

PROGRAM

Monday, September 25

08:00 – 11:00 Registration (Hotel and entertainment complex «Kazanskaya Riviera», Kazan, Fatykh Amirkhan Ave., 1)

Wednesday, September 27

09:00 – 09:15 Opening Ceremony

09:15 – 09:30 **A.V. Bogaychuk**, “Design of the Halbach array taking into account material imperfections“

09:30 – 09:45 **A.A. Belyaeva**, “Estimating the efficacy of optical flow building techniques based on MRT images”

09:45 – 10:00 **A.M. Garaeva**, “Study of Helium-3 Nuclear Relaxation in Contact with DyF₃ Nanoscale Powders”

10:00 – 10:15 **T.Y. Ivanenko**, “PFG NMR Study of petroleum asphaltene behavior in presence of ionic liquids”

10:15 – 10:30 **D.S. Fedorov**, “Mechanism of sodium diffusion in $Na_{5-x}M_{1-x}Zr_x(MoO_4)_4$ (M= Y, La, Bi; $0 \leq x \leq 0.1$)”

10:30 – 10:45 **Yu.V. Slesareva**, “Investigating Dynamic Effects of Multi-Pulse Protocols on Cu- and Ni-Oxamidato Complexes by Solid-State ¹H NMRs”

10:45 – 11:00 **A.L. Valiullin**, “Design of a Gradient Coil System for Nuclear Magnetic Resonance Equipment”

11:00 – 11:30 **Coffee break**

11:30 – 11:45 **A.M. Bulgakova**, “Investigation of signs of biological destruction of muscle tissues by nuclear magnetic resonance”

11:45 – 12:00 **P.A. Gergelezhiu**, “Characterization of ibuprofen by NMR and other complementary methods”

12:00 – 12:15 **E.I. Shamsiyarova**, “Search for complex formation between 5-fluorouracil and β-casein in aqueous solutions by Diffusion NMR”

12:15 – 12:30 **M. Smirnov**, “Application of high-resolution NMR spectroscopy to study the mechanisms of interaction of noble metal nanoparticles with amino acids”

12:30 – 12:45 **T.A. Kazbayev**, “New Aspects of Structural and Molecular Organisation of Oil Resins of Different Genesis from Nuclear Magnetic Relaxation Data”

12:45 – 13:00 **E.S. Kuchaev**, “Structural studies of oligopeptide inhibitor of SrtA by high-resolution NMR spectroscopy”

13:00 – 13:15 **A.A. Khayrullina**, “Search for the optimal gel-forming agent for the study of erythrocytes by NMR”

13:15 – 13:30 **E.R. Khisravashirova**, “NMR study of the interaction of hyaluronic acid molecules with proteins in aqueous solutions”

13:30 – 14:30 **Lunch**

P R O G R A M

- 14:30 – 14:45 **T.N. Enderova**, “Comparative study of Topological insulator $\text{Bi}_{1.06}\text{Sn}_{0.04}\text{Sb}_{0.9}\text{Te}_2\text{S}$ transport properties using DC and microwave measurements”
- 14:45 – 15:00 **D.E. Zhelezniakova**, “Electron Spin Resonance in EuSn_2As_2 Crystal Near the Magnetic Ordering Temperature”
- 15:00 – 15:15 **A.Kh. Kadikova**, “Structure, magnetic properties and spin-Hall effects in $\text{Pt}_{1-x}\text{Mn}_x/\text{Py}$ heterostructures”
- 15:15 – 15:30 **E.Yu. Sidorova**, “Structural features of kaolinite from the weathering crust according to EPR data”
- 15:30 – 15:45 **G.D. Ulev**, “Generation and detection of spin current in iridate/manganite heterostructures”
- 15:45 – 16:00 **P.S. Kudimkina**, “Magnetic properties of LiCu_3O_3 studied with ESR”
- 16:00 – 16:30 **Coffee break**
- 16:30 – 16:45 **A.I. Shamsieva**, “Approaches to determining the glass transition temperature of polymers by computer simulation”
- 16:45 – 17:00 **A.A. Evseev**, “*Ab initio* investigation of heterostructures based on ferroelectric and metal with Rashba splitting”
- 17:00 – 17:15 **A.F. Iafarova**, “Unravelling Magnetic Properties in LiGdF_4 via EPR-Spectra Simulation”
- 17:15 – 17:30 **G.Iu. Andreev**, “Magnetocaloric properties of the LiGdF_4 single crystal”
- 17:30 – 17:45 **A.I. Faskhutdinova**, “*Ab initio* magnetic properties simulation of nanoparticles LiTbF_4 , LiDyF_4 , DyF_3 , TbF_3 ”
- 17:45 – 18:00 **Y.V. Rebrov**, “High-frequency dielectric anomaly in a quasy-2D square kagomé lattice nabokoite family compounds”
- 18:00 – 18:15 **S.V. Stazharova**, “Synthesis and magnetic properties of oxides $\text{La}_2\text{Zr}_2\text{O}_7:\text{Nd}^{3+}$ and $\text{SrY}_2\text{O}_4:\text{Sm}^{3+}$ ”

Friday, September 29

- 13:00 – 13:30 Closing Ceremony (Hotel and entertainment complex «Kazanskaya Riviera», Kazan, Fatykh Amirkhan Ave., 1)