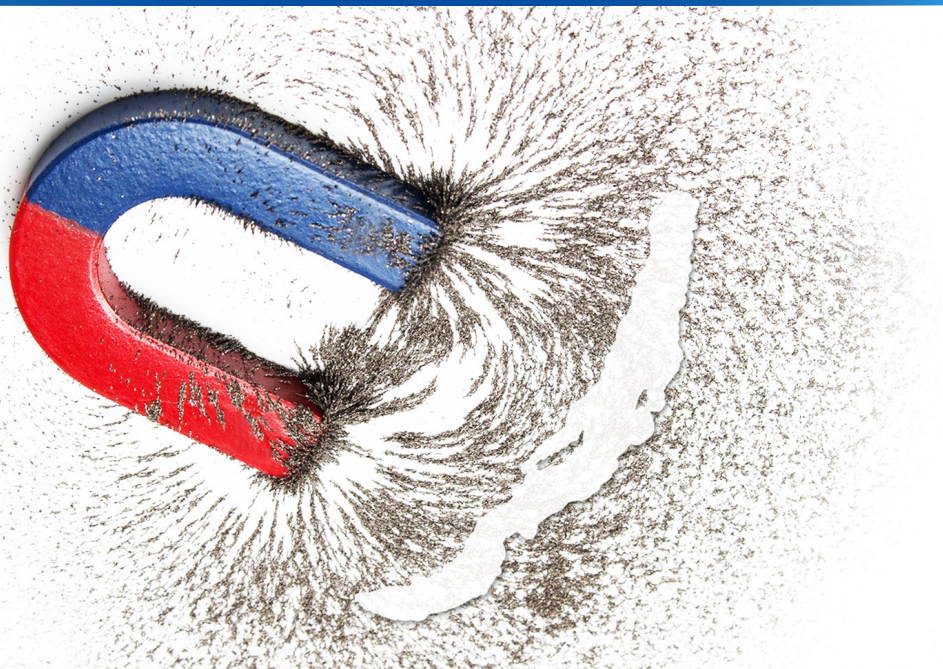


# PROGRAM OF 9<sup>TH</sup> BAIKAL INTERNATIONAL CONFERENCE “MAGNETIC MATERIALS. NEW TECHNOLOGIES”

**BICMM** RUSSIA, BAIKALSK  
11-14 SEPTEMBER  
**2023**  
MAGNETIC MATERIALS. NEW TECHNOLOGIES



11 – 14 September, 2023  
Baikalsk, Russia

**TOPICS OF CONFERENCE:**

- ❖ **Section A. Magnetic materials for recording.**
- ❖ **Section B. Soft magnetic materials.**
- ❖ **Section C. Hard magnetic materials.**
- ❖ **Section D. Nanomagnetism and Nanostructure.**
- ❖ **Section E. Multiferroics.**
- ❖ **Section F. Magnetic domains, domain walls, processes of magnetic reversal.**
- ❖ **Section G. Magneto-optical phenomena.**
- ❖ **Section H. Magnetism in biology and medicine.**
- ❖ **Section I. Transport phenomena, giant magnetic resistance, giant magnetic impedance.**
- ❖ **Section J. Magnetic anisotropy, magnetostriction, magnetoelastic phenomena.**
- ❖ **Section K. Principles and techniques of measurement of magnetic parameters.**
- ❖ **Section L. Modern technologies for receipt of materials.**
- ❖ **Section M. Methods of teaching materials technology disciplines.**

**The Tentative Scientific Program of the IX Baikal International Conference “Magnetic Materials. New Technologies”  
11.09.2023 - 14.09.2023**

**September 11 (Monday)**

9 <sup>00</sup> -13 <sup>00</sup>	<p align="center"><b>Registration of BICMM-2023 participants</b></p> <p align="center">Address of the registration: Nizhnyaya Naberezhnaya st., 6, Irkutsk</p> <p align="center">The registration will be continued in Baikalsk</p>
13 <sup>30</sup>	<p align="center"><b>Transfer to Baikalsk</b></p> <p align="center">Nizhnyaya Naberezhnaya st., 6, Irkutsk</p>
18 <sup>00</sup>	<p align="center"><b>Conference opening ceremony</b></p> <p align="center"><b>Klyukva Restaurant</b></p> <p align="center"><i>Mikrorayon Krasnyy klyuch, 95</i></p>
18 <sup>00</sup> -20 <sup>00</sup>	<p align="center"><b>Welcome Party</b></p> <p align="center"><b>Klyukva Restaurant</b></p> <p align="center"><i>Mikrorayon Krasnyy klyuch, 95</i></p>

**September 12 (Tuesday)**

	<p align="center"><b>Plenary Talks</b></p> <p align="center"><b>(Vysota 900)</b></p>
10 <sup>00</sup> -10 <sup>35</sup>	<p align="center"><b>MICROMAGNETIC STRUCTURE AND PROPERTIES OF MAGNETICALLY SOFT ALLOYS</b></p> <p align="center"><b><u>Perov N.S.</u><sup>1,2*</sup>, Alekhina Yu.A.<sup>1</sup>, Makarova L.A.<sup>1,2</sup>, Perova N.N.<sup>1</sup>, Shalygin A.N.<sup>1</sup>, Shendrikova L.A.<sup>1</sup>, Ustinov K.A.<sup>1</sup></b></p> <p align="center"><sup>1</sup>Lomonosov Moscow State University, Moscow, Russian Federation</p> <p align="center"><sup>2</sup>Kant Baltic Federal University, Kaliningrad, Russian Federation</p>

10 <sup>35</sup> -11 <sup>10</sup>	<p align="center"><b>COMPOSITE NANOPARTICLES CONTAINING GADOLINIUM: ELECTROPHYSICAL METHODS IN COMBINATION WITH MECHANOCHEMISTRY</b></p> <p align="center"><b><u>Kurlyandskaya G.V.</u>*, Mikhnevich E.A., Andreev S.V., Svalov A.V.</b></p> <p align="center"><i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>
11 <sup>10</sup> -11 <sup>45</sup>	<p align="center"><b>BRILLOUIN LIGHT SCATTERING AS A METHOD OF STUDY OF RECONFIGURABLE MAGNONIC CRYSTAL STRUCTURE</b></p> <p align="center"><b><u>Sadovnikov A.V.</u>*, Sheshukova S.E., Beginin E.N.</b></p> <p align="center"><i>Saratov State University, Saratov Russian Federation</i></p>
11 <sup>45</sup> -12 <sup>00</sup>	<b><i>Coffee break</i></b>
<b><i>Oral Presentations</i></b>	
12 <sup>00</sup> -12 <sup>35</sup>	<p align="center"><b>ADDITIVE MANUFACTURING OF FUNCTIONAL MAGNETIC MATERIALS</b></p> <p align="center"><b>Andreev S.V.<sup>1</sup>, Golovnia O.A.<sup>1,2</sup>, Golubyatnikova A.A.<sup>1</sup>, Maltseva V.E.<sup>1</sup>, Neznakhin D.S.<sup>1</sup>, Selezneva N.V.<sup>1</sup>, Stepanova E.A.<sup>1</sup>, <u>Shalaginov A.N.</u><sup>1</sup>, <u>Volegov A.S.</u><sup>1,2*</sup></b></p> <p align="center"><sup>1</sup><i>Ural Federal University named after the first President of Russia B.N. Yeltsin, Ekaterinburg, Russian Federation</i> <sup>2</sup><i>Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i></p>
12 <sup>35</sup> -13 <sup>00</sup>	<p align="center"><b>HYBRID INORGANIC-ORGANIC NANOBIOCOMPOSITES AS PROMISING PLATFORMS FOR INTERDISCIPLINARY RESEARCH AND TECHNOLOGY</b></p> <p align="center"><b><u>Sukhov B.G.</u>, Trofimov B.A., Regdel D.</b></p> <p align="center"><i>V.V. Voevodsky Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk, Russian Federation</i></p>
13 <sup>00</sup> -13 <sup>15</sup>	<p align="center"><b>STUDY OF COMPOSITE COATINGS Fe-C, Co-C AND Ni-C USING STATIC AND DYNAMIC METHODS</b></p> <p align="center"><b><u>Vazhenina I.G.</u><sup>1,2*</sup>, Stolyar S.V.<sup>2,3</sup>, Komogortsev S.V.<sup>1</sup>, Li O.A.<sup>2,3</sup>, Iskhakov R.S.<sup>1</sup>, Velikanov D.A.<sup>1</sup>, Cheremiskina E.V.<sup>2</sup>, Nemtsev I.V.<sup>1,2,3</sup></b></p> <p align="center"><sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i> <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i> <sup>3</sup><i>Krasnoyarsk Scientific Center SB RAS, Krasnoyarsk, Russian Federation</i></p>
13 <sup>15</sup> -15 <sup>00</sup>	<b><i>Lunch</i></b>

## Oral Presentations

<i>Mikrorayon Krasnyy klyuch, 91L Bldg.1 Second floor</i>		<i>Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor</i>	
<i>Sections: D, H and J</i>		<i>Sections: A, B, C, E, F, G, I, K, L, M.</i>	
<b>15<sup>00</sup>-15<sup>15</sup></b>	<b>MAGNETIC PROPERTIES OF RARE-EARTH INTERMETALLICS RMn<sub>2</sub>Si<sub>2</sub></b> <b><u>Mushnikov N.V.</u><sup>*</sup> and Gerasimov E.G.</b> <i>M.N. Mikheev Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i>	<b>15<sup>00</sup>-15<sup>15</sup></b>	<b>MAGNETOELECTRIC EFFECT AND <math>H_C</math>-<math>T</math> PHASE DIAGRAM IN DyFeO<sub>3</sub> ORTHOFERRITE</b> <b><u>Ivanov V.Yu.</u><sup>*</sup>, Kuzmenko A.M., Tikhonovskii A.Yu., and Mukhin A.A.</b> <i>Prokhorov General Physics Institute RAS, Moscow, Russian Federation</i>
<b>15<sup>15</sup>-15<sup>30</sup></b>	<b>FMR AND SWR IN PLANAR COMPOSITE STRUCTURES</b> <b><u>Iskhakov R.S.</u><sup>1</sup>, Vazhenina I.G.<sup>1,2*</sup>, Stolyar S.V.<sup>2,3</sup>, Yakovchuk V.Yu.<sup>1</sup></b> <i><sup>1</sup>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i> <i><sup>2</sup>Siberian Federal University, Krasnoyarsk, Russian Federation</i> <i><sup>3</sup>Krasnoyarsk Scientific Center SB RAS, Krasnoyarsk, Russian Federation</i>	<b>15<sup>15</sup>-15<sup>30</sup></b>	<b>MAGNETISATION REVERSAL PROCESSES IN SINTERED MAGNETS Nd-Fe-B TYPE</b> <b><u>Urzhumtsev A.N.</u><sup>1,2*</sup>, Maltseva V.E.<sup>1</sup> and Volegov A.S.<sup>1</sup></b> <i><sup>1</sup>Ural Federal University, Yekaterinburg, Russian Federation</i> <i><sup>2</sup>POZ-Progress Ltd., Verkhnyaya Pyshma, Russian Federation</i>
<b>15<sup>30</sup>-15<sup>45</sup></b>	<b>INTERLAYER INTERACTION AND MAGNETIC ANISOTROPY OF FeNi MULTILAYER FILMS WITH ORTHOGONAL ANISOTROPY AXES IN ADJACENT LAYERS</b> <b><u>Svalov A.V.</u><sup>1*</sup>, Pasyukova A.A.<sup>1,2</sup>, Lepalovskij V.N.<sup>1</sup>, Kudyukov E.V.<sup>1</sup>, Feshchenko A.A.<sup>1</sup>, Rusalina A.S.<sup>1</sup> and Kurlyandskaya G.V.<sup>1</sup></b> <i><sup>1</sup>Ural Federal University, Ekaterinburg, Russian Federation</i> <i><sup>2</sup>Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i>	<b>15<sup>30</sup>-15<sup>45</sup></b>	<b>MAGNETIC INTERACTION FEATURES IN HOLMIUM AND YTTERBIUM RARE EARTH TITANATES DOPED WITH YTTRIUM AND BISMUTH</b> <b><u>Nemytova O.V.</u><sup>1</sup>, Rinkevich A.B.<sup>1</sup>, Perov D.V.<sup>1</sup>, Koroleva M.S.<sup>2</sup>, Piir I.V.<sup>2</sup></b> <i><sup>1</sup>M.N. Miheev Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i> <i><sup>2</sup>Institute of Chemistry UB RAS, Syktyvkar, Russian Federation</i>
<b>15<sup>45</sup>-16<sup>00</sup></b>	<b>MAGNETO-DIPOLE INTERACTION IN 2D IRON NANOWIRES ARRAY</b> <b>Semenov S.V.<sup>1</sup>, <u>Komogortsev S.V.</u><sup>1</sup>, Balaev D.A.<sup>1</sup>, Zagorskiy D.L.<sup>2*</sup></b> <i><sup>1</sup>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i> <i><sup>2</sup>FSRC "Crystallography and Photonics" RAS, Moscow, Russian Federation</i>	<b>15<sup>45</sup>-16<sup>00</sup></b>	<b>MICROMAGNETIC SIMULATION OF IRREGULAR MAGNETIZATION REVERSAL DYNAMICS IN A NANOSIZED PERMALLOY FILM WITH A STEPPED BOUNDARY SURFACE RELIEF</b> <b><u>Zverev V.V.</u><sup>1,2*</sup></b> <i><sup>1</sup>Ural Federal University, Yekaterinburg, Russian Federation</i> <i><sup>2</sup>Institute of Metal Physics UB RAS, Yekaterinburg, Russian Federation</i> <b>(online)</b>

16 <sup>00</sup> –16 <sup>15</sup>	<p style="text-align: center;"><b>SYNTHESIS, PHASE COMPOSITION AND MAGNETIC PROPERTIES OF THE CORE-SHELL IRON CARBIDE NANOPARTICLES OBTAINED AT HIGH PRESSURE AND TEMPERATURE</b></p> <p style="text-align: center;"><b><u>Starchikov S.S.</u><sup>1*</sup>, Zayakhanov V.A.<sup>1</sup>, Vasiliev A.L.<sup>1</sup>, Bykov A.A.<sup>2</sup>, Bulatov K.M.<sup>2</sup>, Troyan I.A.<sup>1</sup>, Lyubutin I.S.<sup>1</sup>, Snegirev N.I.<sup>1</sup>, Perekalin D.S.<sup>3</sup>, Davydov V.A.<sup>4</sup></b></p> <p><sup>1</sup> <i>A.V. Shubnikov Institute of Crystallography of FSRC “Crystallography and Photonics” RAS, Moscow, Russian Federation</i></p> <p><sup>2</sup> <i>Scientific and Technological Centre of Unique Instrumentation RAS, Moscow, Russian Federation</i></p> <p><sup>3</sup> <i>A.N. Nesmeyanov Institute of Organoelement Compounds RAS, Moscow, Russian Federation</i></p> <p><sup>4</sup> <i>L.F. Vereshchagin Institute for High Pressure Physics RAS, Troitsk, Moscow, Russian Federation</i></p>	<p style="text-align: center;"><b>INFLUENCE OF INDIUM ON THE STRUCTURE AND MAGNETIC PROPERTIES OF TbCo<sub>2</sub></b></p> <p style="text-align: center;"><b><u>Politova G.A.</u><sup>1,2*</sup>, Morozov D.A.<sup>1</sup>, Ganin M.A.<sup>1</sup>, Mikhailova A.B.<sup>1</sup>, Filimonov A.V.<sup>2</sup></b></p> <p><sup>1</sup> <i>Baikov Institute of Metallurgy and Materials Science RAS, Moscow, Russian Federation</i></p> <p><sup>2</sup> <i>Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russian Federation</i></p>
16 <sup>15</sup> –16 <sup>30</sup>	<p style="text-align: center;"><b>ARTIFICIALLY CREATED INTERFACE IMPERFECTIONS AS A METHOD TO CONTROL MULTILAYER MAGNETIC PROPERTIES</b></p> <p style="text-align: center;"><b><u>Pervishko A.A.</u><sup>*</sup></b></p> <p style="text-align: center;"><i>Skolkovo Institute of Science and Technology, Moscow, Russian Federation</i></p>	<p style="text-align: center;"><b>MAGNETORESISTANCE OF A TWO-DIMENSIONAL ELECTRON GAS OF ALGAN/ALN/GAN HETEROSTRUCTURES ON SILICON SUBSTRATES</b></p> <p style="text-align: center;"><b><u>N.K. Chumakov</u>, I.V. Belov, A.A. Andreev, I.S. Ezubchenko, I.A. Chernykh, S.N. Nikolayev, S.Yu. Shabanov, V.G. Valeyev</b></p> <p style="text-align: center;"><i>National Research Center “Kurchatov Institute”, Moscow, Russian Federation</i></p> <p style="text-align: center;"><b>(online)</b></p>
16 <sup>30</sup> –16 <sup>45</sup>	<p><b><i>Coffee break</i></b></p> <p><i>Mikrorayon Krasnyy klyuch, 91L Bldg.1</i></p> <p>first floor</p>	
16 <sup>45</sup> –18 <sup>15</sup>	<p><b><i>Poster Presentation (All sections)</i></b></p> <p><b><i>Mikrorayon Krasnyy klyuch, 91L Bldg.1</i></b></p>	



## September 13 (Wednesday)

	<i>Mikrorayon Krasnyy klyuch, 91L Bldg.1 Second floor</i>	<i>Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor</i>
	<i>Sections: D, H and J</i>	<i>Sections: A, B, C, E, F, G, I, K, L, M.</i>
<b>Oral Presentations</b>		
<b>09<sup>00</sup>-09<sup>15</sup></b>	<p style="text-align: center;"><b>FERROMAGNETIC RESONANCE IN SUPERPARAMAGNETIC PARTICLES NiFe<sub>2</sub>O<sub>4</sub></b> <b><u>Stolyar S.V.</u><sup>1,3*</sup>, Li O.A.<sup>2,3</sup>, Iskhakov R.S.<sup>2</sup>, Boev N.M.<sup>2,3</sup>, Shokhrina A.O.<sup>1,3</sup></b></p> <p><sup>1</sup>Krasnoyarsk Scientific Center SB RAS, Krasnoyarsk, Russian Federation <sup>2</sup>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation <sup>3</sup>Siberian Federal University, Krasnoyarsk, Russian Federation</p>	<p style="text-align: center;"><b>THERMOMAGNETOMETRIC ANALYSIS OF MAGNETIC PHASE TRANSITIONS OF NICKEL-ZINC FERRITES WITH VARYING DEGREES OF DISPERSION</b> <b><u>Bobuyok S.</u><sup>*</sup>, Nikolaev E.V., Surzhikov A.P., Lysenko E.N.</b> <i>Tomsk Polytechnic University, Tomsk, Russian Federation</i></p>
<b>09<sup>15</sup>-09<sup>30</sup></b>	<p style="text-align: center;"><b>CONTROLLING THE TEMPERATURE OF THE SPIN- REORIENTATION TRANSITION IN HOFe<sub>1-x</sub>MN<sub>x</sub>O<sub>3</sub> ORTHO-FERRITE SINGLE CRYSTALS</b> <b>Shaykhutdinov K.A.<sup>1</sup>, Knyazev Yu.V.<sup>1</sup>, Kamkova T.N.<sup>1,2</sup>, Vasil'ev A.D.<sup>1,2</sup>, Semenov S.V.<sup>1,2</sup>, Pavlovskii M.S.<sup>1,2</sup>, Krasikov A.A.<sup>1</sup>, <u>Skorobogatov S.A.</u><sup>1</sup></b></p> <p><sup>1</sup>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation <sup>2</sup>Siberian Federal University, Krasnoyarsk Russian Federation <i>(online)</i></p>	<p style="text-align: center;"><b>SYNTHESIS OF LITHIUM-ZINC FERRITE FROM MECHANICALLY ACTIVATED POWDERS</b> <b><u>Elkin V.D.</u><sup>*</sup>, Lysenko E.N., Nikolaev E.V.</b> <i>Tomsk Polytechnic University, Tomsk, Russian Federation</i></p>
<b>09<sup>30</sup>-09<sup>45</sup></b>	<p style="text-align: center;"><b>A METHOD OF MANDELSTAM-BRILLOUIN SPECTROSCOPY FOR NON-INVASIVE DETECTION OF MAGNETIC AND STIFFNESS PROPERTIES OF CANCER CELLS IN VITRO</b> <b><u>Khutieva A.B.</u><sup>*</sup>, Lomova M.V. and Sadovnikov A.V.</b> <i>Saratov State University, Saratov, Russian Federation</i></p>	<p style="text-align: center;"><b>FEATURES OF THE ELECTRONIC PROPERTIES OF TOPOLOGICAL SEMIMETAL MoTe<sub>2</sub> AND WTe<sub>2</sub> SINGLE CRYSTALS</b> <b><u>Perevalova A.N.</u><sup>1*</sup>, Naumov S.V.<sup>1</sup>, Shreder E.I.<sup>1</sup>, Neverov V.N.<sup>1</sup>, Marchenkova E.B.<sup>1</sup> and Marchenkov V.V.<sup>1,2</sup></b> <sup>1</sup>Mikheev Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation <sup>2</sup>Ural Federal University, Ekaterinburg, Russian Federation</p>

09 <sup>45</sup> -10 <sup>00</sup>	<p align="center"><b>SPECIAL POINTS OF THE RADIATION SPECTRUM OF LEAKY SURFACE MAGNON POLARONS</b>  <b>Sukhorukova O.S.</b><sup>1</sup>, <b><u>Tarasenko A.S.</u></b><sup>1</sup>, <b>Tarasenko S.V.</b><sup>1</sup>,  <b>Shavrov V.G.</b><sup>2</sup></p> <p><sup>1</sup> <i>Donetsk Institute of Physics and Technology, Donetsk, Russian Federation</i>  <sup>2</sup> <i>Kotelnikov Institute of Radio Engineering and Electronics, Russian Academy of Sciences, Moscow, Russian Federation</i></p>	<p align="center"><b>SINGULARITIES OF THE TOPOLOGY OF THE PLANAR COMPONENTS OF VECTOR FIELDS IDENTIFIED EXPERIMENTALLY USING THE MAGNETO-OPTICAL KERR EFFECT.</b>  <b><u>Boguslavskiy L.G.</u></b><sup>*</sup>, <b>Ivanov V.E.</b>, <b>Feshchenko A.A.</b>,  <b>Andreev S.V.</b>, <b>Lepalovskiy V.N.</b></p> <p><i>Ural Federal University, Yekaterinburg, Russian Federation</i></p>
10 <sup>00</sup> -10 <sup>15</sup>	<p align="center"><b>FEATURES OF THE MICROWAVE MAGNETIC DYNAMICS OF TWO-LAYER MAGNETIC STRUCTURE FOR DIFFERENT EXCHANGE COUPLING CONSTANTS</b>  <b><u>Abramovsky I.E.</u></b><sup>*</sup>, <b>Vlasov V.S.</b>, <b>Kotov L.N.</b></p> <p><i>Syktvykar State University, Syktvykar, Russian Federation</i></p>	<p align="center"><b>REMAGNETIZATION PROCESSES IN NANOSTRUCTURED ALLOYS OF THE PR-FE-B AND SM-CO SYSTEMS</b>  <b><u>Maltseva V.E.</u></b>, <b>Andreev S.V.</b>, <b>Urzhumtsev A.N.</b>, <b>Volegov A.S.</b></p> <p><i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>
10 <sup>15</sup> -10 <sup>30</sup>	<p align="center"><b>GRAPHICAL STRUCTURES IN THE THEORY OF TORSION-FREE ABELIAN GROUPS AND NANOMATERIALS</b>  <b><u>Blagoveshchenskaya E.A.</u></b><sup>*</sup>, <b>Mikulik I.I.</b></p> <p><i>Emperor Alexander I St. Petersburg State Transport University, St. Petersburg, Russian Federation</i></p>	<p align="center"><b>ВЛИЯНИЕ НОРМАЛЬНОЙ СОСТАВЛЯЮЩЕЙ НА ВЕКТОРИЗАЦИЮ ПЛОСКОСТНОЙ СОСТАВЛЯЮЩЕЙ НЕОДНОРОДНОГО МАГНИТНОГО ПОЛЯ</b>  <b><u>Иванов В.Е.</u></b></p> <p><i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>
10 <sup>30</sup> -10 <sup>45</sup>	<i>Coffee break</i>	
10 <sup>45</sup> -11 <sup>00</sup>	<p align="center"><b>МЕТОДЫ МАШИННОГО ОБУЧЕНИЯ ДЛЯ ПОИСКА ТОПОЛОГИЧЕСКИХ СПИНОВЫХ ТЕКСТУР</b>  <b>Парадеженко Г.В.</b><sup>1</sup>, <b>Первишко А.А.</b><sup>1</sup>, <b><u>Юдин Д.И.</u></b><sup>1</sup></p> <p><sup>1</sup> <i>Сколковский институт науки и технологий, Москва, Россия</i></p>	<p align="center"><b>EFFECTS OF EXCHANGE BIAS AND MAGNETIC PROXIMITY IN TRILAYER FeNi/V<sub>2</sub>O<sub>3</sub>/FeNi FILMS</b>  <b><u>G.S. Patrin</u></b><sup>1,2</sup>, <b>A.V. Kobyakov</b><sup>1,2</sup>, <b>B.I. Yushkov</b><sup>1,2</sup>,  <b>I.O. Anisimov</b><sup>1</sup>, <b>S.M. Zharkov</b><sup>1,2</sup>, <b>S.V. Semenov</b><sup>2</sup>,  <b>E.T. Moiseenko</b><sup>1</sup></p> <p><sup>1</sup> <i>Siberian Federal University, Krasnoyarsk, Russian Federation</i>  <sup>2</sup> <i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <i>(online)</i></p>
11 <sup>00</sup> -11 <sup>15</sup>	<p align="center"><b>SYNTHESIS AND COMPARISON OF MORPHOLOGY AND MAGNETIC PROPERTIES OF NANOWIRES OF 3D TRANSITION METAL ALLOYS IN AN ALUMINUM OXIDE MATRIX</b></p>	<p align="center"><b>ELECTRONIC AND MAGNETIC PROPERTIES OF COBALT AND MANGANESE BASED HEUSLER ALLOYS</b>  <b><u>Marchenkov V.V.</u></b><sup>1,2*</sup>, <b>Irkhin V.Yu.</b><sup>1,2</sup></p> <p><sup>1</sup> <i>Mikheev Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i></p>



	<p><b><u>Dryagina A.E.</u><sup>1*</sup>, Gorkovenko A.N.<sup>1</sup>, Kulesh N.A., Vas'kovski V.O.<sup>1,2</sup></b>  <sup>1</sup><i>Ural Federal University, Ekaterinburg, Russian Federation</i>  <sup>2</sup><i>Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i></p>	<p><sup>2</sup><i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>
11 <sup>15</sup> -11 <sup>30</sup>	<p><b>STUDY OF PROPERTIES OF HALF <math>d^0</math>-<math>d</math> HEUSLER ALLOYS BASED ON KMnZ (Z = Bi, Pb, Sb, Sn) SYSTEMS</b>  <b><u>Matyunina M.V.</u><sup>*</sup>, Baigutlin D.R., Sokolovskiy V.V., Buchelnikov V.D.</b>  <i>Chelyabinsk State University, 4Chelyabinsk, Russian Federation</i></p>	<p><b>FORMATION OF MAGNETIC NANOPARTICLES BY LASER ABLATION OF COBALT THIN FILMS IN WATER</b>  <b><u>Zabotnov S.V.</u><sup>1*</sup>, Nesterov V.Yu.<sup>1,2</sup>, Shuleiko D.V.<sup>1</sup>, Presnov D.E.<sup>1,3</sup>, Konstantinova E.A.<sup>1</sup>, Chechenin N.G.<sup>1,3</sup> Dzhun I.O.<sup>3</sup></b>  <sup>1</sup><i>Lomonosov Moscow State University, Moscow, Russian Federation</i>  <sup>2</sup><i>Moscow Institute of Physics and Technology, Dolgoprudny, Russian Federation</i>  <sup>3</sup><i>Lomonosov Moscow State University, Skobeltsyn Institute of Nuclear Physics, Moscow, Russian Federation</i></p>
11 <sup>30</sup> -11 <sup>45</sup>	<p><b>COMPOSITIONAL MODIFICATION OF THE PROPERTIES OF THE HIGH-TEMPERATURE Cr-Mn ANTIFERROMAGNET AS A SOURCE OF EXCHANGE BIAS IN FERRO-/ANTIFERROMAGNET FILM STRUCTURES</b>  <b><u>A.A. Feshchenko</u><sup>1</sup>, M.E. Moskalev<sup>1</sup>, V.N. Lepalovskij<sup>1</sup>, V.O. Vas'kovskiy<sup>1,2</sup></b>  <sup>1</sup><i>Ural Federal University, Ekaterinburg, Russian Federation</i>  <sup>2</sup><i>Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i></p>	<p><b>TUNABLE FREQUENCY-SELECTIVE FILTERING OF SPIN WAVES IN YIG/PZT MULTIFERROIC STRUCTURES</b>  <b><u>Grachev A.A.</u><sup>1</sup>, Gorlach M.A.<sup>2</sup>, Beginin E.N.<sup>1</sup>, Sadovnikov A.V.<sup>1</sup></b>  <sup>1</sup><i>Saratov State University, Saratov Russian Federation</i>  <sup>2</sup><i>ITMO University, Saint Petersburg Russian Federation</i></p>
11 <sup>45</sup> -12 <sup>00</sup>	<p><b>RESISTIVE SWITCHING IN NITRIDE MEMRISTORS EXPERIMENT AND NUMERICAL MODEL</b>  <b>M.A. Danilyak, I.V. Belov, I.S. Ezubchenko, I.A. Chernykh, A.A. Andreev, O.A. Kondratyev, N.K. Chumakov, <u>V.G. Valeyev</u></b>  <i>National Research Center "Kurchatov Institute", Moscow, Russian Federation</i>  <b>(online)</b></p>	<p><b>STRUCTURE OF DOMAIN WALLS AND DOMAIN CONFIGURATIONS IN THE Fe<sub>15</sub>Co<sub>20</sub>Ni<sub>65</sub> BILAYER FILM WITH A THIN NONMAGNETIC INTERLAYER</b>  <b>Savin P.A. <sup>*</sup>, Lepalovskij V.N., Vas'kovskiy V.O.</b>  <i>Ural Federal University, Ekaterinburg, Russian Federation</i>  <b>(online)</b></p>

12 <sup>00</sup> -12 <sup>15</sup>	<p align="center"><b>SUPERPARAMAGNETIC RELAXATION IN ENSEMBLES OF ULTRASMALL FERRIHYDRITE NANOPARTICLES</b></p> <p align="center"><b>Balaev D.A.<sup>1,2</sup>, Skorobogatov S.A.<sup>1,2</sup>, Velikanov D.A.<sup>1</sup>, Bayukov O.A.<sup>1</sup>, Stolyar S.V.<sup>1,2</sup>, Yaroslavtsev R.N.<sup>1</sup>, Iskhakov R.S.<sup>1</sup>, <u>Knvazev Yu.V.</u><sup>1*</sup></b></p> <p align="center"><sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i> <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i></p>	<p align="center"><b>RESONANT MAGNETOELECTRIC EFFECT IN RING HETEROSTRUCTURES</b></p> <p align="center"><b><u>Musatov V.I.</u>, Fedulov F.A., Savelev D.V., Fetisov L.Yu., Fetisov Yu.K.</b></p> <p align="center"><i>RTU MIREA, Moscow, Russian Federation</i> <b>(online)</b></p>
12 <sup>15</sup>	<b><i>Lunch</i></b>	
14 <sup>00</sup> -19 <sup>00</sup>	<b><i>Excursion</i></b> <i>Mikrorayon Krasnyy klyuch, 91L Bldg.2 parking</i>	
19 <sup>00</sup>	<b><i>Conference dinner</i></b> <b>Klyukva Restaurant,</b> <i>Mikrorayon Krasnyy klyuch, 95</i>	

### **September 14 (Thursday)**

09 <sup>00</sup>	<b>Excursion to Circum-Baikal Railway (for registered)</b> <i>Mikrorayon Krasnyy klyuch, 91L Bldg.2 parking</i>	
	<b><i>Oral Presentations</i></b>	
	<i>Mikrorayon Krasnyy klyuch, 91L Bldg.1 Second floor</i>	<i>Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor</i>
	<b><i>Sections: D, H and J</i></b>	<b><i>Sections: A, B, C, E, F, G, I, K, L, M.</i></b>

09 <sup>00</sup> -09 <sup>15</sup>	<p><b>MAGNETITE NANOPARTICLES DILUTED WITH CO AND Mg IONS: MAGNETIC PROPERTIES AND APPLICATION</b>  <b>Ivanova O.S.<sup>1,2*</sup>, Svetlitsky E.S.<sup>1</sup>, Petrov D.A.<sup>1</sup>, Knyazev Yu.V.<sup>1,2</sup></b>  <sup>1</sup> <i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup> <i>Siberian Federal University, Krasnoyarsk, Russian Federation</i></p>	<p><b>SELF-ORGANIZATION OF THE MAGNETIC DOMAIN STRUCTURE OF A FERROMAGNETIC FILM</b>  <b><u>Mekhonoshin D.S.</u><sup>*</sup>, Pamyatnykh L.A.</b>  <i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>
09 <sup>15</sup> -09 <sup>30</sup>	<p><b>THEORETICAL AND NUMERICAL SIMULATION OF OPTICAL SWITCHING OF EPITAXIAL NANOSTRUCTURES BASED ON IRON-CONTAINING GARNET</b>  <b><u>Yurlov V.V.</u><sup>1,2,4*</sup>, Zvezdin K.A.<sup>1,2,3</sup> and Zvezdin A.K.<sup>1,2,3</sup></b>  <sup>1</sup> <i>MIREA – Russian Technological University, Moscow, Russian Federation</i>  <sup>2</sup> <i>New spintronic technologies, Moscow, Russian Federation</i>  <sup>3</sup> <i>Prokhorov General Physics Institute RAS, Moscow, Russian Federation</i>  <sup>4</sup> <i>Moscow Institute of Physics and Technology, Dolgoprudny, Russian Federation</i></p>	<p><b>SPIN WAVE PROPAGATION IN A MAGNON-CRYSTALLINE YIG/GAAS STRUCTURE</b>  <b><u>Martyshkin A.A.</u><sup>1*</sup>, Bublikov K.<sup>2</sup> and Sadovnikov A.V.<sup>1</sup></b>  <sup>1</sup> <i>Saratov State University, Saratov, Russian Federation</i>  <sup>2</sup> <i>Institute of Electrical Engineering, Slovak Academy of Sciences, Bratislava, Slovakia</i></p>
09 <sup>30</sup> -09 <sup>45</sup>	<p><b>FERROMAGNETIC RESONANCE IN MULTILAYER SOFT/HARD/SOFT FILMS</b>  <b><u>Orlov V.A.</u><sup>1,2*</sup>, Patrino G.S.<sup>1,2</sup>, Shiyan Ya.G.<sup>1,2</sup></b>  <sup>1</sup> <i>Siberian Federal University, Krasnoyarsk, Russian Federation</i>  <sup>2</sup> <i>L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <i>(online)</i></p>	<p><b>INVESTIGATION OF THERMAL AND ELECTRON-BEAM SINTERING OF LITHIUM AND LITHIUM-ZINC FERRITES WITH THE ADDITION OF BISMUTH OXIDE</b>  <b><u>Minina Yu.S.</u><sup>1*</sup>, Lysenko E.N.<sup>1</sup>, Nikolaeva S.A.<sup>1</sup>, Nikolaev E.V.<sup>1</sup>, Vlasov V.A.<sup>1</sup></b>  <sup>1</sup> <i>National Research Tomsk Polytechnic University, Tomsk, Russian Federation</i></p>
09 <sup>45</sup> -10 <sup>00</sup>	<p><b>THE GRANULATED AND MAGNETIC STRUCTURE OF (CoFeB+SiO<sub>2</sub>) COMPOSITE FILMS SPUTTERED IN THE NITROGEN ATMOSPHERE</b>  <b><u>Ustyugov V.A.</u><sup>1</sup>, Utkin A.A.<sup>1</sup>, Kovalev P.D.<sup>1</sup>, Kotov L.N.<sup>1*</sup>, Kalinin Yu.E.<sup>2</sup>, Sitnikov A.V.<sup>2</sup></b>  <sup>1</sup> <i>Syktuykar State University, Syktuykar, Russian Federation</i>  <sup>2</sup> <i>Voronezh State Technical University, Voronezh, Russian Federation</i>  <i>(online)</i></p>	<p><b>SPIN COULOMB DRAG IN NON-EQUILIBRIUM MAGNETIC TEXTURES</b>  <b>Lyapilin I. I.<sup>1,2</sup></b>  <sup>1</sup> <i>M.N. Mikheev Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i>  <sup>2</sup> <i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>
10 <sup>00</sup> -10 <sup>15</sup>		<p><b>AUTOMATION OF THE SYSTEM FOR PULSED LASER DEPOSITION OF MAX-PHASE THIN FILMS</b></p>

		<p><b><u>Andryushchenko T.A.</u></b><sup>1*</sup>, Lyaschenko S.A.<sup>1</sup>, Varnakov S.N.<sup>1</sup>,  <b>Ovchinnikov S.G.</b><sup>1,2</sup>, Shevtsov D.V.<sup>1</sup>, Yakovlev I.A.<sup>1</sup>,  <b>Maximova O.A.</b><sup>1,2</sup></p> <p><sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i></p>
10 <sup>15</sup> -10 <sup>30</sup>		
10 <sup>30</sup> -10 <sup>45</sup>	<b><u>Concluding Remarks and Closing</u></b>	
10 <sup>45</sup> -12 <sup>45</sup>	<i>Lunch</i>	
13 <sup>00</sup>	<b>Departure to Irkutsk</b> <i>Mikrorayon Krasnyy klyuch, 91L Bldg.2</i> parking	

**The BICMM Organizing Committee reserved to oneself the right of changing to the Tentative Conference Program under new appeared reasons.**

## POSTER SESSIONS

### PB. SOFT MAGNETIC MATERIALS

<p><b>THE LOW-TEMPERATURE ANNEALING AND MAGNETIC CHARACTERISTICS IN AMORPHOUS COBALT BASED ALLOY</b> <b>Nekrasov E.S.*</b>, <b>Skulkina N.A.*</b>, <b>Eremin Y.D.</b>, <b>Kuznetsov N.V.</b> and <b>Boyko A.N.</b> <i>Ural Federal University, Yekaterinburg, Russian Federation</i></p>	<b>PB-1</b>
<p><b>PECULIARITIES OF STRUCTURAL RELAXATION PROCESSES IN A RAPIDLY QUENCHED Fe<sub>75</sub>Ni<sub>2</sub>B<sub>13</sub>Si<sub>10</sub> ALLOY</b> <b><u>Pinchuk K.E.*</u></b>, <b>Tkachev V.V.</b>, <b>Ilin N.V.</b>, <b>Sapovckii I.M.</b>, <b>Rakhmatullaev T.R.</b>, <b>Kraynova G.S.</b> <i>Far Eastern Federal University, Vladivostok, Russian Federation</i></p>	<b>PB-2</b>
<p><b>INVESTIGATION OF THE MAGNETIC CHARACTERISTICS INHOMOGENEITY IN AMORPHOUS COBALT-BASED ALLOY</b> <b><u>Skulkina N.A.*</u></b>, <b>Nekrasov E.S.*</b> <b>Eremin Y.D.</b> and <b>Kuznetsov N.V.</b> <i>Ural Federal University, Yekaterinburg, Russian Federation</i></p>	<b>PB-3</b>
<p><b>PREDICTIONS OF THE COMPOSITION AND TREATMENT OF NANOCRYSTALLINE FINEMET-TYPE ALLOYS FE-SI-B-NB-CU TO IMPROVE MAGNETIC PROPERTIES USING MACHINE LEARNING</b> <b><u>Stepanova K.A.*</u></b>, <b>Kataev V.A.</b> <i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>	<b>PB-4</b>
<p><b>INFLUENCE OF INDIUM ON THE STRUCTURE AND MAGNETIC PROPERTIES OF TbCo<sub>2</sub></b> <b>Politova G.A.<sup>1,2*</sup></b>, <b>Morozov D.A.<sup>1</sup></b>, <b>Ganin M.A.<sup>1</sup></b>, <b>Mikhailova A.B.<sup>1</sup></b>, <b><u>Filimonov A.V.<sup>2</sup></u></b> <sup>1</sup> <i>Baikov Institute of Metallurgy and Materials Science RAS, Moscow, Russian Federation</i> <sup>2</sup> <i>Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russian Federation</i></p>	<b>PB-5</b>
<p><b>ACID ETCHING EFFECTS ON THERMAL STABILITY AND MORPHOLOGY IN CR-DOPED IRON-BASED AMORPHOUS RIBBONS</b> <b><u>E. A. Golygin<sup>1</sup></u></b>, <b>Y. S. Chen<sup>2</sup></b>, <b>J. G. Lin<sup>2</sup></b> and <b>A. A. Gavrilyuk<sup>1</sup></b> <sup>1</sup> <i>Irkutsk State University, Irkutsk, Russian Federation</i> <sup>2</sup> <i>Center for Condensed Matter Sciences, National Taiwan University, Taipei, Taiwan</i></p>	<b>PB-6</b>
<p><b>TEMPERATURE DEPENDENCE OF MAGNETIC CHARACTERISTICS OF AMORPHOUS WIRES BASED ON TRANSITION METALS</b> <b><u>Lyu-yu N.A.<sup>1*</sup></u></b>, <b>Zubritskii S.M.<sup>1</sup></b>, <b>Zhilina N.O.<sup>1</sup></b>, <b>Morozova N.V.<sup>1</sup></b>, <b>Gavrilyuk A.A.<sup>1</sup></b> <i>Irkutsk State University, Irkutsk, Russian Federation</i></p>	<b>PB-7</b>
<p><b>EFFECT OF ELASTIC TENSILE STRESSES ON THE MAGNETIC PROPERTIES OF METALLIC AMORPHOUS COBALT-BASED RIBBONS TREATED WITH DIRECT CURRENT</b> <b><u>Lyu-yu N.A.*</u></b>, <b>Golygin E.A.</b>, <b>Morozova N.V.</b>, <b>Gavrilyuk A.A.</b> <i>Irkutsk State University, Irkutsk, Russian Federation</i></p>	<b>PB-8</b>
<p><b>BOUNDARY LAYERS OF LIQUIDS AND SPIN GLASSES IN THE THEORY OF RANDOM FIRST ORDER TRANSITION</b> <b>Yu.V. Agrafov*</b>, <b>I.S. Petrushin</b> <i>Irkutsk State University, Irkutsk, Russian Federation</i></p>	<b>PB-9</b>

<p><b>STUDY OF PHASE TRANSFORMATIONS IN THIN-FILM SN/CO STRUCTURES UNDER VACUUM ANNEALING</b></p> <p><b>Matsynin A.A.<sup>1,2</sup>, Komogortsev S.V.<sup>1</sup>, Bykova L.E. and Eremin L.A.<sup>1</sup></b>  <sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russian Federation</i></p>	<p><b>PB-10</b></p>
<p><b>HF SPECTRA OF MAGNETIC PERMEABILITY AND LOSSES OF COMPOSITE FILMS: METAL-DIELECTRIC</b></p> <p><b>M.P. Lasek<sup>1</sup>, L.N. Kotov<sup>1</sup>, Kalinin Yu.E.<sup>2</sup>, Sitnikov A.V.<sup>2</sup></b>  <sup>1</sup><i>Syktvykar State University, Syktvykar, Russian Federation</i>  <sup>2</sup><i>Voronezh State Technical University, Voronezh, Russian Federation</i></p>	<p><b>PB-11</b></p>
<p><b>STRUCTURE AND MAGNETIC PROPERTIES OF (Bi-Y)<sub>3</sub>(Fe-Ga)<sub>5</sub>O<sub>12</sub> SYNTHESIZED BY SOL-GEL METHOD</b></p> <p><b>Tarasenko T.N.<sup>1</sup>, Zelenov F.V.<sup>2</sup>, Kovalev O.E.<sup>1</sup>, Griбанov I.F.<sup>1</sup>, Golovchan A.V.<sup>1</sup></b>  <sup>1</sup><i>Galkin Donetsk Institute for Physics and Engineering, Donetsk, Russian Federation</i>  <sup>2</sup><i>Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russian Federation</i></p>	<p><b>PB-12</b></p>
<p><b>FEATURES OF THE MAGNETIC BEHAVIOR OF DICHALCOGENIDES Co<sub>x</sub>TiS<sub>2</sub> (0.30 ≤ x ≤ 0.80)</b></p> <p><b>Urusova N.V.<sup>1*</sup>, Merentsov A.I.<sup>2</sup>, Stepanova E.A.<sup>3</sup></b>  <sup>1</sup><i>Institute of Solid State Chemistry, Ekaterinburg, Russian Federation</i>  <sup>2</sup><i>Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i>  <sup>3</sup><i>Institute of Natural Sciences and Mathematics UrFU, Ekaterinburg, Russian Federation</i></p>	<p><b>PB-13</b></p>
<p><b><u>PD. NANOMAGNETISM AND NANOSTRUCTURE</u></b></p>	
<p><b>CONTROL OF SPIN WAVES IN MAGNETO-DIELECTRIC MICRODISKS BY FEMTOSECOND LASER PULSES</b></p> <p><b><u>Bezmenova A.</u><sup>1,2*</sup>, Kobecki M.<sup>3</sup>, Akimov I.<sup>3,6</sup>, Savochkin I.<sup>1,2</sup>, Shaposhnikov A.<sup>5</sup>, Berzhansky V.<sup>5</sup>, Zvezdin A.<sup>1,4,7</sup>, Bayer M.<sup>3,6</sup>, Belotelov V.<sup>1,2</sup></b>  <sup>1</sup><i>Russian Quantum Center, Moscow, Russian Federation</i>  <sup>2</sup><i>Lomonosov Moscow State University, Moscow, Russian Federation</i>  <sup>3</sup><i>TU Dortmund, Germany</i>  <sup>4</sup><i>Prokhorov General Physics Institute RAS, Moscow, Russian Federation</i>  <sup>5</sup><i>Vernadsky Crimean Federal University, Simferopol, Russian Federation</i>  <sup>6</sup><i>Ioffe Institute RAS, Saint Petersburg, Russian Federation</i>  <sup>7</sup><i>National University of Science and Technology MISiS, Moscow, Russian Federation</i></p>	<p><b>PD-1</b></p>
<p><b>CONTROLLING THE DIRECTION OF SPIN WAVES GENERATED BY FEMTOSECOND LASER PULSES IN A GARNET FILM USING FERROMAGNETIC RESONANCE WITH OPTICAL EXCITATION</b></p> <p><b><u>Bezmenova A.</u><sup>1,2*</sup>, Kobecki M.<sup>3</sup>, Akimov I.<sup>3,6</sup>, Savochkin I.<sup>1,2</sup>, Shaposhnikov A.<sup>5</sup>, Berzhansky V.<sup>5</sup>, Zvezdin A.<sup>1,4,7</sup>, Bayer M.<sup>3,6</sup>, Belotelov A.<sup>1,2</sup></b>  <sup>1</sup><i>Russian Quantum Center, Moscow, Russian Federation</i>  <sup>2</sup><i>Lomonosov Moscow State University, Moscow, Russian Federation</i>  <sup>3</sup><i>TU Dortmund, Germany</i>  <sup>4</sup><i>Prokhorov General Physics Institute RAS, Moscow, Russian Federation</i>  <sup>5</sup><i>Vernadsky Crimean Federal University, Simferopol, Russian Federation</i>  <sup>6</sup><i>Ioffe Institute RAS, Saint Petersburg, Russian Federation</i>  <sup>7</sup><i>National University of Science and Technology MISiS, Moscow, Russian Federation</i></p>	<p><b>PD-2</b></p>
<p><b>FERROMAGNETIC RESONANCE IN NANOTHICK PERMALLOY FILMS</b></p> <p><b>Vyzulin S.A.<sup>1*</sup>, Syr'ev N. E.<sup>2</sup>, Belyaev B.A.<sup>3</sup>, <u>Vinokurov A.V.</u><sup>1</sup></b>  <sup>1</sup><i>Krasnodar Higher Military School named Army General S.M. Shtemenko", Krasnodar, Russian Federation</i>  <sup>2</sup><i>Moscow State University named M.V. Lomonosov, Moscow, Russian Federation</i>  <sup>3</sup><i>L.V.Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i></p>	<p><b>PD-3</b></p>

<p style="text-align: center;"><b>TEMPERATURE DEPENDENCE OF FERROMAGNETIC RESONANCE IN Co/FeMn AND Co/IrMn EXCHANGE BIASED STRUCTURES</b>  <b>Chechenin N.G.<sup>1,2*</sup>, Ezhov A.A.<sup>2</sup>, Gerasimenko A.V.<sup>3</sup> and <u>Dzhun I.O.</u><sup>1</sup></b>  <sup>1</sup><i>Skobeltsyn Institute of Nuclear Physics of Lomonosov Moscow State University, Moscow, Russian Federation</i>  <sup>2</sup><i>Lomonosov Moscow State University, Moscow, Russian Federation</i>  <sup>3</sup><i>Institute of Chemistry FEB RAS, Russian Federation</i></p>	<b>PD-4</b>
<p style="text-align: center;"><b>FORC ANALYSIS OF INTERPARTICLE INTERACTIONS IN BIOMINERALIZED MAGNETIC NANOCOMPOSITES</b>  <b>Semenov S. V. <sup>1</sup>, Ikkert O. P.<sup>2</sup>, Balaev D. A.<sup>1</sup>, Karnachuk O. V.<sup>2</sup>, <u>Knyazev Yu.V.</u><sup>1,2*</sup></b>  <sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Tomsk State University, Tomsk, Russian Federation</i></p>	<b>PD-5</b>
<p style="text-align: center;"><b>FIELD-INDUCED TRANSITION TO A NONCOLLINEAR STATE IN FERRIMAGNETIC Gd-Co FILMS OF DIFFERENT THICKNESS</b>  <b><u>Rusalina A.S.</u><sup>1*</sup>, Lepalovskij V.N.<sup>1</sup>, Stepanova E.A.<sup>1</sup>, Kurlyandskaya G.V.<sup>1</sup>, Vas'kovskiy V.O.<sup>1,2</sup>, Svalov A.V.<sup>1</sup></b>  <sup>1</sup><i>Ural Federal University, Ekaterinburg, Russian Federation</i>  <sup>2</sup><i>Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i></p>	<b>PD-6</b>
<p style="text-align: center;"><b>MAGNETIC PROPERTIES AND ANISOTROPY OF MAGNETOCALORIC EFFECT IN THE Mn<sub>5</sub>Ge<sub>3</sub> THIN FILM GROWN ON Si(111)</b>  <b>Tarasov A.S.<sup>1,2</sup>, Rautskii M.V.<sup>1</sup>, Lukyanenko A.V.<sup>1</sup> and <u>Sobolev I.A.</u><sup>1,2*</sup></b>  <sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i></p>	<b>PD-7</b>
<p style="text-align: center;"><b>FeTiB NANOCRYSTALLINE FILMS: STATIC AND MICROWAVE MAGNETIC PROPERTIES</b>  <b>Sheftel E.N.<sup>1</sup>, <u>Harin E.V.</u><sup>1*</sup>, Bobrovskii S.Yu.<sup>2</sup>, Rozanov K.N.<sup>2</sup>, Tedzhetov V.A.<sup>1</sup>, Bannykh I.O.<sup>1</sup> and Kiryukhantsev-Korneev Ph.V.<sup>3</sup></b>  <sup>1</sup><i>Baikov Institute of Metallurgy and Materials Science RAS, Moscow, Russian Federation</i>  <sup>2</sup><i>Institute for Theoretical and Applied Electromagnetics RAS, Moscow, Russian Federation</i>  <sup>3</sup><i>National University of Science &amp; Technology "MISIS", Moscow, Russian Federation</i></p>	<b>PD-8</b>
<p style="text-align: center;"><b>STT-MRAM IN CROSSBAR ARCHITECTURE FOR NEUROMORPHIC COMPUTING</b>  <b><u>Cherkasov D.A.</u><sup>1,2*</sup>, Kiseleva K.V.<sup>3,4</sup>, Kichin G.A.<sup>3</sup>, Zvezdin K.A.<sup>3,5</sup></b>  <sup>1</sup><i>Moscow Institute of Physics and Technology, Dolgoprudny, Russian Federation</i>  <sup>2</sup><i>Russian Quantum Center, Moscow, Russian Federation</i>  <sup>3</sup><i>New Spintronic Technologies LLC, Russian Federation Quantum Center, Moscow, Russian Federation</i>  <sup>4</sup><i>Skolkovo Institute of Science and Technology (Skoltech), Moscow, Russian Federation</i>  <sup>5</sup><i>Prokhorov General Physics Institute of the Russian Academy of Science, Moscow, Russian Federation</i></p>	<b>PD-9</b>
<p style="text-align: center;"><b>SPIN WAVE PROPAGATION IN AN ARRAY OF LATERALLY AND VERTICALLY COUPLED YIG MICROWAVEGUIDES AT VARIATIONS OF THE MAGNETIZATION ANGLE</b>  <b><u>Khutieva A.B.*</u>, <u>Sheshukova S.E.</u>, Beginin E.N. and Sadovnikov A.V.</b>  <i>Saratov State University, Saratov, Russian Federation</i></p>	<b>PD-10</b>
<p style="text-align: center;"><b>INFLUENCE OF MAGNETIC FIELDS ON THE REFLECTION OF MICROWAVE WAVES FROM THE STRUCTURES Fe<sub>3</sub>O<sub>4</sub>/CoO AND Fe<sub>2</sub>O<sub>3</sub></b>  <b>Antonets I.V., Kotov L.N.</b>  <i>Syktvykar State University named Pitirim Sorokin, Syktvykar, Russian Federation</i></p>	<b>PD-11</b>



<p style="text-align: center;"><b>MAGNETIC HYSTERESIS IN NANO-DOTS OF VARIOUS SHAPES: NUMERICAL STUDY</b></p> <p style="text-align: center;"><b>Mokhov A.A.<sup>1</sup>, Komogortsev S.V.<sup>1,2</sup>, Felk V.A.<sup>2</sup></b>  <sup>1</sup><i>Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russian Federation</i></p>	<b>PD-12</b>
<p style="text-align: center;"><b>MAGNETIC 1/f NOISE AS A CONSEQUENCE OF A SOLUTION OF STOCHASTIC DIFFERENTIAL EQUATION</b></p> <p style="text-align: center;"><b><u>Natekin L.G.</u><sup>1,2</sup>, Kiseleva K.V.<sup>1,3</sup>, Kichin G.A.<sup>1</sup>, Skirdkov P.N.<sup>1,4</sup> and Zvezdin K.A.<sup>1,4</sup></b>  <sup>1</sup><i>New Spintronic Technologies LLC, Russian Federation Quantum Center, Skolkovo, Russian Federation</i>  <sup>2</sup><i>Moscow Institute of Physics and Technology, Dolgoprudny, Russian Federation</i>  <sup>3</sup><i>Skolkovo Institute of Science and Technology (Skoltech), Skolkovo, Russian Federation</i>  <sup>4</sup><i>Prokhorov General Physics Institute RAS, Moscow, Russian Federation</i></p>	<b>PD-13</b>
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<p style="text-align: center;"><b>EFFECT OF SOLVENT COMPONENT ON THE GROWTH OF TRIGONAL CRYSTALS WITH THE HUNTITE STRUCTURE</b></p> <p style="text-align: center;"><b><u>Gudim I.A.</u><sup>1*</sup>, Eremin E.V.<sup>1,2</sup> and Titova V.R.<sup>1</sup></b>  <sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i></p>	<b>PE-1</b>
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<p style="text-align: center;"><b>РОЛЬ ДОМЕННЫХ ГРАНИЦ В ФАЗОВЫХ ПЕРЕХОДАХ ПЛЕНКИ ФЕРРИТА-ГРАНАТА</b></p> <p style="text-align: center;"><b>Сирюк Ю.А., Безус А.В., Бондарь Е.Д., Капшуков Р.С., Кононенко В.В.</b>  <i>Донецкий государственный университет, Донецк, Россия</i></p>	<b>PF-2</b>
<b><u>PG. MAGNETOOPTICAL PHENOMENA</u></b>	
<p style="text-align: center;"><b>ELECTRONIC STRUCTURE ANALYSIS OF (Cr<sub>0.5</sub>Mn<sub>0.5</sub>)<sub>2</sub>GaC EPITAXIAL MAX- PHASE SURFACE BY SPECTRAL ELLIPSOMETRY</b></p> <p style="text-align: center;"><b><u>Lyaschenko S.A.</u><sup>1*</sup>, Zhandun V.S.<sup>1</sup>, Andryushchenko T.A.<sup>1</sup>, Shevtsov D.V.<sup>1</sup>, Maximova O.A.<sup>1,2</sup>, Varnakov S.N.<sup>1</sup>, Ovchinnikov S.G.<sup>1,2</sup></b>  <sup>1</sup><i>Kirensky Institute of Physics of SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i></p>	<b>PG-1</b>

<p style="text-align: center;"><b>TOPOLOGICAL FARADAY EFFECT FOR OPTICAL VORTICES IN A MAGNETIC FILM</b></p> <p><b><u>A.Yu. Fedorov</u><sup>2,3</sup>, M.A. Yavorsky<sup>1</sup>, M.A. Kozhaev<sup>1,2</sup>, D.V. Vikulin<sup>1</sup>, E.V. Barshak<sup>1</sup>, V.N. Bershansky<sup>1</sup>, P.O. Kapralov<sup>2</sup>, and V.I. Belotelov<sup>1,2,4</sup></b></p> <p><sup>1</sup><i>V.I. Vernadsky Crimean Federal University, Simferopol, Russian Federation</i>  <sup>2</sup><i>Russian Quantum Center, Skolkovo, Russian Federation</i>  <sup>3</sup><i>Moscow Institute of Physics and Technology, Dolgoprudnyi, Russian Federation</i>  <sup>4</sup><i>Lomonosov Moscow State University, Moscow, Russian Federation</i></p>	<b>PG-2</b>
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<p style="text-align: center;"><b>BIOSYNTHESIS OF MAGNETIC NANOCOMPOSITES USING SULFATE-REDUCING BACTERIA</b></p> <p><b>Semenov S.V.<sup>1</sup>, Knyazev Yu.V.<sup>1,2</sup>, Balaev D.A.<sup>1</sup>, Karnachuk O.V.<sup>2</sup>, <u>Ikkert O.P.</u><sup>2*</sup></b></p> <p><sup>1</sup><i>Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Tomsk State University, Tomsk, Russian Federation</i></p>	<b>PH-1</b>
<p style="text-align: center;"><b>THE TARGETED PHARMACEUTICAL COMPOSITION DESIGN FOR MAGNETIC RESONANCE HYPERTHERMIA OF TUMOR CELLS</b></p> <p><b><u>Pyankov, V.F.</u><sup>1*</sup>, Stolyar S.V.<sup>1,2</sup>, Kruykova O.V.<sup>1</sup>, Li O.A.<sup>1</sup> Nikolaeva E.D.<sup>1,3</sup></b></p> <p><sup>1</sup><i>FRC KSC SB RAS, Krasnoyarsk, Russian Federation</i>  <sup>2</sup><i>Siberian Federal University, Krasnoyarsk, Russian Federation</i>  <sup>3</sup><i>Professor V.F. Voino-Yasenetsky Krasnoyarsk State Medical University, Krasnoyarsk, Russian Federation</i></p>	<b>PH-2</b>
<b><u>PI. TRANSPORT PHENOMENA, GIANT MAGNETIC RESISTANCE, GIANT MAGNETIC IMPEDANCE</u></b>	
<p style="text-align: center;"><b>MAGNETIC, TRANSPORT PROPERTIES AND STRUCTURE OF FeRhGa<sub>1-x</sub>As<sub>x</sub> ALLOYS: AB INITIO STUDY</b></p> <p><b><u>Pavluhina O.O.</u><sup>*</sup>, Buchelnikov V.D., Sokolovskiy V.V.</b></p> <p><i>Chelyabinsk State University, Chelyabinsk, Russian Federation</i></p>	<b>PI-1</b>
<p style="text-align: center;"><b>ELECTRICAL RESISTIVITY AND OPTICAL PROPERTIES OF ANTIFERROMAGNETIC TOPOLOGICAL INSULATOR MnBi<sub>2</sub>Te<sub>4</sub></b></p> <p><b><u>Perevalova A.N.</u><sup>1*</sup>, Fominykh B.M.<sup>1,2</sup>, Naumov S.V.<sup>1</sup>, Shreder E.I.<sup>1</sup>, Marchenkova E.B.<sup>1</sup> and Marchenkov V.V.<sup>1,2</sup></b></p> <p><sup>1</sup><i>Mikheev Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation</i>  <sup>2</sup><i>Ural Federal University, Ekaterinburg, Russian Federation</i></p>	<b>PI-2</b>
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<p style="text-align: center;"><b>APPLICATIONS OF MAGNETIC STRUCTURES IN MICROELECTRONIC SENSOR DEVICES</b></p> <p><b>N. Djuzhev, <u>M. Chinenkov</u><sup>*</sup>, G. Oreshkin, N. Filippov</b></p> <p><i>National Research University of Electronic Technology (MIET), Moscow, Zelenograd, Russian Federation</i></p>	<b>PI-4</b>

<p><b>COMPUTER SIMULATION OF THE MAGNETO-IMPEDANCE EFFECT IN RIBBONS WITH AN INHOMOGENEOUS MAGNETIC STRUCTURE</b>  <u>Bukreev D.A.*</u>, Derevyanko M.S., Moiseev A.A., Semirov A.V.  <i>Irkutsk State University, Irkutsk, Russian Federation</i></p>	PI-5
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<p><b>ПОВЕРХНОСТНАЯ МОДА В СПЕКТРЕ СПИН-ВОЛНОВОГО РЕЗОНАНСА, РОЛЬ И ЗНАЧЕНИЕ</b>  V.V. Sharovalov<sup>1</sup>, В.А. Шаповалов<sup>2</sup>, Т.В. Дрокина<sup>3</sup>, А.М. Воротынов<sup>3</sup>, В.И. Вальков<sup>2</sup>  <sup>1</sup>Организация "Математика для Америки", Нью-Йорк, США  <sup>2</sup>Донецкий физико-технический институт им. А.А. Галкина, Донецк, Россия  <sup>3</sup>Институт физики им. Л.В. Киренского РАН, Красноярск, Россия</p>	PJ-3
<p><b>МАГНИТОСТРИКЦИЯ В КОМПОЗИТНОМ СОЕДИНЕНИИ Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub>/BiFeO<sub>3</sub></b>  Удод Л.В.<sup>1,2*</sup>, Аплеснин С.С.<sup>1,2</sup>, Ситников М.Н.<sup>2</sup>, Романова О.Б.<sup>1</sup>  <sup>1</sup>Институт физики имени Л. В. Киренского СО РАН Россия  <sup>2</sup>Сибирский государственный университет науки и технологий имени академика М. Ф. Решетнева, Россия</p>	PJ-4
<p><b>ВЛИЯНИЕ ТЕМПЕРАТУРЫ НА ДИНАМИЧЕСКИЕ И СТАТИЧЕСКИЕ СВОЙСТВА НЕГЕЙЗЕНБЕРГОВСКИХ МАГНЕТИКОВ</b>  Е.А.Ярыгина, В.В.Козачек, О.А.Космачев, <u>Ю.А.Фридман</u>  <i>Крымский федеральный университет им. В.И.Вернадского, Симферополь, Россия</i></p>	PJ-5

## **PK. PRINCIPLES AND TECHNIQUES OF MEASUREMENT OF MAGNETIC PARAMETERS**

### **NEUTRON DIFFRACTION STUDIES OF $\text{La}_{1-x}\text{Y}_x\text{Mn}_2\text{Si}_2$ COMPOUND: EVIDENCE OF DOMINANT ANTIFERROMAGNETIC COMPONENTS WITHIN THE Mn PLANES**

**Alsafi H.M.<sup>1\*</sup>, Gerasimov E. G.<sup>1,2</sup> and Pirogov A.N.<sup>1,2</sup>**

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<sup>2</sup>*Institute of Metal Physics UB RAS, Ekaterinburg, Russian Federation*

**PK-1**

### **THE MODERNIZATION OF THE SE/X-2544 EPR SPECTROMETER FOR THE PURPOSE OF STUDYING HYPERTHERMIA**

**Velikanov D.A.<sup>1,2\*</sup>, Stolyar S.V.<sup>1,2</sup>**

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<sup>2</sup>*Krasnoyarsk Scientific Center SB RAS, Krasnoyarsk, Russian Federation*

**PK-2**

### **ADDITIONAL MAGNETIC METHODS FOR EVALUATION OF THE STRUCTURE AND DISPERSITY OF BATCHES OF MAGNETIC PARTICLES**

**Mikhnevich E.A.<sup>\*</sup>, Melnikov G.Yu., Svalov A.V. and Kurlyandskaya G.V.**

*Ural Federal University, Yekaterinburg, Russian Federation*

**PK-3**

### **CREATING OF A MEASURING SYSTEM FOR DETERMINING THE MAGNETIC PROPERTIES OF SAMPLES OF SOFT MAGNETIC MATERIALS**

**Stepanova E.A.<sup>1\*</sup>, Korniyaseva M.<sup>1</sup>, Vas'kovskiy V.O.<sup>1,2</sup> and Volegov A.S.<sup>1,2</sup>**

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**PK-4**

## **PL. MODERN TECHNOLOGIES FOR RECEIPT OF MATERIALS**

### **GROWING SINGLE CRYSTALS OF $\text{NdSc}_3(\text{BO}_3)_4$ RARE-EARTH OXYBORATES FROM MELT – SOLUTION WITH HUNTITE STRUCTURE**

**Titova V.R.<sup>1,2</sup>**

<sup>1</sup>*L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation,*

<sup>2</sup>*Siberian Federal University Institute of Physics and Radio Electronics, Krasnoyarsk,  
Russian Federation*

**PL-1**

### **MICROSTRUCTURE AND MAGNETIC PROPERTIES OF $\text{FeCoNiP-Me}$ (Me = Zn, Zr, W) HIGH ENTROPY ALLOYS PRODUCED BY ELECTROLESS DEPOSITION**

**Chekanova L.A.<sup>1</sup>, Denisova E.A.<sup>1,2\*</sup>, Komogortsev S.V.<sup>1</sup>, Vazhenina I.G.<sup>1,2</sup>, Iskhakov  
R.S.<sup>1</sup>, Bondarenko G.N.<sup>1</sup>, Koh D.<sup>1</sup>, Velikanov D.A.<sup>1</sup>, Nemtsev I.V.<sup>1,2,3</sup>, and Eremin L.A.<sup>1</sup>**

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**PL-2**

### **EFFECT OF Ni IMPURITY ON THE SYNTHESIS CONDITION AND MAGNETIC PROPERTIES OF $\text{MnGeO}_3$ SINGLE CRYSTALS**

**Mikhashenok N. V.**

*Federal Research Center KSC SB RAS, Krasnoyarsk, Russian Federation*

**PL-3**

### September 11 (Monday)

Registration of BICMM-2023 participants ( <i>Irkutsk, Nizhnyaya Naberezhnaya st., 6</i> )	9 <sup>00</sup> -13 <sup>00</sup>
Transfer to Baikalsk ( <i>Nizhnyaya Naberezhnaya st., 6, Irkutsk</i> )	13 <sup>30</sup>
Conference opening ceremony, Welcome Party ( <i>Klyukva Restaurant, Mikrorayon Krasnyy klyuch, 95</i> )	18 <sup>00</sup>

### September 12 (Tuesday)

Plenary Talks ( <i>Vysota 900</i> )	10 <sup>00</sup> -11 <sup>45</sup>
Coffee break	11 <sup>45</sup> -12 <sup>00</sup>
Oral Presentations ( <i>Vysota 900</i> )	12 <sup>00</sup> -13 <sup>15</sup>
Lunch	13 <sup>15</sup> -15 <sup>00</sup>
Oral Presentations	
Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor ( <i>Sections: A, B, C, E, F, G, I, K, L, M</i> )	15 <sup>00</sup> -16 <sup>30</sup>
Mikrorayon Krasnyy klyuch, 91L Bldg.1. Second floor ( <i>Sections: D, H and J</i> )	15 <sup>00</sup> -16 <sup>30</sup>
Coffee break	16 <sup>30</sup> -16 <sup>45</sup>
Poster Presentation ( <i>All sections</i> ) ( <i>Mikrorayon Krasnyy klyuch., 91L Bldg.1</i> )	16 <sup>45</sup> -18 <sup>15</sup>

### September 13 (Wednesday)

Oral Presentations	
Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor ( <i>Sections: A, B, C, E, F, G, I, K, L, M</i> )	09 <sup>00</sup> -10 <sup>30</sup>
Mikrorayon Krasnyy klyuch, 91L Bldg.1. Second floor ( <i>Sections: D, H and J</i> )	09 <sup>00</sup> -10 <sup>30</sup>
Coffee break	10 <sup>30</sup> -10 <sup>45</sup>
Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor ( <i>Sections: A, B, C, E, F, G, I, K, L, M</i> )	10 <sup>45</sup> -12 <sup>15</sup>
Mikrorayon Krasnyy klyuch, 91L Bldg.1. Second floor ( <i>Sections: D, H and J</i> )	10 <sup>45</sup> -12 <sup>15</sup>
Lunch	12 <sup>00</sup>
Excursion program ( <i>Mikrorayon Krasnyy klyuch, 91L Bldg.2, parking</i> )	14 <sup>00</sup> -19 <sup>00</sup>
Conference dinner ( <i>Klyukva Restaurant, Mikrorayon Krasnyy klyuch, 95</i> )	19 <sup>00</sup>

### September 14 (Thursday)

Excursion to Circum-Baikal Railway (for registered) ( <i>Mikrorayon Krasnyy klyuch, 91L Bldg.2</i> )	09 <sup>00</sup>
Oral Presentations	
Mikrorayon Krasnyy klyuch, 91L Bldg.1 First floor ( <i>Sections: A, B, C, E, F, G, I, K, L, M</i> )	09 <sup>00</sup> -10 <sup>30</sup>
Mikrorayon Krasnyy klyuch, 91L Bldg.1. Second floor ( <i>Sections: D, H and J</i> )	09 <sup>00</sup> -10 <sup>30</sup>
Concluding Remarks and Closing	10 <sup>30</sup> -10 <sup>45</sup>
Lunch	10 <sup>45</sup> -12 <sup>45</sup>
Departure to Irkutsk ( <i>Mikrorayon Krasnyy klyuch, 91L Bldg.2, parking</i> )	13 <sup>00</sup>