## Schedule

## 21<sup>th</sup> International School-Conference

## «Magnetic Resonance and its Applications.

## Spinus-2024»

April 1 - 5, 2024 St. Petersburg



	MONDAY – April 1, 2024		
Chairman	Professor Denis Markelov (Saint-Petersburg, Russia)		
10:00 - 10:15	Opening		
10:15-11:00	Vladimir Chizhik (Saint-Petersburg, Russia)		
	Lecture: 300 years of St. Petersburg State University and 80 years of		
	radiospectroscopy in it		
11:00 - 11:40	Janez Stepišnik (Ljubljana, Slovenia)		
	Lecture: Why biopolymers fold in glycerol-water mixture: NMR study of		
	diffusion in glycerol-water mixture		
	'COFFEE' BREAK		
11:40 - 12:10	'COFFEE' BREAK		
11:40 – 12:10 Chairman	COFFEE' BREAK Professor Carlos Cabal-Mirabal (Havana, Cuba)		
11:40 – 12:10 Chairman 12:10 – 12:50	'COFFEE' BREAKProfessor Carlos Cabal-Mirabal (Havana, Cuba)Yury Pirogov (Moscow, Russia)		
11:40 – 12:10 Chairman 12:10 – 12:50	'COFFEE' BREAK         Professor Carlos Cabal-Mirabal (Havana, Cuba)         Yury Pirogov (Moscow, Russia)         Lecture: Novel approaches in magnetic resonance imaging		
11:40 - 12:10 Chairman 12:10 - 12:50 12:50 - 13:05	'COFFEE' BREAKProfessor Carlos Cabal-Mirabal (Havana, Cuba)Yury Pirogov (Moscow, Russia)Lecture: Novel approaches in magnetic resonance imagingLeila Sharipova (Saint-Petersburg, Russia)		
11:40 – 12:10         Chairman         12:10 – 12:50         12:50 – 13:05	<ul> <li>'COFFEE' BREAK</li> <li>Professor Carlos Cabal-Mirabal (Havana, Cuba)</li> <li>Yury Pirogov (Moscow, Russia)</li> <li>Lecture: Novel approaches in magnetic resonance imaging</li> <li>Leila Sharipova (Saint-Petersburg, Russia)</li> <li>Oral report: Experimental investigation of a metasurface for cardiac</li> </ul>		
11:40 – 12:10 Chairman 12:10 – 12:50 12:50 – 13:05	<ul> <li>'COFFEE' BREAK</li> <li>Professor Carlos Cabal-Mirabal (Havana, Cuba)</li> <li>Yury Pirogov (Moscow, Russia)</li> <li>Lecture: Novel approaches in magnetic resonance imaging</li> <li>Leila Sharipova (Saint-Petersburg, Russia)</li> <li>Oral report: Experimental investigation of a metasurface for cardiac magnetic resonance imaging at 3 T</li> </ul>		
11:40 – 12:10         Chairman         12:10 – 12:50         12:50 – 13:05         13:05 – 13:20	<ul> <li>'COFFEE' BREAK</li> <li>Professor Carlos Cabal-Mirabal (Havana, Cuba)</li> <li>Yury Pirogov (Moscow, Russia)</li> <li>Lecture: Novel approaches in magnetic resonance imaging</li> <li>Leila Sharipova (Saint-Petersburg, Russia)</li> <li>Oral report: Experimental investigation of a metasurface for cardiac magnetic resonance imaging at 3 T</li> <li>Elizaveta Kononenko (Novosibirsk, Russia)</li> </ul>		
11:40 - 12:10         Chairman         12:10 - 12:50         12:50 - 13:05         13:05 - 13:20	<ul> <li>'COFFEE' BREAK</li> <li>Professor Carlos Cabal-Mirabal (Havana, Cuba)</li> <li>Yury Pirogov (Moscow, Russia)</li> <li>Lecture: Novel approaches in magnetic resonance imaging</li> <li>Leila Sharipova (Saint-Petersburg, Russia)</li> <li>Oral report: Experimental investigation of a metasurface for cardiac magnetic resonance imaging at 3 T</li> <li>Elizaveta Kononenko (Novosibirsk, Russia)</li> <li>Oral report: In vivo MR imaging of murine bronchial tree using</li> </ul>		
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	<b>Oral report:</b> Ultra-low field portable MRI for a human head: preliminary results		
13:35-13:50	Vladimir Pugovkin (Saint-Petersburg, Russia)		
10.00 10.00	Oral report: An alternative proposal of gradient coils configuration for		
	ultra-low field magnetic resonance imaging		
13:50-14:10	Nikolav Anisimov (Moscow, Russia)		
	<b>Oral report:</b> Visualization of the internal structure of coils used in MRI		
	studies		
14:10 - 15:30	LUNCH		
Chairman	Professor Yury Pirogov (Moscow, Russia)		
15:30 - 15:50	Carlos Cabal-Mirabal (Havana, Cuba)		
	<b>Oral report:</b> Some of the main current trends and challenges in high and low field MRI.		
15:50 - 16:05	Timofei Taran (Moscow, Russia)		
	<b>Oral report:</b> Non-contrast MRI for ventilation and perfusion study of the		
	lungs		
16:05 - 16:20	Dmitrii Luzik (Saint-Petersburg, Russia)		
	Oral report: NMR study of small protein assymetric dimer		
16:20 - 16:35	Vitaly Kozinenko (Novosibirsk, Russia)		
	Oral report: Probing Weak Ligand-Protein Binding Using Long-Lived		
	Spin Order Relaxometry		
16:35 - 16:50	Polina Kononova (Novosibirsk, Russia)		
	Oral report: spectroscopy in the study of the interaction of membrane		
	proteins of enveloped viruses and potential antiviral agents		
16:50-17:10	Manuel Arsenio Lores Guevara (Santiago de Cuba, Cuba)		
	Oral report: Blood dynamic viscosity measured using NMR		
17:10 - 17:30	'COFFEE' BREAK		
Chairman	Professor Carlos Cabal-Mirabal (Havana, Cuba)		
17:30 - 17:45	Manuel Arsenio Lores Guevara (Santiago de Cuba, Cuba)		
	Oral report: Proposal for a detachable Phantom for MRI-qMRI		
17:45 - 18:00	Zilya Badrieva (Saint-Petersburg, Russia)		
	<b>Oral report:</b> Dictionary-based T <sub>2</sub> -mapping with multi-echo turbo-spin echo		
18:00-18:15	Eduardo Garea-Llano (Havana, Cuba)		
	<b>Oral report:</b> Artificial Intelligence tools for the reconstruction and		
10.15 10.20	Versiehe Alexes (Sertiege de Cube Cube)		
18:15 - 18:50	Yamirka Alonso (Sanuago de Cuba, Cuba)		
	<b>Oral report:</b> Assessment of blood serum dynamic viscosity by NMR in sickle cell disease		
18:30 – 18:45	Evelio Gonzalez-Dalmau (Havana, Cuba)		
	<b>Oral report:</b> System to ensure the reproducibility of the legs positions		
	during the Magnetic Resonance Imaging (MRI) studies		
19-30 - 22:00	Welcome Party		
	the could a drug		
	<b>TUESDAY</b> – April 2, 2024		

Chairman	Professor Yury Bunkov (Moscow, Russia)	
10:00 - 10:40	Roman Babunts (Saint-Petersburg, Russia)	
	Lecture: Spin-dependent phenomena in wide-gap materials and based nanostructures and development of the instrumentation for these studies	
10:40 - 10:55	Anastasia Batueva (Saint-Petersburg, Russia)	
	<b>Oral report:</b> Mn Related Paramagnetic Centres in a Bulk GaS and GaSe Van der Waals Semiconductors with High-Frequency EPR Method	
10:55 - 11:10	Ilya Kostyukov (Moscow, Russia)	
	<b>Oral report:</b> Determination of crystallographic positions of aluminum atoms in BEA zeolites using high-quality <sup>27</sup> Al MAS NMR	
11:10 - 11:25	Alexander Snadin (Novosibirsk, Russia)	
	<b>Oral report:</b> Singlet-triplet conversion in molecular hydrogen on a homogeneous catalyst in parahydrogen induced polarization experiments	
11:25 - 11:40	Sergey Sviyazov (Novosibirsk, Russia)	
	<b>Oral report:</b> Manipulating Stereoselectivity of Parahydrogen Addition to Acetylene to Unravel Interconversion of Ethylene Nuclear Spin Isomers	
11:40 - 12:10	'COFFEE' BREAK	
Chairman	Professor Yury Bunkov (Moscow, Russia)	
12:10 - 12:40	Shutian Lu (ZHONGTAI, Hefei, China)	
	Ilya Chazov (sales director of the company ''ELEMENT'', Ekaterenburg, Russia)	
	Lecture: The ZHONGTAI 94 GHz pulsed EPR spectrometer	
12:40 – 12:55	Margarita Sadovnikova (Kazan, Russia)	
	<b>Oral report:</b> Study of the hydroxyapatite doped with gadolinium and cerium ions using EPR spectroscopy	
12:55 - 13:10	Valentina Yakovleva (Saint-Petersburg, Russia)	
	<b>Oral report:</b> Scanning NV spectroscopy as a tool for the study of natural diamonds	
13:10 - 13:25	Leonid Vedernikov (Saint-Petersburg, Russia)	
	<b>Oral report:</b> Excitation of black spin wave solitons in an active ring resonator based on a ferromagnetic film	
13:25-14:05	Kev Salikhov (Kazan, Russia)	
	<b>Lecture:</b> The effect of exchange narrowing of the electron paramagnetic resonance (EPR) spectra of dilute radical solutions indicates the formation of a Bose-Einstein condensate (BEC)	
14:05 - 15:30	LUNCH	
Chairman	Professor Vladimir Chizhik (Saint-Petersburg, Russia)	
15:30 - 16:10	Leonid Grunin (Yoshkar-Ola, Russia)	
	Lecture: Systematic View on the Dynamics and Structure Analysis of Solids by Time-Domain NMR	
16:10-16:30	Boris Kharkov (Saint-Petersburg, Russia)	
	Oral report: The Role of Rotational Motion in Diffusion NMR	

Experiments on Supramolecular Assemblies			
16:30-16:50	Galina Kupriyanova (Kaliningrad, Russia)		
	Oral report: <sup>14</sup> N magnetic relaxation in solids and liquids.		
	CONFERENCE PHOTO		
16:50-18:50	Oral blitz reports of young scientists		
	POSTER SESSION I		
	WEDNESDAY – April 3, 2024		
10:00 – 14:30	Excursion		
14:30 - 15:30	LUNCH		
Chairman	Professor Marina Shelyapina (Saint-Petersburg, Russia)		
15: 30 - 16:10	Suryaprakash Nagarajarao (Bangalore, India)		
	Lecture: Clean Sequences for Complete Eradication of Unwanted Evolution and Accurate Determination of Spectral Parameters		
16:10 - 16:40	Edward Fel'dman (Chernogolovka, Russia)		
	<b>Oral report:</b> Multiple quantum NMR in problems of quantum informatics: many-spin entanglement and scrambling		
16:40 – 16:55	Aleksandr Tomilov (Novosibirsk, Russia) Oral report: Nitroxide radical sorption on MOF-808 for quantum bits		
16:55-17:15	Sergey Vasil'ev (Chernogolovka, Russia)		
	<b>Oral report:</b> Dissipative dynamics of multiple-quantum NMR coherences in two-spin systems		
17:15-17:35	'COFFEE' BREAK		
17: 35 – 17: 50	Sergei Bystrov (Batumi, Georgia)		
	Oral report: NMR to Industry: Development of modern universal control software for TD-NMR spectrometers, validation using fertilizer samples as an example		
17: 50- 18:10	Alexander Sóñora Mengana (Santiago de Cuba, Cuba)		
	Oral report: Assessment of timing parameters of cuban NMR console		
18:10-18:30	Manuel Arsenio Lores Guevara (Santiago de Cuba, Cuba)		
	<b>Oral report:</b> Modelling proton magnetic relaxation in hemoglobin solutions: spherical and ellipsoidal approaches		
18:30-18:50	Georgy Mozzhukhin (Gebze-Kocaeli, Turkey)		
	<b>Oral report:</b> Design of large volume RF probe for NQR Detection applications		

	THURSDAY – April 4, 2024		
Chairman	Associate Professor Andrei Komolkin (Saint-Petersburg, Russia)		
10:00 - 10:40	Elena Charnaya (Saint-Petersburg, Russia)		
	Lecture: Liquid-liquid phase transition in metallic melts		
10:40 - 11:00	Polina Skvortsova (Kazan, Russia)		
	<b>Oral report:</b> NMR study of liquid–liquid phase separation in pillar[5]arene- oligonucleotide system		
11:00-11:15	Allisher Vasilev (Kazan, Russia)		
	<b>Oral report:</b> Liquid-liquid phase transition in the nanoconfined Ga-In-Sn eutectic alloy		
11:15 - 11:40	Marina Shelyapina (Saint-Petersburg, Russia)		
	Lecture: Nanoconfined water in zeolites with hierarchical porosity probed		
11:40 - 12:10	'COFFEE' BREAK		
Chairman	Professor Elena Charnaya (Saint-Petersburg, Russia)		
12:10 - 12:50	Yury Bunkov (Moscow, Russia)		
	Oral report: Qubit on magnon BEC state		
12:50 - 13:05	Alexey Kuzmichev (Moscow, Russia)		
	<b>Oral report:</b> Improved Low-Temperature Damping of Epitaxial Yttrium Iron Garnet Film		
13:05-13:25	Alexey Kiryutin (Novosibirsk, Russia)		
	<b>Oral report:</b> SLIC-SABRE at Earth's Magnetic fields: Simple and Effective Method of getting Strong <sup>15</sup> N NMR Polarization		
13:25 – 13:40	<b>Oral report:</b> New methods for SABRE hyperpolarization at high magnetic		
	field		
13:40-13:55	Anna 11 (NOVOSIDIISK, KUSSIA) Oral report: Solvent effects in hyperpolarization of <sup>15</sup> N nuclei in		
	<b>Oral report:</b> Solvent effects in hyperpolarization of <sup>10</sup> N nuclei in metronidazole and nimorazole antibiotics via SABRE-SHEATH		
13:55 – 14: 10	Leonid Skripnikov (Saint-Petersburg, Russia)		
	<b>Oral report:</b> Use of molecules to measure the parity conserving and parity violating nuclear moments		
14:10 - 15:30	LUNCH		
Chairman	Professor Denis Markelov (Saint-Petersburg, Russia)		
15: 30 - 15:50	Ilya Yakovlev (Novosibirsk, Russia)		
	<b>Oral report:</b> Ordering of water molecules in hydrated aluminophosphate AIPO-11 according to <sup>27</sup> Al solid-state NMR and DFT calculations		
15: 50 - 16:05	Naira Gromova (Saint-Petersburg, Russia)		
	<b>Oral report:</b> Cell size dependence of hydrodynamic radius of carbosilane dendrimers in chloroform		
16:05-16:20	Anna Titova (Saint-Petersburg, Russia)		
	<b>Oral report:</b> Investigation of the use of hydrogen bonds for association of polymer blocks with different substituents by means of quantum chemistry		

16:20-16:35	Vladimir Bazaikin (Ufa, Russia)		
	<b>Oral report:</b> Investigation of poly-m-phenylene isophthalamide polymer membrane modified by UiO-66 (NH <sub>2</sub> ) MOF for separation of toluene/methanol mixture using molecular dynamics method		
16:35-16:55	Eugenv Pestrvaev (Saint-Petersburg, Russia)		
10.00 10.00	Oral report: Applicability limits of the Anderson-Weiss approach to polymer melts		
16:55–18:50	Oral blitz reports of young scientists		
	POSTER SESSION II		
20:00-23:00	Conference Dinner		
	FRIDAY – April 5, 2024		
Chairman	Professor Peter Tolstoy (Saint-Petersburg, Russia)		
10:45 - 11:05	Alina Arkhipova (Novosibirsk, Russia)		
	<b>Oral report:</b> Interaction of the anthraquinone derivative and its chelate complexes with nucleic bases in dark and photoinduced processes		
11:05 - 11:20	Vladimir Koshman (Novosibirsk, Russia)		
	<b>Oral report:</b> Redox activity and membrane interaction of novel thiosemicarbazones		
11:20-11:40	Sabina Eldarova (Baku, Azerbaijan)		
	<b>Oral report:</b> Study of the chemical composition of azerbaijani crude oil using infrared spectroscopy and nuclear magnetic resonance methods.		
	using infrared spectroscopy and nuclear magnetic resonance methods.		
11:40 - 12:10	COFFEE' BREAK		
11:40 – 12:10 Chairman	COFFEE' BREAK Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)		
11:40 – 12:10 Chairman 12:10 – 12:50	using infrared spectroscopy and nuclear magnetic resonance methods.         'COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)		
11:40 – 12:10 Chairman 12:10 – 12:50	using infrared spectroscopy and nuclear magnetic resonance methods.         •COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications		
11:40 - 12:10 Chairman 12:10 - 12:50 12:50- 13:05	using infrared spectroscopy and nuclear magnetic resonance methods.         'COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)		
11:40 – 12:10 Chairman 12:10 – 12:50 12:50– 13:05	COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)         Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR		
11:40 - 12:10 Chairman 12:10 - 12:50 12:50- 13:05 13:05 - 13:20	COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)         Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR         Milosh Ubovich (Saint-Petersburg, Russia)		
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11:40 - 12:10 Chairman 12:10 - 12:50 12:50- 13:05 13:05 - 13:20 13:20 - 13:35	COFFEE' BREAK         COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)         Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR         Milosh Ubovich (Saint-Petersburg, Russia)         Oral report: Ionic Liquid Systems "[bmim]Cl/AlCl <sub>3</sub> /H <sub>2</sub> O" Studied by NMR and Quantum Chemistry         Kirill Mukhin (Saint-Petersburg, Russia)		
11:40 - 12:10 Chairman 12:10 - 12:50 12:50- 13:05 13:05 - 13:20 13:20 - 13:35	COFFEE' BREAK         COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)         Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR         Milosh Ubovich (Saint-Petersburg, Russia)         Oral report: Ionic Liquid Systems "[bmim]Cl/AlCl <sub>3</sub> /H <sub>2</sub> O" Studied by NMR and Quantum Chemistry         Kirill Mukhin (Saint-Petersburg, Russia)         Oral report: NMR Study of Ion Behavior in lithium acetate – cesium acetate aqueous solutions		
11:40 - 12:10 Chairman 12:10 - 12:50 12:50- 13:05 13:05 - 13:20 13:20 - 13:35	COFFEE' BREAK         COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)         Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR         Milosh Ubovich (Saint-Petersburg, Russia)         Oral report: Ionic Liquid Systems "[bmim]Cl/AlCl <sub>3</sub> /H <sub>2</sub> O" Studied by NMR and Quantum Chemistry         Kirill Mukhin (Saint-Petersburg, Russia)         Oral report: NMR Study of Ion Behavior in lithium acetate – cesium acetate aqueous solutions         Alexandr Ievlev (Saint-Petersburg, Russia)		
11:40 - 12:10 Chairman 12:10 - 12:50 12:50- 13:05 13:05 - 13:20 13:20 - 13:35 13:35- 13:55	COFFEE' BREAK         COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)         Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)         Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR         Milosh Ubovich (Saint-Petersburg, Russia)         Oral report: Ionic Liquid Systems "[bmim]Cl/AlCl <sub>3</sub> /H <sub>2</sub> O" Studied by NMR and Quantum Chemistry         Kirill Mukhin (Saint-Petersburg, Russia)         Oral report: NMR Study of Ion Behavior in lithium acetate – cesium acetate aqueous solutions         Alexandr Ievlev (Saint-Petersburg, Russia)         Oral report: Molecular and ionic mobility of ionic liquids with complex anions containing metals		
11:40 - 12:10         Chairman         12:10 - 12:50         12:50-13:05         13:05 - 13:20         13:20 - 13:35         13:35-13:55         13:55-16:00	COFFEE' BREAK         COFFEE' BREAK         Associate Professor Vladimir Matveev (Saint-Petersburg, Russia)         Pavel Yushmanov (Stockholm, Sweden)       Lecture: Electrophoretic NMR and applications         Petr Fetin (Saint-Petersburg, Russia)       Oral report: Polymerization kinetics and catalytic properties of resulted comb-like polyelectrolytes by <sup>1</sup> H NMR         Milosh Ubovich (Saint-Petersburg, Russia)       Oral report: Ionic Liquid Systems "[bmim]Cl/AlCl <sub>3</sub> /H <sub>2</sub> O" Studied by NMR and Quantum Chemistry         Kirill Mukhin (Saint-Petersburg, Russia)       Oral report: NMR Study of Ion Behavior in lithium acetate – cesium acetate aqueous solutions         Alexandr Ievlev (Saint-Petersburg, Russia)       Oral report: Molecular and ionic mobility of ionic liquids with complex anions containing metals		

	POSTER SESSION I (TUESDAY, 16:50 – 18:50)			
1	Ivan	Adyukov	The geometric configuration determination of 2-(1-aryl-1-oxopropan-2-ylidene)hydrazinecarboxamides with <sup>1</sup> H- <sup>1</sup> H NOESY	
2	Arseniy	Alekseev	Behavior of magnetic nanoparticles of ferrofluid in a focused laser beam	
3	Dmitry	Alimov	UiO-66 framework with encapsulated spin probe: mechanistic study of sensitivity to mechanical pressure and guest molecules	
4	Omar	Alkhuder	Using NMR to establish experimental correlations between hydrogen bond strength and the chemical shift of the <sup>31</sup> P in complexes with phosphine oxide.	
5	Ekaterina	Batueva	The effect of the counterion and substituent in the ligand on the properties of the Fe(II)–Fe(III) heptanuclear complex	
6	Valerii	Bezrodnyi	Molecular dynamic simulation of complexes lysyne-based dendrimers with fullerenes	
7	Sergey	Cheremensky	Microstructure and molecular mobility in the LiCl-CsCl-H <sub>2</sub> O system according to molecular dynamics simulations	
8	Mariia	Dmitrenko	Preparation and characterization of pervaporation membranes based on sodium alginate modified by Zn(BIM)	
9	Anastasia	Dmitrieva	Low-field bench-top NMR study of magnetic cellulose microspheres for spiking of circulating tumor cells	
10	Roman	Dubovenko	Structure and physicochemical properties of carboxymethyl cellulose/Zn- based MOF membrane	
11	Anna	Dyatlovich	Device for determining the characteristics of the magnetic field of a permanent magnet. Preliminary results.	
12	Maria	Egorova	Local ordering and mobility of water molecules in the micropores of a 3D zeolite with mordenite structure by molecular dynamics simulation	
13	Adeliya	Garaeva	The effect of DyF <sub>3</sub> particles on the magnetic relaxation of $^{3}$ He nuclei	
14	Dilyara	Gareeva	Segmentation of MRI images of the spine using ML	
15	Kirill	Gomonov	Nuclear Overhauser effect in determining the configuration of nitrofuran-3- carboxylates semicarbazones	
16	Timur	Islamov	Investigation of Lovastatine with transition metal by NMR	
17	Matvei	Kadnikov	Synthesis and macromonomer structure analysis by <sup>1</sup> H NMR spectroscopy	
18	Anna	Kariakina	Synthesis and characterization of membranes based on polyether block amide modified by MIL-125	
19	Kenan	Mamedgasanov	Molecular dynamics simulation of sulfur compound extraction from a model fuel.	
20	Amina	Muratova	Cell size dependence of hydrodynamic radius of PAMAM dendrimers G2 in methanol	
21	Dariya	Kolosova	Structural transformations of pore water based on NMR in the consolidation theory of fine-grained soils.	
22	Ekaterina	Krivosheeva	Identification of glucofrangulin A in Rhamnus frangula L. by <sup>1</sup> H NMR spectroscopy.	
23	Anna	Kuzminova	Novel membranes based on poly(ester-block-amide) modified with Ho- MOFs	
24	Olga	Lezova	Investigation of the interaction of polyvinyl alcohol and tetraethoxysilane in dimethyl sulfoxide by NMR spectroscopy	
25	Kirill	Likhachev	All-optical scanning spectroscopy of anti-crossing of electron and nuclear spin levels in a SiC crystal of hexagonal polytype	
26	Anastasia	Lobova	Synthesis and <sup>1</sup> H- <sup>1</sup> H spectroscopy NOESY studies of (E)-(2-chloro-2- phenylvinyl)diaminphosphine oxide	
27	Olga	Mikhailovskaya	Study of pervaporation membranes based on polyelectrolyte complex of sodium alginate/polyethylenimine modified with graphene oxide	

28	Anna	Mikulan	Novel composite carboxymethyl cellulose/MIL-125 pervaporation membranes: synthesis and characterization
29	Guzel	Minnullina	Cis-Trans Isomerization in Cyclosporin C Dissolved in Acetonitrile
30	Viktor	Demidov	<sup>1</sup> H and <sup>13</sup> C NMR spectra of bioactive glassy polymorphic N- heterobiphenylene acetate binuclear complexes of Zn <sup>2+</sup> and Cd <sup>2+</sup>
31	Viktor	Demidov	Effect of the coordination centers and the solvents on the parameters of the <sup>1</sup> H and <sup>13</sup> C NMR spectra of bioactive Zn <sup>+2</sup> and Cd <sup>2+</sup> acetate mononuclear complexes with 1,10-phenanthroline
32	Alexey	Salin	Organocatalyticsynthesis of Michael adducts of the sesquiterpene lactone arglabin and their 2D NMR structural analysis
33	Anastasia	Nikitina	Studies of EPR relaxation of NV centers in diamonds
34	Anastasia	Nikitina	EPR of magnetic nanoparticles in water dispersions
35	Nikolay	Anisimov	Study of the gastrointestinal tract using <sup>19</sup> F MRI
36	Dmitry	Cheshkov	ANATOLIA: NMR Software for Total Lineshape Analysis
37	Ruslan	Zaripov	Using Microwave and Field Gradient Pulses for binary coding of the Transverse Magnetization
38	Ilya	Ozhogin	Study of the thermochromic behavior of nitro-substituted symmetric bis- spiropyran of the indoline series using dynamic NMR methods
39	Ilya	Grishanovich	The detectig of correlations between NMR spectra of ligno-carbohydrate complexes in dissolved and solid state
40	Alexandr	Kondrashov	Influence of the operating regime on performances of the magnonic reservoir computer

	POSTER SESSION II (THURSDAY, 16:55 – 18:50)			
1	Luiza	Miridonova	Determination of diosmin in Hyssopus officinalis L: opportunity of <sup>1</sup> H NMR spectroscopy.	
2	Artemiy	Nichugovskiy	From Theory to Practice: Extracting spin-spin coupling constants from highly complex NMR multiplets	
3	Daria	Novikova	Analysis of NOESY spectra to obtain accurate information on the structure and dynamics of some 5,7-substituted pyrazolo[1,5-a]pyrimidine derivatives in solution	
4	Daria	Osetrina	Structural studies of fibril-forming peptide fragments of the semenogelin1 protein using NMR spectroscopy and molecular modeling	
5	Ksenia	Panicheva	Relaxation of the <sup>1</sup> H multiple-quantum (MQ) NMR coherences during the excitation period in gypsum single crystal.	
6	Vasilii	Pelipko	Determination of regio- and stereochemistry of spiropyrrolizine oxindoles using NMR spectroscopy methods	
7	Alina	Petrova	Investigation of polyvinyl pyrrolidone — hydroxya patite composites by NMR and EPR methods	
8	Ilya	Pilipenko	Application of 2D NMR experiments for identification of alkyl 5-nitro-7,12- dioxo-7,12-dihydroindeno[1,2-a]fluorene-6-carboxylates	
9	Margarita	Puzikova	Development and characterization of novel nanofiltration membranes based on polyacrylonitrile modified with Zr-MOFs.	
10	Andrej	Rochev	Temperature evolution of spin-phonon coupling efficiency under magnetic saturation for sodium quadrupole nuclei in a NaF crystal	
11	Kirill	Salomatin	Characterization of novel dense membranes based on chitosan modified by MIL-125	
12	Aleksandra	Sashina	Structure and mobility of the lipid system in water-ionic liquid mixtures: magnetic resonance measurements and molecular dynamics simulations	
13	Sabina	Seyidova	Study of ionic-liquid extraction of arenes from petroleum fractions by UV spectroscopy method.	
14	Amina	Shaidullina	Study of intramolecular dynamics of $\beta$ -enaminone using NMR, UV and DFT methods	
15	Xeniya	Sushkova	Study on biodegradability of carrageenan/starch/nanocellulose food films	
16	Artyom	Tarasov	Spectral characteristics of the complex of cyclosporin C (CsC) with Dy <sup>3+</sup> ions and DPC micelles in aqueous solution determined by NMR spectroscopy	
17	Roman	Terekhov	Spatial structure of taxifolin's diastereomers via NMR analysis	
18	Anastasia	Troshkina	Structure of the amyloidogenic peptide SEM2(49-107) by NMR spectroscopy	
19	Daria	Tsukhlova	Investigation of the features of the interaction of water molecules and saccharides in aqueous solutions by NMR	
20	Milosh	Ubovich	Molecular Mobility in Mixtures of Ethylammonium and Aluminum Nitrates by Molecular Dynamics Simulations in Interests of Interpreting NMR Data	
21	Yulia	Uspenskaya	Transition metals in wide-band-gap semiconductor $\beta$ -Ga <sub>2</sub> O <sub>3</sub> identified by high-frequency electron paramagnetic resonance	
22	Azamat	Yerlanuly	Formation of 2-aminos piropyrazolinium and linear compounds at $\beta$ -aminopropioamidoximes alkylsulfochlorination	
23	lvan	Zhukov	Relaxation dispersion of water protons in magnetic fields ranging from 10 mT to 16.4 T for Gd-containing materials proposed as new MRI contrast agents.	
24	Marcel	Bakirov	Manifestations of spin coherence transfer in EPR spectra of nitroxide free radical solutions	
25	Yaroslav	Marchenko	Magnetic parameters of magnetosomes inside Magnetotactic Bacteria Magnetospirillum spp.	
26	Marina	Shelyapina	Adsorption of glycerol at Brønsted sites in mordenite: A density functional theory study	
27	Yulianela	Mengana	Theoretical relationship between proton spin-spin magnetic relaxation time $(T_2)$ and dynamic viscosity.	

28	Anatoly	lvanov	Multi-point magnetic field mapping device to passive shimming of NMR permanent magnet
29	Konstantin	Bozhenko	Spin-Dependent Interactions of $Fe_2O_n$ (n=1-6) Clusters with $H_2$ and $O_2$ Molecules