoom Meeting **08:00-19:00**

<https://us02web.zoom.us/j/86404145645?pwd=b1DaAcQ8OaZScPHzDaYQBU2tc1Gjld.1>

Meeting ID: 864 0414 5645

Passcode: 007095

Meeting chat link

<https://us02web.zoom.us/jc/86404145645>

Hosted by Michail Todorov

08:30-09:00 OPENING SESSION

09:00-10:00 PLENARY LECTURE: Daniel Dantchev
Title: *Casimir Forces in the One-Dimensional Three-State Potts*

Model

10:00-10:30 BREAK

Session: *E-LEARNING*

10:30-11:00

Speaker: Mikhail Kolev

Title: *Quantile-Regression Analysis of Blood-Pressure Determinants Across the Conditional Distribution*

11:00-11:30

Speaker:: Irina Naskinova

A Single-View Occupancy Network for Implicit 3D Surface Reconstruction from RGB Images

11:30-12:00

Speaker: Mikhail Kolev

Title: *Functional-Data Clustering of Continuous Glucose Monitoring Profiles for Glycemic Phenotyping*

Session MATHEMATICAL PHYSICS

12:00-12:30

Speaker: Ganna Shyshkanova

Title: *Analytical and Numerical Modelling of Vibrations of Thin-Walled Elastic Structures Based on Potential Theory*

Lunch Break

14:00-15:00

PLENARY TALK: Shihui Zhu

Title: *Dynamical Threshold for the L^2 -critical NLS with a Perturbation*

Session MATHEMATICAL PHYSICS

15:00-15:30

Speaker: Alex Fedoseyev

Title: *Kink-Type Solutions and Streak-Like Structures in Turbulent Channel Flow Using the Alexeev Hydrodynamic*

Framework

15:30-16:00 Speaker: Alex Fedoseyev
Title: *Alexeev Hydrodynamic Equations for Turbulent Flows: Analytical and Numerical Solutions with Experimental Validation*

Break

Session E-LEARNING

16:30-17:00 Speaker: Gleb Haynatzki
Title: *Convexification of Kolmogorov-Arnold Net (KAN): Special Cases*

17:00-17:30 Speaker: Roman Haynatzki
Title: *MHeterogeneous Causal Effects of Donor Hormonal Resuscitation on Heart-Transplant Survival: A Doubly Robust IPW-Cox Framework with Phenotype-Stratified Treatment Effects*

17:30-18:00 Speaker: Stefan Rizanov
Title: *Audio Transformers for Wildfire Sound Detection – A Comparative Analysis t*

Session MATHEMATICAL MODELING

18:00-18:30 Speaker: Byulent Idirizov
Title: *E Maintaining Maximum Profit via Profit-Maximizing Zones under Fixed and Variable Pricing*

20:00 WELCOME PARTY – RESTAURANT, FLAMINGO
GRAND HOTEL
