

INTERNATIONAL BIWEEKLY ONLINE SEMINAR ON ANALYSIS, DIFFERENTIAL EQUATIONS AND MATHEMATICAL PHYSICS

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

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9 June 2022, 6 pm (UTC+3)

Multiscale modeling of cardiovascular system

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The report presents a set of mathematical models of different spatial and temporal scales for solving practically significant clinical problems in cardiovascular field. The parameters of the models, as well as the initial and boundary conditions are set based on the data of standard medical protocols used in most medical institutions specializing in the treatment and prevention of cardiovascular and oncological diseases. All models are based on first principles. Their mathematical complexity is balanced in such a way that the results of the simulations are usefull for medical doctors.

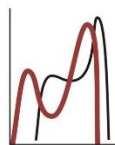
*Seminar website: <https://msrn.sfedu.ru/sl>. The seminar uses Microsoft Teams online platform.
Please send questions to ademp.seminar@gmail.com (Tatiana Andreeva, scientific secretary).

The seminar is organized by the Regional Mathematical Center of the Southern Federal University in collaboration with Institute of Mathematics, Mechanics and Computer Sciences of the Southern Federal University and the special Interest ISAAC-OTHA group in Operator Theory and Harmonic Analysis.

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