Science&Progress 2020
Section C

Wednesday 11 Nov, moderators N.N. Resnina, T.N. Mokaev

11:15-13:45

11:15-11:30	Connection test
11:30-11:45	Mikhail Anikushin Geometric construction of inertial manifolds for non-autonomous dynamical systems
11:45-12:00	Sadjad Baradari Investigation of shape memory effect and superelasticity in the NiCuTiHf and NiCuTiHfZr alloys
12:00-12:15	Rashid Bikbaev Shape memory effect in the NiTi samples produced by wire-arc additive manufacturing
12:15-12:30	Andrei Boltachev On Fredholm boundary problems for the wave equation with conditions on the entire boundary
12:30-12:45	Georgii Dzebisashvili Analysis of the cylindrical shell's vibrations under cross-section shape transformation
12:45-13:00	Aleksei Ivanov Recoverable strain variation during isothermal martensitic transformation in NiTi-based shape memory alloys
13:00-13:15	Natalia Izvarina Elliptic complexes in relative elliptic theory
13:15-13:30	Alexander Kiryushkin Numerical simulation of coupled problem of determining internal ballistics characteristics in solid rocket motors
13:30-13:45	Danila Semenov Synchronization of the Hindmarsh-Rose neurons via adaptive coupling

15:00-17:15

15:00-15:15	Connection test
15:15-15:30	Pavel Liulchak Simulation of Deformation Effects of NiTi Based Shape Memory Alloy by Means of a Phenomenological Macroscopic Level Model
15:30-15:45	Iuliia Zaitceva Piloted control: preventing unfavorable pilot-vehicle interactions
15:45-16:00	Elizaveta Akimova Analysis of global stability and oscillations in discontinuous control systems
16:00-16:15	Fenja Drauschke Effect of Topology upon Relay Synchronization in Triplex Neuronal Networks
16:15-16:30	Iuliia Raznoglazova Synchronization control and bifurcation of coupled two-dimensional Hindmarsh-Rose systems
16:30-16:45	Konstantin Zhuikov Eta-invariant for elliptic operators on a manifold with cylindrical ends
16:45-17:00	Alexander Khomkolov Global stability and dissipativity in fractional Lorenz systems
17:00-17:15	Alisa Krylova Deformation of shallow spherical caps under internal pressure

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Thursday 12 Nov
9:45-11:15

9:45-10:00	Connection test
10:00-10:15	Mikhail Lobachev The lock-in range of a type 2 analog PLL
10:15-10:30	Mariya Bushmakova Machine learning algorithms for evaluation of relaxation terms in state-to-state kinetic equations
10:30-10:45	Artur Gabrielyan Strain variation during isothermal holding of the Ni51Ti49 shape memory alloy under
10:45-11:00	Uliana Karaseva Influence of heat treatment on the mechanical behavior under compression of NiTi alloy produced by wire arc additive manufacturing
11:00-11:15	Vladimir Kiriyanov Predicting COVID-19 spreading in Russia based on a learning mathematical model of epidemic
11:15-11:30	Break

11:30-12:30

11:30-11:45	Anastasia Kozlova On classical connections in analytic mechanics
11:45-12:00	Elvira Salakhova Oscillations in the neuroendocrine system: An event-based regulation model
12:00-12:15	Sergey Bondarenko Modeling and calculation of kinematic diagrams of mechanisms of robotic systems for pipeline diagnostic
12:15-12:30	Timofey Rebrov, Chernysheva Tatiana Deformation tensor for BCC-HCP martensitic transformation in TiZr shape memory alloy