
MASTER PROGRAM

for

**FOURTEENTH INTERNATIONAL HYBRID CONFERENCE
APPLICATION OF MATHEMATICS IN TECHNICAL AND NATURAL
SCIENCES
JUNE 22-27, 2022**

**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.**

WEDNESDAY, JUNE 22, 2022

Join Zoom Meeting **08:00-12:30**

<https://us02web.zoom.us/j/84946890203?pwd=OXV5OTI1U2c4YytFclJ0Z0loaG9VQT09>

Meeting ID: 849 4689 0203

Passcode: 044995

Hosted by Michail Todorov

08:30-09:00 OPENING SESSION

09:00-10:00 PLENARY LECTURE: Anna Dembinska
Title: *Parametric Inference for Geometric Lifetimes of Elements
of k-out-of-n Systems*

10:00-10:30 BREAK

Special Session APPLICATIONS OF PROBABILITY IN RELIABILITY
THEORY

- 10:30-11:00 Speaker: Krzysztof Jasinski
Title: *The Number of Failed Components in a Failed or Operating Coherent System Consisting of Multiple Types of Components*
- 11:00-11:30 Speaker: Agnieszka Goronsy
Title: *Bounds on Expected Lifetimes of k-out-of-n Systems with the Decreasing Reversed Failure Rate Components*
- 11:30-12:00 Speaker: Nikolay Nikolov
Title: *Inference for a Multilevel Step-Stress Model with Censored Exponential Data*
- 12:00-12:30 Session NUMERICAL METHODS
- 12:00-12:30 Speaker: Byulent Idirizov
Title: *Numerical Solution of American Option Pricing Problem with Free Boundaries and Volatility Regimes*

Lunch Break

Join Zoom Meeting **13:45-16:00**

<https://us02web.zoom.us/j/88374664030?pwd=bDFtSXEzaThKZW9aSGZoWGNPOUR6QT09>

Meeting ID: 883 7466 4030

Passcode: 304202

Hosted by Zhijun Qiao

- 14:00-15:00 PLENARY LECTURE: Yufeng Zhang
Title: *Coverings and Nonlocal Symmetries as well as Fundamental Solutions of Nonlinear Equations Derive from the Nonisospectral AKNS Hierarchy*
- 15:00-16:00 Session NUMERICAL METHODS
- 15:00-15:30 Speaker: Miglena Koleva
Title: *Analytical and Computational Analysis of Time*

Fractional Parabolic Models of Atmospheric Dispersion of Pollutants

15:30-16:00 Speaker: Ivailo Nikolaev
Title: *Method for Numerical Determining of the Instantaneous Flow Rate of a Three-Rotor Gear Pump with Bilateral Lantern Meshing*

Break

Join Zoom Meeting **16:15-18:00**

<https://us02web.zoom.us/j/86098585496?pwd=Zm1TcGZzSzRxRS9iN2ZUcysrcFltZz09>

Meeting ID: 860 9858 5496

Passcode: 404034

Hosted by Michail Todorov

16:30-18:00 Session NUMERICAL METHODS

16:30-17:00 Speaker: Emanouil Atanassov
Title: *A Novel Algorithm for Optimization of the Parameters of the Halton Sequence*

17:00-17:30 Speaker: Alex Fedoseyev
Title: *Optimal Wavelets for Single and Multi-Frequency Signals in Wavelet Based Communication*

17:30-18:00 Speaker: Alex Fedoseyev
Title: *Simulation of Rarefied Gas Flows, Comparison with Experimental Data II*

20:00 WELCOME PARTY – BAILANDO BAR, FLAMINGO
GRAND HOTEL

THURSDAY, JUNE 23, 2022

FLAMINGO GRAND HALL

Join Zoom Meeting **08:15-12:30**

<https://us02web.zoom.us/j/84782672453?pwd=WHVsRkVGZWdqay85M2x5SkIXMmdkZz09>

Meeting ID: 847 8267 2453

Passcode: 111560

Hosted by Michail Todorov

08:30-09:30 PLENARY LECTURE: Jing Li and Xiaodong Yang
Title: *Vibration and Control of Moving Structures*

09:30-10:00 BREAK

10:00-12:30 Session SCIENTIFIC COMPUTING

10:00-10:30 Speaker: Todor Gurov
Title: *New Features in the Service for Estimating the Brown Bear (*Ursus arctos L.*) Population in Bulgaria*

10:30-11:00 Speaker: Tzvetan Ostromsky
Title: *Sensitivity Analysis in Air Pollution Modeling by Innovative Monte Carlo Methods*

11:00-11:30 Speaker: Ivan Lirkov
Title: *BURA Preconditioning of Multiphysics Problems*

11:30-12:00 Speaker: Elena Lilkova
Title: *Computational Approach to the Inhibition of SARS-CoV-2 Orf6*

12:00-12:30 Speaker: Nevena Ilieva
Title: *Computational Modeling of Carbon Diffusion in bcc Iron in the Presence of 1/2[111] Screw Dislocations*

Lunch Break

FLAMINGO GRAND HALL

Join Zoom Meeting **13:45-16:00**

<https://us02web.zoom.us/j/86311981821?pwd=UitFTWh4SnFZeU5Oam9vYVNDaG5pQT09>

Meeting ID: 863 1198 1821

Passcode: 755275

Hosted by Michail Todorov

14:00-16:00 Session SCIENTIFIC COMPUTING

14:00-14:30 Speaker: Xubiao Peng
Title: *Studying the Geometry and Dynamics of Prospective Parkinson-Inhibitor MCoCP4 Variants with Modified Grafting Topologies*

14:30-15:00 Speaker: Nectarios Papanicolaou
Title: *On the Transferability of the Deep Galerkin Method (DGM) for Solving Partial Differential Equations*

15:00-15:30 Speaker: Venelin Todorov
Title: *Multidimensional Sensitivity Analysis in Air Pollution Modeling by Lattice Rules with Optimal Generating Vectors*

15:30-16:00 Speaker: Roman Haynatzki
Title: *Machine Learning*

Coffee Break

FLAMINGO GRAND HALL

Join Zoom Meeting **16:15-18:15**

<https://us02web.zoom.us/j/84010584797?pwd=Z0h0TXpVNVJWk012b05EbHNuY2NUQT09>

Meeting ID: 840 1058 4797

Passcode: 768300

Hosted by Michail Todorov

- 16:30-17:15 **KEYNOTE SPEAKER:** Hristo Kojouharov
Title: *Higher-order Modified Nonstandard Finite Difference Methods for Autonomous Differential Equations*
- 17:15-18:15 Session **NUMERICAL METHODS**
- 17:15-17:45 Speaker: Andreas Aristotelous
Title: *Energy Stable Interior Penalty Discontinuous Galerkin Finite Element Scheme for the Growth Cahn-Hilliard Equation*
- 17:45-18:15 Speaker: Yuri Kandilarov
Title: *Reconstruction of Concentration Sources for Primary and Secondary Pollutant Models*

CORELA HALL: Parallel Zoom Session

Join Morning 2 Zoom Meeting **10:00-12:30**
<https://essex-university.zoom.us/j/92040184669>

Hosted by Georgi Grahovski

- 10:00-12:30 Special Session **NONLINEAR VIBRATION & CONTROL**
- 10:00-10:30 Speaker: Chao Fu
Title: *Quantification of Uncertainty in Nonlinear Vibrations of Mechanical Systems*
- 10:30-11:00 Speaker: Shaotao Zhu
Title: *Multiple Periodic Vibrations of Auxetic Honeycomb Sandwich Plates Subjected to In-Plane and Transverse Excitation*
- 11:00-11:30 Speaker: Lishuang Jiang

Title: *Bifurcations and Vibration Analysis of a Four-Dimensional Chaotic Hyperjerk Circuit System*

11:30-12:00 Speaker: Ting Gao
Title: *Optimization of a Novel Viscoelastic Dynamic Vibration Absorber with Lever, Inerter and Negative Stiffness*

12:00-12:30 Speaker: Tingting Quan
Title: *Bifurcation and Number of Subharmonic Solutions of Some 2n-Dimensional Systems and Its Application*

Lunch Break

CORELA HALL: Parallel Zoom Session

Join Afternoon 1 Zoom Meeting **14:00-15:30**
<https://essex-university.zoom.us/j/95733750048>

Hosted by Georgi Grahovski

14:00-15:30 Session BIOMATHEMATICS

14:00-14:30 Speaker: Meglena Lazarova
Title: *Reaction Networks with Application to Epidemiological Outbreaks and Biological Growth*

14:30-15:00 Speaker: Slavi Georgiev
Title: *Parameter Identification Analysis of the Transfer of Heavy Metals in Honey Bees*

15:00-15:30 Speaker: Silvi-Maria Gurova
Title: *Reaction Network of a Predator-Prey Model with SEIR and SEIRS Epidemic in the Prey population*

15:30-16:00 Speaker: Martin Dimitrov
Particle Filters in Epidemiology

Break

CORELA HALL: Parallel Zoom Session

Join Afternoon 2 Zoom Meeting 17:15-18:15
<https://essex-university.zoom.us/j/99184621459>

Hosted by Georgi Grahovski

17:15-18:15 Session SCIENTIFIC COMPUTING

17:15-17:45 Speaker: Miroslav Stoenchev
Title: *Elliptic Curves and Diophantine Equations*

17:45-18:15 Speaker: Stoyan Apostolov
Title: *Innovative Monte Carlo Algorithm for Linear Equations
Based on “Walk on Equations” Algorithm*

FRIDAY, JUNE 24, 2022

Flamingo Grand Hall

Join Zoom Meeting 08:15-12:30

<https://us02web.zoom.us/j/85978923581?pwd=xCfTU3i3RRbmlbHy2L3Ou82N75QcP7.1>

Meeting ID: 859 7892 3581

Passcode: 946479

Hosted by Michail Todorov

08:30-09:30 PLENARY TALK

Speaker: Ismihan Bayramoglu

Title: *Fuzzy Order Statistics in Reliability Analysis*

Cofee Break

10:00-11:00 PLENARY TALK

Speaker: Weinian Zhang

Title: *An Algorithm for Melnikov Functions and Application to a Chaotic Rotor*

Session APPLIED ANALYSIS

11:00-11:30

Speaker: Vesela Mihova

Title: *Numerical Modeling of the Noise Generated by Hydraulic Systems with Centrifugal Fan at Two Flow Rate Adjustment Methods*

11:30-12:00

Speaker: Andrei Shorikov

Title: *Minimax Estimation of the Forecast Set of the Dynamical Economic and Mathematical Model of the Production System*

12:00-12:30

Speaker: Victoria Akberina

Title: *A Tree-Level Hierarchical Agent-Oriented Model for*

*Forecasting the State and Optimizing the Management of the
Production Potential of the Region*

Lunch Break

14:00 Real Excursion
The historical park near the village of Neofit Rilski
Letters Museum in Pliska
Castle of Ovech near Provadia

Corella Hall

PARALLEL ZOOM SESSION

Join Morning 2 Zoom Meeting 11:00-12:30
<https://essex-university.zoom.us/j/92040184669>

Hosted by Georgi Grahovski

11:00-12:30 Session MATHEMATICAL PHYSICS:

11:00-11:30 Speaker: Viktor Olevskyi
Title: *Mathematical Modeling of the Electrochemical Phase
Formation through a Supercooled Liquid State Stage in Metals*

11:30-12:00 Speaker: Katrin Laas
Title: *Stochastic Resonance of the Spectral Amplification for a
Fractional Oscillator in a Fluctuating Magnetic Field*

12:00-12:30 Speaker: S. Singh
Title: *Analysis of Nonlinear Weakly Singular Integro-Partial
Differential Equations Arising from Viscoelasticity*

SATURDAY, JUNE 25, 2022

FLAMINGO GRAND HALL

Join Zoom Meeting **08:15-12:30**

<https://us02web.zoom.us/j/81668194354?pwd=Pqqr89FaRRvHfxXuaORjVD9RsX4bcG.1>

Meeting ID: 816 6819 4354

Passcode: 774252

Hosted by Michail Todorov

08:30-09:30 PLENARY LECTURE: Enrique Reyes
Title: *The Initial Value Problem of the Gelfand-Dickey Hierarchy*

09:30-10:00 BREAK

10:00-12:30 Special Session NONLINEAR VIBRATION & CONTROL

10:00-10:30 Speaker: Kuan Lu
Title: *The Applications of POD Method in Rotor-bearing System*

10:30-11:00 Speaker: Xiaodong Yang
Title: *Vibration Reduction of Articulated Silicone Gel Column with Varying Geometry*

11:00-11:30 Speaker: Xueqing Gu
Title: *Parameter Optimization for Novel Dynamic Vibration Absorbers with Negative Stiffness and Amplifying Component*

11:30-12:00 Speaker: Yong Xu
Title: *Review for Complex Nonlinear Dynamics and Vibration Suppression of Conceptual Airfoil Models*

12:00-12:30 Speaker: Xiangying Guo
Title: *Vibration Suppression of Nonlinear Composite Laminated Plate Using Nonlinear Energy Sink with Internal Nonlinear*

Oscillator

Lunch Break

Join Zoom Meeting 13:45-16:00

https://us02web.zoom.us/j/89899518540?pwd=34nSMGnmsJsB_c3U9mYenEtbEXpHqh.1

Meeting ID: 898 9951 8540

Passcode: 392555

Hosted by Michail Todorov

14:00-16:00 Special Session SOLITON INTERACTIONS IN NONLINEAR OPTICS AND HYDRODYNAMICS

14:00-14:30 Speaker: Shou-Fu Tian
Title: *TBA*

14:30-15:00 Speaker: Manwai Yuen
Title: *The Multi-Peakon Weak Solution for the Rotation-Two-Component Camassa-Holm System*

15:00-15:30 Speaker: Hongyi Zhang
Title: *Spectral Analysis and Long-Time Asymptotics of Complex mKdV Equation*

15:30-16:00 Speaker: Vladimir Gerdjikov
Title: *On Modeling the Soliton Interactions of NLS with Vanishing and Non-Vanishing Boundary Conditions*

Break

Join Zoom Meeting 16:30-18:30

<https://us02web.zoom.us/j/82943485053?pwd=XyZc2DmE5IOiWtft-LmGasYU9yFJSt.1>

Meeting ID: 829 4348 5053

Passcode: 099204

Hosted by Michail Todorov

16:30-17:30 Special Session SOLITON INTERACTIONS IN NONLINEAR OPTICS AND HYDRODYNAMICS

16:30-17:00 Speaker: Rossen Ivanov
Title: *Negative Flows of the Soliton Hierarchies*

17:00-17:30 Speaker: Veselin Vachev
Title: *Soliton Interactions for the Boussinesq Equation*

17:00-18:30 Session MATHEMATICAL PHYSICS

17:30-18:00 Speaker: Georgi Grahovski
Title: *On Real Hamiltonian Forms of Affine Toda Field Theories*

18:00-18:30 Speaker: Nikolay Kutev
Title: *Finite Time Blow up of Solutions to Klein-Gordon Equations with Variable Coefficient Nonlinearities*

18:45 Official Dinner - the restaurant of Kopitoto (The Hoof) in the resort of St. Constantine and Helena
Meeting point in front of the Flamingo Grand hotel

SATURDAY, JUNE 25, 2022

PARALLEL SESSION CORELLA HALL

Join Morning 2 Zoom Meeting 10:00-12:30
<https://essex-university.zoom.us/j/92040184669>

Hosted by Georgi Grahovski

- 10:00-11:30 Session MATHEMATICAL PHYSICS
- 10:00-10:30 Speaker: Bogdan Dimitrov
Title: *New Methods for Analytical Calculation of Elliptic Integrals Applied in Various Physical Problems*
- 10:30-11:00 Speaker: Tanu Laas
Title: *Influence of a Fluctuating Magnetic Field on the Statistical Moments of a Charged Oscillator Driven by a Periodic Force*
- 11:00-11:30 Speaker: Martin Nikolo
Title: *Review of Inductive Magnetic Measurement Techniques: AC Susceptibility and Torque Cantilever Magnetometry: Theory and Experiment*
- Special Session MATHEMATICAL AND STATISTICAL ASPECTS OF RELIABLE ANALYSIS
- 11:30-12:00 Speaker: Murat Oskut
Title: *Systems Subject to Marshall-Olkin Type Shocks*
- 12:00-12:30 Speaker: A. Dax
Title: *Kaczmarz Anomaly in Tomography Problems*
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PARALLEL SESSION CORELLA HALL

Join Afternoon 1 Zoom Meeting **14:00-16:00**
<https://essex-university.zoom.us/j/95733750048>

Hosted by Georgi Grahovski

- 14:00-16:00 Session MATHEMATICAL PHYSICS
- 14:00-14:30 Speaker: Xueqiong Yi
Title: *Traveling Waves of the KdV-nKdV Equation*
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- 14:30-15:00 Speaker: Elena Kobilskaya
Title: *Model of the Electromagnetic Field of a Wire Antenna*
- 15:00-15:30 Speaker: Ivan Hristov
Title: *Hundreds of New Satellites of Figure-eight Orbit
Computed with High Precision*
- 15:30-16:00 Speaker: Abhinandan Chowdhury
Title: *Runge-Kutta Based IMEX Scheme for the Kuramoto-
Sivashinsky Equation*

Break

PARALLEL SESSION CORELLA HALL

Join Afternoon 2 Zoom Meeting **16:30-17:30**
<https://essex-university.zoom.us/j/99184621459>

Hosted by Georgi Grahovski

- 16:30-18:30 Session APPLIED ANALYSIS
- 16:30-17:00 Speaker: Mariana Nikolova
Title: *Statistic Study of Gaseous Air Contamination in the City
of Ruse, Bulgaria*
- 17:00-17:30 Speaker: Irina Minkova
Title: *Statistic Study of Particulate Matter (PM10) Air
Contamination in the City of Svishtov, Bulgaria*

18:45 Official Dinner - the restaurant of Kopitoto (The Hoof) in the resort of St. Constantine and Helena
Meeting point in front of the Flamingo Grand hotel

SUNDAY, JUNE 26, 2022

Flamingo Grand Hall

Join Zoom Meeting 08:15-13:00

https://us02web.zoom.us/j/87875469620?pwd=ELLcYHawaonFql_-P9Le1pq5qaucpo.1

Meeting ID: 878 7546 9620

Passcode: 626389

Hosted by Michail Todorov

08:30-09:30 PLENARY LECTURE: Shuguan Ji
Title: *Dynamical Behaviors of Nonlinear Wave Equation in Inhomogeneous Media*

09:30-10:00 BREAK

10:00-11:00 PLENARY LECTURE: Xijun Hu
Title: *Index Theory and Stability of Elliptic Relative Equilibria in Planar n-Body Problem*

11:00-13:00 Special Session CONTINUUM MECHANICS

11:00-11:30 Speaker: Maria Datcheva
Title: *Nonstationary Waves in Functionally Graded Viscoelastic Materials*

11:30-12:00 Speaker: Roumen Iankov
Title: *Hybrid Numerical Experimental Homogenization and Parametric Study Procedure with Application to Porous Media*

12:00-12:30 Speaker: Valentin Gushchin

Title: *Formation Conditions of the Stratified Fluid Streak from the Spots Chain with Intervals*

12:30-13:00 Speaker: Todor Zhelyazov
Title: *Modeling of Wave Propagation in a Viscoelastic Medium*

Lunch Break

Join Zoom Meeting 13:45-16:00
https://us02web.zoom.us/j/88551302139?pwd=6MdSksKum0r1lga_2UBrSc-PQ4-xkm.1

Meeting ID: 885 5130 2139
Passcode: 663417

Hosted by Michail Todorov

14:00-16:00 Special Session STATISTICS AND MODELING

14:00-14:30 Speaker: Milan Stehlik
Title: *Data Transformations and Transfer Functions*

14:30-15:00 Speaker: Evelina Veleva
Title: *Machine Learning Approach to Study and Predict Air Pollution*

15:00-15:30 Speaker: Pavlina Jordanova
Title: *Bivariate Compound Poisson Risk Processes with Shocks*

15:30-16:00 Speaker: Gleb Haynatzki
Title: *Machine Learner Ensemble: Statistical Theory and Practice*

16:00-16:30 Break

Join Zoom Meeting 16:30-18:00
https://us02web.zoom.us/j/88218953437?pwd=QBf_87wdSZ3w5wSMBaXI9CYIcMI3yT.1

Meeting ID: 882 1895 3437

Passcode: 495593

Hosted by Michail Todorov

16:30-18:00 Special Session STATISTICS AND MODELING

16:30-17:00 Speaker: Petras Rupsys
Title: *Stochastic Modeling of Tree Growth Regulatory Networks*

17:00-17:30 Speaker: Christina Christara
Title: *Stochastic Default Intensity XVA Pricing Using a PDE Model*

17:30-18:00 Speaker: Ana Staneva
Title: *Machine Learning Based Parameter Estimation of Multitype Branching Processes*

SUNDAY, JUNE 26, 2022

Corella Hall

Join Morning 2 Zoom Meeting 11:00-12:30
<https://essex-university.zoom.us/j/92040184669>

Hosted by Georgi Grahovski

11:00-12:30 Session APPLIED ANALYSIS

11:00-11:30 Speaker: Svilen Popov
Title: *Some Combinatorial Principles and Their Applications to C^* Algebras*

11:30-12:00 Speaker: Yuri Bozhkov
Title: *The Liouville-Bratu-Gelfand Problem*

12:00-12:30 Speaker: Vesselina Vucheva
Title: *A Symplectic High-Order Accurate Numerical Method for the Sixth Order Boussinesq Equation*

Lunch

Join Afternoon 1 Zoom Meeting 14:00-16:00
<https://essex-university.zoom.us/j/95733750048>

Hosted by Georgi Grahovski

14:00-16:00 Session APPLIED ANALYSIS

14:00-14:30 Speaker: Olga Rozanova
Title: *On Nonstrictly Hyperbolic Systems, Their Regularizations, and Models of Natural Sciences Reducible to Them*

14:30-15:00 Speaker: Tihomir Gyulov
Title: *A Priori Estimates for Solutions of Boundary Value Problems for a Time Fractional Parabolic System of Fractured Porous Media*

15:00-15:30 Speaker: Marios Nestoros
Title: *A Numerical Study of the Effect of Thermal Relaxation on the Photothermal Signal from Semiconductors*

15:30-16:00 Speaker: Georgi Boyadzhiev
Title: *Strong Maximum Principle for Quasi-Monotone Systems of Fully Non-linear Parabolic Equations*

Break

Session APPLIED ANALYSIS

Join Afternoon 2 Zoom Meeting 16:30-18:00
<https://essex-university.zoom.us/j/99184621459>

Hosted by Georgi Grahovski

16:30-18:00 Session APPLIED ANALYSIS

16:30-17:00 Speaker: Nikolay Dimitrov
Title: *Existence and Multiplicity of Positive Solutions for a Third Order Differential Equation*

17:00-17:30 Speaker: Iryna Hvozdeva
Title: *Model of Time Series in the Form of a Discrete Analog of the Volterra Integral Equation*

17:30-18:00 Speaker: Viktor Lyashenko
Title: *Presentation of Data for Solving Problems of Artificial Intelligence*

MONDAY JUNE 27, 2022

FLAMINGO GRAND HALL

Join Zoom Meeting **08:15-13:00**

https://us02web.zoom.us/j/86151413247?pwd=xv8yJVEZBRyclL4p95c_lwqSJ2rphjW.1

Meeting ID: 861 5141 3247

Passcode: 807042

Hosted by Michail Todorov

08:30-09:30 PLENARY LECTURE: Zhenxin Liu
Title: *Averaging Principle for Monotone SPDEs*

09:30-10:00 BREAK

10:00-11:30 Special Session NEUTRON STARS EQUATION OF STATE

10:00-10:30 Speaker: Vesselin Gueorguiev
Title: *Main Results and Current Progress within the Scale Invariant Vacuum Paradigm*

10:30-11:00 Speaker: Galin Gyulchev
Title: *Relativistic Look of a Dark Energy Star*

11:00-11:30 Speaker: Stoyan Mishev
Title: *Coupled-Cluster Calculation of Neutron Matter Equation of State*

11:30-12:00 *Virtual Trip for the on-line participants*
Guided by Tzvetan Ostromsky

12:00-13:00 RECAPITULATION AND OFFICIAL CLOSING SESSION
OF THE CONFERENCE

Good Bye Party

MONDAY JUNE 27, 2022

CORELLA HALL

Join Morning 2 Zoom Meeting 10:00-11:30
<https://essex-university.zoom.us/j/92040184669>

Hosted by Georgi Grahovski

- 10:00-11:30 Session CONTINUUM MECHANICS
- 10:00-10:30 Speaker: Ganna Shyshkanova
Title: *Contact Pressure over Doubly Connected Rectangular Domains and Punch Shape Optimization*
- 10:30-11:00 Speaker: Alexander Kuzmin
Title: *Peculiarities of Aerodynamic Loads on a Projectile in Transonic Flight at Small Angles of Attack*
- 11:00-11:30 Speaker: Dobri Dankov
Title: *Continuous and Statistical Modeling of the Taylor-Couette Flow of Rarefied Viscous Gas with Inhomogeneous Boundary Conditions*