

The program of the 3rd Youth Conference of the Moscow Center of Fundamental and Applied Mathematics at INM RAS on December 27, 727 kab.

11:00 Chernenkov Alexey “Setting up and verifying the snow cover description block of the climate model of the INM RAS”

11:20 Vorobyova Vasilisa “Forecast of the state of the Earth system for a period from a season to 5 years using the INMCM5 climate model”

11:40 Ostanin Pavel “Data assimilation for the two-dimensional ambipolar diffusion equation in the model ionospheres of the Earth”

12:00 Vlad Andrey “Agent model of dynamics of viral infections”

12:20 Khristichenko Mikhail “Dependence of optimal perturbations of periodic solutions of systems with a delay from the phase”

12:40 Coffee break

12:55 Zasko Grigory “Development of new spatial approximation methods for problems of stability of boundary-layer flows”

13:15 Smirnov Matvey “Approximation of analytical functions by polynomials and estimation of tensor ranks”

13:35 Tarasevich Maria “Development of a seasonal forecasting system based on the climate model of the INM RAS”

13:55 Anuprienko Denis “Modeling of two-phase filtration in a deformable porous medium to explain the breakthrough effect when injecting carbon dioxide into shales”

14:15 Legky Alexey “Numerical algorithm for virtual placement of aortic valve lobe templates inside the aortic cavity and the effect of material nonlinearity on coaptation characteristics”

14:35 Lunch

15:20 Tretyakova Rufina “Application of the method boundary integral equations in the problem of filtration and absorption of liquid”

15:40 Chaplygin Andrey “Shallow water model for effective use on heterogeneous computing systems“, online

16:00 Petrov Sergey V. ”Stability of low-rank tensor structures to white noise“, online

16:20 Petrov Sergey S. "A new model of thermodynamics of sea ice with snow: physical and computational aspects, comparison of one-dimensional and zero-dimensional implementation with observational data”, online