

November 9 (Monday)

9:00 - 9:45	Hall	Registration
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Room A: ZOOM LINK
<https://us02web.zoom.us/j/84366937985?pwd=YVc2bGVtVzBkeW5oVWVNOWhqaXRmZz09>
ZOOM ID: 84366937985
Code: 291239

9:45 - 10:00	Room A	Krivtsov Anton	Opening ceremony
10:00 - 10:40	Room A	Huppert Herbert	Granular collapses: theory and experiments
10:40 - 11:10	Room A	Freidin Alexandr	Coupled problems of mechanochemistry: statements and solutions
11:10 - 11:40	Room A	Stegailov Vladimir	Atomistic modeling of diffusion of nanobubbles in metals

11:40- 12:00	Winter Garden	Coffee-break
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12:00 - 12:30	Room A	Semenov Artem	Modeling of Shift and Shear of Hysteresis for Ferroelectroelastic Materials with Defects
12:30 - 13:00	Room A	Kovaleva Margarita	Model of interchain excitation transport in the DNA

13:00 - 14:00	Canteen	Lunch
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14:00 - 14:30	Room A	Pavlovskaya Ekaterina	Modelling of Vortex Induced Vibrations
14:30 - 15:00	Room A	Prikazchikov Danila	Global long-wave approximations for thin elastic structures
15:00 - 15:30	Room A	Bratov Vladimir	Seismic protection utilizing seismic barriers and seismic metastructures
15:30 - 16:00	Room A	Brigadnov Igor	Engineering estimations of load-bearing capacity of solids
16:00 - 16:30	Room A	Golden Kenneth	Modeling the geometry of melt ponds on Arctic sea ice
16:30 - 17:10	Room A	Chen Gang	Phonon Hydrodynamic Transport at High Temperatures

17:15 - 17:30	Room A	Semin Michail	Simulation of artificial ground freezing in underground construction: state of the art, challenges, areas of improvement
17:30 - 17:45	Room A	Yants Anton	Direct Crystal Plasticity Model for Describing the Deformation of Samples of Polycrystalline Materials
17:45 - 18:00	Room A	Palyulin Vladimir	How to predict the viscoelastic properties of amorphous solids at small deformations
18:00 - 18:15	Room A	Grishchenko Alexey	Modeling inelastic deformation of single crystal superalloys with account of phases composition evolution
18:15 - 18:30	Room A	Kamran Kamran	Ballistic performance of plain and reinforced concrete plates
18:30 - 18:45	Room A	Tak Sanjay	Axial performance of thin walled mild steel tubes subjected to projectile impact

Room B: ZOOM LINK
<https://us02web.zoom.us/j/81930472123?pwd=MTVmZ2N4Rnl4MGExVmQ0KzF4b1NrQT09>
ZOOM ID: 81930472123
Code: 048230

17:15 - 17:30	Room B	Polyanskiy Vitaly	About the mechanism of interaction of the electric field with a hydrocarbon flame
17:30 - 17:45	Room B	Leonov Konstantin	Dynamics of a single cavitation bubble in micro-confinement under external driving
17:45 - 18:00	Room B	Podoprosvetova Anastasia	Experimental studies of the flow regime impact on the elastic tubes stability
18:00 - 18:15	Room B	Zakharov Stepan	Two-phase flow continuum modelling of methane + n-butane mixture
18:15 - 18:30	Room B	Vilchevskaya Anastasia	Blood motion modeling depending on hemodynamic parameters

Room C: ZOOM LINK
<https://us02web.zoom.us/j/89767317183?pwd=S1VxNE1tV3dKbUhlWjk0WHNFL3U1QT09>
ZOOM ID: 89767317183
Code: 583727

17:15 - 17:30	Room C	Sheinerman Alexander	Models of strengthening and softening of nanocrystalline ceramics
17:30 - 17:45	Room C	Krasnitckii Stanislav	Stress distribution in vicinity of triple junction with inhomogeneity in ceramic composites
17:45 - 18:00	Room C	Frolova Ksenia	Evaluation of the effective diffusion coefficient of a transversely isotropic porous material accounting for hydrogen segregation
18:00 - 18:15	Room C	Gudkina Zhanna	Experimental observation and model of mode ii crack propagation in human dentin by microtomography
18:15 - 18:30	Room C	Mikheev Dmitry	Misfit stresses and their relaxation by misfit dislocation loops in core-shell nanoparticles with truncated spherical cores

November 10 (Tuesday)

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10:00 - 11:00	Room A	Indeitsev Dmitrii	Some ideas about the dynamical behavior the thermal expansion coefficient and its influence for acoustic wave
11:00 - 11:30	Room A	Müller Wolfgang	Applications of extended micropolar theory. A model of orientational polarization

11:30 - 12:00	Winter Garden	Coffee-break
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12:00 - 12:40	Room A	Dhar Abhishek	Understanding anomalous thermal transport in one-dimensional systems through fluctuating hydrodynamics
12:40 - 13:10	Room A	Kuzkin Vitaly	Peculiarities of unsteady ballistic heat transport in crystals

13:20 - 14:00	Canteen	Lunch
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14:00 - 14:30	Room A	Baimova Julia	Graphene aerogels as a perspective storage media
14:30 - 15:00	Room A	Shamolin Maxim	Systems with dynamical symmetries: qualitative analysis, integrability, and applications
15:00 - 15:30	Room A	Mayer Alexander	Artificial neural networks and MD simulations in prediction of dislocation nucleation in FCC single crystals
15:30 - 16:00	Room A	Bobylev Sergey	The model of inverse Hall-Petch relation in nanocrystalline ceramics
16:00 - 16:30	Room A	Banichuk Nikolai	Critical Velocities and Stability of the Axially Moving Webs
16:30 - 17:10	Room A	Barsoum Michel	Ripplocations: A Universal Deformation Mechanism in Layered Solids
17:10 - 17:40	Room A	Slavin Andrei	Vector Hamiltonian Formalism for Nonlinear Magnetization Dynamics
17:45 - 18:00	Room A	Shepelev Igor	Bistable labyrinth-like structures and chimera states in a 2D lattice of van der Pol oscillators
18:00 - 18:15	Room A	Shcherbinin Stepan	Delocalized nonlinear vibrational modes in fcc metals
18:15 - 18:30	Room A	Kozhevnikov Evgenii	Influence of the dynamic loading on the sandstone elastic properties
18:30 - 18:45	Room A	Riabokon Evgenii	The model of the dynamic component of the Young's modulus of a sandstone under dynamic loads

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17:45 - 18:00	Room B	Liazhkov Sergei	Unsteady thermal processes in a one-dimensional harmonic semi-infinite free-end chain
18:00 - 18:15	Room B	Sokolov Aleksei	Wave propagation in one-dimensional harmonic crystal. A connection between discrete and continuum approaches
18:15 - 18:30	Room B	Kukudzhyanov Konstantin	Numerical Modeling The Healing Of Damage Of Metal By High-Energy Pulsed Electromagnetic Field

November 11 (Wednesday)

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10:00 - 10:30	Room A	Dmitriev Sergey	Delocalized nonlinear vibrational modes of triangular lattice
10:30 - 11:00	Room A	Korznikova Elena	Mechanical Response of Carbon Nanotube Bundle to Lateral Compression
11:00 - 11:30	Room A	Linkov Aleksandr	Modeling hydraulic fractures by using explicit schemes: Theory, advantages, numerical results

11:30- 12:00	Winter Garden	Coffee break
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12:00 - 12:30	Room A	Oseledets Ivan	Mathematical modelling in the age of deep learning
12:30 - 13:00	Room A	Efendiev Yalchin	Nonlocal multicontinua models for multiscale flows

13:00- 14:00	Canteen	Lunch
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14:00 - 14:15	Room A	Knyazeva Anna	Nonlinear thermal-elastic diffusion problems applicable to surface modification
14:15 - 14:30	Room A	Konstantinov Stanislav	Dynamics of nonequilibrium systems
14:30 - 14:45	Room A	Kashtanova Stanislava	Mathematical approaches to the solution of stresses problem in cylindrical shell with a hole
14:45 - 15:00	Room A	Matli Subramanyam Reddy	Towards Determining a Mixed Mode Failure Curve for an Interface Crack in Materials used for Deterministic Three-dimensional Assembled Structures
15:00 - 15:15	Room A	Ivanov Oleg	Influence of finite-length plate proximity on flow-induced vibrations of elastic cylinder
15:15 - 15:30	Room A	Bugaenko Anna	Particular solutions of a linearized system of gas dynamics equations in the absence of gravity when taking into account the actions of the coriolis force
15:30 - 15:45	Room A	Dudko Olga	Self-similar 2d motion of plane deformation waves in the heteromodular isotropic elastic medium
15:45 - 16:00	Room A	Sedova Yulia	Features of applying HEDE model to description of the destruction of materials induced by hydrogen
16:00 - 16:15	Room A	Zlobina Ekaterina	High-frequency diffraction by impedance contour with a Hölder-type discontinuity in curvature
16:15 - 16:30	Room A	Borodin Elijah	A discrete multidimensional approach to structure characterisation and mechanical behaviour of nanocrystalline solids
16:30 - 16:45	Room A	Rozhkov Mikhail	Molecular dynamics simulation of mechanical behavior of YSZ ceramics/graphene nanocomposites
16:45 - 17:00	Room A	Mohamed Cherif Bouleklab	Studying Aluminum contained thermally expanded graphite
17:00 - 17:15	Room A	Hakem Ahmed	Influence of the time of ripening and mode of elaboration on the evolution of the main characteristics of resistance, ductility and microstructure of the alloy eutectic AlSi13
17:15 — 17:30	Room A	Tretyakov Dmitry	Acoustoelastic effect during plastic deformation of anisotropic metals

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14:00 — 14:30	Room B	Vedeneev Vasily	Solitary waves in hyperelastic tubes conveying inviscid and viscous fluid
14:30 — 14:45	Room B	Nazarova Larisa	Permeability anisotropy of geomaterials in a nonuniform stress field: Theory and lab-scale test

14:45 - 15:00	Room B	Bryukhanov Ilya	Dynamics of edge dislocation in Cu–Ni solid solution alloys at atomic scale
15:00 - 15:15	Room B	Atroshenko Svetlana	Failure analysis in lifetime estimation of rail
15:15 - 15:30	Room B	Melkumova Elena	The Six-legged Robot Rescue From En Emergency on The Back
15:30 - 15:45	Room B	Li Kairui	The planar three-dimensional simulation of a hydraulic fracture in the reservoir with heterogeneous fracture toughness
15:45 - 16:00	Room B	Fedotov Aleksandr	Shape Control and Modal Control Strategies for Active Vibration Suppression of a Cantilever Beam
16:00 - 16:15	Room B	Glazov Alexey	Dependence of the thermoelastic parameter on deformation in real insulators and conductors
16:15 - 16:30	Room B	Afanas'ev Vladislav	On stability of axially moving tensioned viscous material
16:30 - 16:45	Room B	Saitova Regina	Determination of damage parameter of metallic materials from experimental creep curves
16:45 - 17:00	Room B	Ibraheem Anas	A new software (AMS), for analysis, modeling and design structures
17:00 - 17:15	Room B	Prozorova Evelina	Influence of the position for the inertia center in problems of mechanics
17:15 — 17:30	Room B	Ahmad Subhan	Residual compressive strength of self-compacting concrete exposed to elevated temperatures: Experimental and statistical study
17:30 — 17:45	Room B	Chernakov Anton	Dislocation Loops Formation and Equilibrium Distribution in Two-Layer Semiconductor Nanotubes