

*The conference is dedicated to  
the 150th Anniversary of V. I. Vernadsky,  
the 95th Anniversary of Taurida National V. I. Vernadsky University*

**International Conference**  
***“Functional Materials-2013”***  
**ICFM’2013**

***PROGRAM***

**September 29 – October 5, 2013**  
**Ukraine Crimea, Partenit, Yalta**

## International Conference “*Functional Materials*”

### Organizers:

Ministry of Education and Science of Ukraine

State Fund for Fundamental Researches of Ukraine

Taurida National V.I. Vernadsky University

Institute of Magnetism of NASU&MESU

Donetsk Institute for Physics and Engineering of NASU

Institute for Scintillation Materials of NASU

Institute for Single Crystals of NASU

International Associated Laboratory “LICS/LEMAC”

UNESCO Chair “Renewable Energy and Sustainable Development”

### **with cooperation**

“Zdravnitsy Yuga”

TA “Gin-Service”

MRC “Zhemchuzhina”

**ICFM'2013.** The conference will address aspects relevant to the physics, technology and applications of new materials and structures with the determined functional properties

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### Address of the Organizing Committee

ICFM'2013

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<http://www.icfm.crimea.edu/>

## **Information for participants**

### LOCATION

The conference will be held in Yalta (settlement Gaspra). Accommodation will be available at the Medical Rehabilitation Center "Zhemchuzhina". MRC "Zhemchuzhina" is located in 11 km from Yalta on the territory of Ai-Todor Cape. An unique architecture palace-castle "Swallow's Nest" is located in the park of the Center.

CONFERENCE SESSIONS will be held in the conference hall of the Medical Rehabilitation Center. Information about possible amendments in the Conference Program will be available through the announcements at the Organizing Committee information desk. For more detailed info please contact the Local Organizing Committee.

### PRESENTATIONS

Lecture - 30 min., Oral -15 min., Poster 0.72x1.20 m

### LANGUAGE

English

### CONFERENCE PROCEEDINGS

Participants are solicited to submit full papers of their accepted contribution to publish in the journals "Functional Materials" (<http://www.isc.kharkov.com/journal/>) and Scientific Notes of Taurida National V.I. Vernadsky University (<http://sn-physmat.crimea.edu/>) as regular papers. The Program Committee will execute the preliminary selection of papers

### TRANSPORT

The main net of public transport is available in Simferopol. The railway station, the airport is also concentrated there. You can use a bus from Simferopol railway station to Yalta. Buses Simeiz-Yalta or Yalta-Alupka will take you from Yalta to "Swallow's Nest" or MRC "Zhemchuzhina".

### CULTURE PROGRAM

Monday, September 30, at 20.00 – Welcome party

Tuesday, October 1, at 20.00 – Concert

Wednesday, October 2, at 14.00 – Excursions; Crimean Wine Tasting

Thursday, October 3, at 20.00 – Concert

Friday, October 4, at 20.00 – Conference Dinner

For additional information about excursions (Crimea is known by its history, landscapes, etc.) please contact the Local Organizing Committee

### TIME-TABLE OF THE DINNING-HALL:

8.00-9.00 – breakfast

14.00-15.00 – dinner

19.00-20.00 – supper

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**The Note:** A, B, C – Oral Sessions; P, P1, P2 Q, Q1, Q2 – Poster Sessions

## Schedule of Conference

Date	Time		Oral presentations (Hall)	Poster presentations (Foyer)	
Monday, September 30 (Day A)	9.30-11.15	Session AA	Conference opening. Plenary Session I		
	11.30-13.00	Session AB	Plenary Session II		
	15.00-19.00	Session AC	Section 1. Fundamental Physics of Functional Materials	Section 10. Materials for Medical Applications. Biosensors	
	15.00-19.00	Session AP1			Section 11. "Green" Materials & Technologies for Sustainable Development
		Session AP2			
	20.00-21.30	Culture Program	<b>Welcome party</b>		
Tuesday, October 1 (Day B)	9.00-13.15	Session BA	Section 7. Magnetic Dynamics. Meta & Microwave Materials		
	9.00-14.00	Session BP1		Section 6. Magnetoelastic & Adaptive Materials	
		Session BP2			Section 1. Fundamental Physics of Functional Materials I
	15.00-19.00	Session BB	Section 3. Materials for Spintronics. Thin Films & Multilayers		
	15.00-19.00	Session BQ		Section 1. Fundamental Physics of Functional Materials II	
	20.00-21.30	Culture Program	<b>Concert</b>		
Wednesday, October 2 (Day C)	9.00-10.00	Session CA	Plenary Session III		
	10.00-13.00	Session CB	Section 6. Magnetoelastic & Adaptive Materials		
	9.00-13.00	Session CP1			Section 7. Magnetic Dynamics. Meta & Microwave Materials
		Session CP2			Section 3. Materials for Spintronics. Thin Films & Multilayers
	14.00-20.00	Culture Program	<b>Excursions. Crimean Wine Tasting</b>		

Date	Time		Oral presentations (Hall)	Poster presentations (Foyer)
Thursday, October 3 (Day D)	9.00-13.00	Session DA	Section 4. Plasmonics & Photonics. Electro & Magneto-optic Materials	
	9.00-13.00	Session DB (Aud.5.1)	Section 8. Luminescent & Radiation Sensing Materials	
	9.00-14.00	Session DP		Section 9. Nanophysics & Nanotechnologies for Functional Materials
	15.00-19.00	Session DC	Section 9. Nanophysics & Nanotechnologies for Functional Materials	
	15.00-19.00	Session DQ1		Section 4. Plasmonics & Photonics. Electro & Magneto-optic Materials
		Session DQ2		Section 2. Hard & Soft Magnetic Materials I
	20.00-21.30	Culture program	<b>Concert</b>	
Friday, October 4 (Day E)	9.00-11.00	Session EA	Section 5. Piezo & Magnetoelectric Materials. Multiferroics	
	11.15-13.30	Session EB	Section 2. Hard & Soft Magnetic Materials	
	9.00-14.00	Session EP1		Section 8. Luminescent & Radiation Sensing Materials
		Session EP2		Section 12. New Techniques & Equipment for Materials Research
	15.00-17.45	Session EC	Section 10. Materials for Medical Applications. Biosensors	
	15.00-17.45	Session EQ1		Section 2. Hard and Soft Magnetic Materials II
	15.00-17.45	Session EQ2		Section 5. Piezo & Magnetoelectric Materials. Multiferroics
	18.00-18.30	<b>Closing</b>		
	20.00-23.00	<b>Conference dinner</b>		

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## Monday, September 30

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**9.30-11.15****Session AA.****Conference opening. Plenary Session I****Chairmen:** Gorobets Yu., Berzhansky V., Zvezdin A.

**AA-6L/1 A new function for magnetic shape memory alloy Ni-Mn-Ga: Shrinkages formed from local magnetic fields (*Invited*)**

**Ullakko K.**<sup>1</sup>, **Smith A.**<sup>1</sup>, **Liukkonen M.**<sup>2</sup>, and **Hiltunen Y.**<sup>2</sup>

<sup>1</sup>*Lappeenranta University of Technology, Savonlinna, Finland*

<sup>2</sup>*Eastern Finland University, Kuopio, Finland*

**AA-1L/2 Electronic and spin transitions in iron oxides under high pressure and metallization of the Earth's low mantle (*Invited*)**

**Ovchinnikov S.G.**<sup>1,2</sup>

<sup>1</sup>*L.V. Kirensky Institute of Physics SBRAS, Krasnoyarsk, Russia*

<sup>2</sup>*Siberian Federal University, Krasnoyarsk, Russia*

**11.30-13.00****Session AB.****Plenary Session II****Chairmen:** Ovchinnikov S., Lemmens P.

**AB-1L/1 Quantum well states on spin orbit dominated materials: Comparing topological insulators with Giant Rashba material (*Invited*)**

**Lemmens P.**<sup>1</sup>, **Gnezdilov V.**<sup>2</sup>, **Wulferding D.**<sup>1</sup>, **Recher P.**<sup>3</sup>, **Berger H.**<sup>4</sup>, **Ando Y.**<sup>5</sup>, **Möller A.**<sup>6</sup>, **Sankar R.**<sup>7</sup>, and **Chou F.-C.**<sup>7</sup>

<sup>1</sup>*IPKM, TU-BS, Braunschweig, Germany*

<sup>2</sup>*ILTPE, Kharkov, Ukraine*

<sup>3</sup>*IMAPH, TU-BS, Braunschweig, Germany*

<sup>4</sup>*EPFL, Lausanne, Switzerland*

<sup>5</sup>*ISIR, Osaka, Japan*

<sup>6</sup>*Dept. of Chemistry, Univ. Houston, USA*

<sup>7</sup>*CCMS, National Taiwan Univ., Taipei, Taiwan*

**AB-4L/2 Nonlinear Electro-Optical Materials and Structures (*Invited*)**

**Mishina E.D.**, **Sigov A.S.**

*Moscow State Technical University of Radioengineering, Electronics and Automation, Moscow, Russia*

**AB-4L/3 Ultrafast acousto-magneto-plasmonics (*Invited*)**

**Temnov V.V.**

*Institut des Molécules Molécules et Matériaux du Mans, Université du Maine, France*

**15.00-19.00****Oral Session AC.****Section 1. Fundamental Physics of Functional Materials**

**Chairmen:** Krivoruchko V., Pashkevich Yu.

- AC-1L/1 Unconventional superconductivity of  $\text{MgB}_2:(\text{La,Sr})\text{MnO}$  nanocomposite (Invited)**  
Krivoruchko V.N., Tarenkov V.Yu., D'yachenko A.I.  
*Donetsk Physics & Technology Institute NAS of Ukraine, Donetsk, Ukraine*
- AC-1L/2 Iron spin state transformation and its effect on properties of iron HTSC (Invited)**  
 Pashkevich Yu.<sup>1</sup>, Gnezdilov V.<sup>2</sup>, Gusev A.<sup>1</sup>, Shevtsova T.<sup>1</sup>, Lamonova K.<sup>1</sup>, Lemmens P.<sup>3</sup>, Wulferding D.<sup>3</sup>, Gnatchenko S.<sup>2</sup>, Pomjakushina E.<sup>4</sup>, Conder K.<sup>4</sup>  
<sup>1</sup>*A.A. Galkin Donetsk Phystech, NASU, Donetsk, Ukraine*  
<sup>2</sup>*B.I. Verkin Inst. for Low Temp. Physics and Eng., NASU, Kharkov, Ukraine*  
<sup>3</sup>*Institute for Condensed Matter Physics, TU Braunschweig, Germany*  
<sup>4</sup>*Laboratory for Developments and Methods, PSI, Villigen, Switzerland*
- AC-1L/3 Oxide-Halide Intergrowth Compounds: Promising Candidates for Low-Dimensional  $S = S$  Heisenberg Systems? (Invited)**  
Möller A.<sup>1,2</sup>, Sun K.<sup>1,2</sup>, Tapp J.<sup>1,2</sup>, and Litvinchuk A.P.<sup>2,3</sup>  
<sup>1</sup>*Department of Chemistry, University of Houston, Houston, USA*  
<sup>2</sup>*Texas Center for Superconductivity, University of Houston, Houston, USA*  
<sup>3</sup>*Department of Physics, University of Houston, Houston, USA*
- AC-1L/4 Crossing resonance of wave fields in media with the inhomogeneous coupling parameter (Invited)**  
Ignatchenko V.A.<sup>1</sup> and Polukhin D.S.<sup>1,2</sup>  
<sup>1</sup>*L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia*  
<sup>2</sup>*Siberian Federal University, Krasnoyarsk, Russia*
- AC-10/1 The First Principle Description of Noncollinear Magnetic Phases in Manganites**  
 Dunaevsky S.M.  
*B. Konstantinov Petersburg Nuclear Physics Institute, Orlova Roshcha, Gatchina, Russia*
- AC-10/2 Intrinsic exchange coupling in  $\text{Nd}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$  manganite**  
Fertman E.L.<sup>1</sup>, Dolya S.N.<sup>1</sup>, Desnenko V.A.<sup>1</sup>, Kajňaková M.<sup>2</sup>, Feher A.<sup>2</sup>  
<sup>1</sup>*B. Verkin Inst. for Low Temp. Phys. and Eng. NASU, Kharkov, Ukraine*  
<sup>2</sup>*Institute of Physics, P. J. Šafárik University in Košice, Košice, Slovakia*
- AC-10/3 Peculiarity of properties of B-site substituted lanthanum manganites**  
 Ulyanov A.N.  
*Donetsk Physico-Technical Institute named after A.A. Galkin, National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- AC-10/4 Spin glass and ferromagnetic ordering in  $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$  single crystals**  
Khan N. and Mandal P.  
*Saha Institute of Nuclear Physics, Kolkata, India*

- AC-10/5 Clustered state above  $T_C$  in metallic single crystal  $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$**   
Lazuta A.V.<sup>1</sup>, Ryzhov V.A.<sup>1</sup>, Khavronin V.P.<sup>1</sup>, Mukovskii Ya.M.<sup>2</sup>  
<sup>1</sup>*Petersburg Nuclear Physics Institute, NRC Kurchatov Institute, Gatchina, Russia*  
<sup>2</sup>*National Research and Technology University "MISiS", Moscow, Russia*
- AC-10/6 The spin blockade and infraslow relaxation of conductivity in  $\text{GdBaCo}_2\text{O}_{5.5}$**   
Tarasenko T.N., Mazur A.S., Doroshev V.D., Borodin V.A.,  
 Pashkevich Yu.G., Kamenev V.I.  
*Donetsk Institute for Physics and Engineering named after O.O. Galkin of NASU, Donetsk, Ukraine*
- AC-10/7 The instability of the orbital states and the inversion of  $T_{2g}$  and  $E_g$  levels of  $3d^1$  metals in the octahedral complex**  
Babkin R.<sup>1</sup>, Lamonova K.<sup>1</sup>, Orel S.<sup>1</sup>, Lemmens P.<sup>2</sup>, Pashkevich Yu.<sup>1</sup>  
<sup>1</sup>*O.O. Galkin Donetsk Institute for Physics and Engineering, National Academy of Sciences of Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Institute for Condensed Matter Physics, TU Braunschweig, Germany*

**15.00-19.00****Poster Session AP1.****Section 10. Materials for Medical Applications. Biosensors**

**Chairmen:** Gorobets O., Sergeyeva T.

- AP1-10P/1 Synthesis and luminescence properties of ultrafine  $\text{Yb}^{3+}$ - $\text{Er}^{3+}$  and  $\text{Yb}^{3+}$ - $\text{Tm}^{3+}$  doped  $\text{La}_3\text{Gd}_{11}\text{B}_6\text{Ge}_2\text{O}_{34}$  and  $\text{Gd}_2\text{GeMoO}_8$  particles for cancer diagnostics**  
Krut'ko V.A.<sup>1</sup>, Komova M.G.<sup>1</sup>, Ryabova A.V.<sup>2</sup>, Pominova D.V.<sup>2</sup>  
<sup>1</sup>*N.S. Kurnakov Institute of General and Inorganic Chemistry RAS, Moscow, Russia*  
<sup>2</sup>*A.M. Prokhorov General Physics Institute RAS, Moscow, Russia*
- AP1-10P/2 Optical sensor systems based on nanostructured polymeric membranes for selective recognition of small organic molecules**  
Sergeyeva T.A.<sup>1</sup>, Chelyadina D.S.<sup>1</sup>, Piletska O.V.<sup>2</sup>, Gorbach L.A.<sup>3</sup>,  
 Brovko O.O.<sup>3</sup>, El'skaya A.V.<sup>1</sup>  
<sup>1</sup>*Institute of Molecular Biology and Genetics, Kiev, Ukraine*  
<sup>2</sup>*Cranfield Health, Cranfield University, Bedfordshire, UK*  
<sup>3</sup>*Institute of Macromolecular Chemistry, Kiev, Ukraine*
- AP1-10P/3 Optimization of a biosensor system based on pH-sensitive field-effect transistors for simultaneous detection of creatinine and glucose**  
 Zinchenko O.A., Marchenko S.V., Sergeyeva T.A., Soldatkin A.P.  
*Institute of Molecular Biology and Genetics, NAS of Ukraine, Kyiv, Ukraine*
- AP1-10P/4 Development of biosensor system for simultaneous determination of urea and creatinine**  
Marchenko S.V., Soldatkin A.P.  
*Institute of Molecular Biology and Genetics, NAS of Ukraine, Kyiv, Ukraine*

- AP1-10P/5 Testing method of conductometric transducers for development of enzyme biosensors**  
Pyeshkova V.N.<sup>1</sup>, Dudchenko O.Y.<sup>1</sup>, Soldatkin O.O.<sup>1</sup>, Kasap B.O.<sup>2</sup>, Akata B.<sup>2</sup>, Dzyadevych S.V.<sup>1</sup>  
<sup>1</sup>*Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine, Laboratory of Biomolecular Electronics, Kyiv, Ukraine,*  
<sup>2</sup>*Middle East-Technical University, Micro and Nanotechnology Department, Ankara, Turkey*
- AP1-10P/6 Nanocomposite Amperometric Biosensor for Low Potential Choline Determination**  
Biloivan O.A.<sup>1</sup>, Garbuz V.V.<sup>2</sup>, Boychuk Y.V.<sup>1</sup>, Zhybak M.T.<sup>1</sup>, Vasil'ev O.O.<sup>3</sup>, Duda T.I.<sup>3</sup>, Muratov V.B.<sup>2</sup>, Pillai K.<sup>4</sup>, Singh D.<sup>4</sup>, Dempsey E.<sup>4</sup>, Korpan Y.I.<sup>1</sup>  
<sup>1</sup>*Institute of Molecular Biology and Genetics NANU, Kyiv, Ukraine*  
<sup>2</sup>*Frantsevich Institute for Problems of Materials Science NANU, Kyiv, Ukraine*  
<sup>3</sup>*National Technical University of Ukraine "KPI", Kyiv, Ukraine*  
<sup>4</sup>*Department of Science, Institute of Technology Tallaght, Dublin, Ireland*
- AP1-10P/7 Amperometric biosensor for lactate analysis in real samples**  
Shkotova L.V.<sup>1</sup>, Bohush A.V.<sup>2</sup>, Sergeyeva T.A.<sup>1</sup>, Dzyadevych S.V.<sup>1</sup>  
<sup>1</sup>*Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*National Taras Shevchenko University of Kyiv Educational and Scientific Centre «Institute of Biology», Kyiv, Ukraine*
- AP1-10P/8 Nanostructured high purity titanium for medical applications**  
Tikhonovsky M.A., Kutniy K.V., Khaimovich P.A., Kislyak I.F., Okovit V.S., Rudycheva T.Y.  
*National Science Center "Kharkov Institute of Physics and Technology", Kharkov, Ukraine*
- AP1-10P/9 Impact of the steel structure on the quality of surgical knives obtained by electrochemical formation**  
Aznabaev B.M.<sup>1</sup>, Safarov I.M.<sup>2</sup>, Mukhamadeev T.R.<sup>1</sup>, Sergeev S.N.<sup>2</sup>  
<sup>1</sup>*Bashkir State Medical University, Ufa, Russia*  
<sup>2</sup>*Institute for Metals Superplasticity Problems, Ufa, Russia*
- AP1-10P/10 Innovative application nanostructured stainless chromium steel for producing the surgical knives by electrochemical formation**  
Safarov I.M.<sup>1</sup>, Aznabaev B.M.<sup>2</sup>, Mukhamadeev T.R.<sup>2</sup>, Sergeev S.N.<sup>1</sup>  
<sup>1</sup>*Institute for Metals Superplasticity Problems, Ufa, Russia*  
<sup>2</sup>*Bashkir State Medical University, Ufa, Russia*
- AP1-10P/11 Fluorinated poly(urethane urea) as polymer stent coating: synthesis, properties and medical investigation**  
Shekera O.<sup>1</sup>, Muzhev V.<sup>1</sup>, Lazarenko O.<sup>2</sup>, Alexeeva T.<sup>3</sup>, Tkachenko I.<sup>1</sup>, Oshkaderov S.<sup>3</sup>, Shevchenko V.<sup>1</sup>  
<sup>1</sup>*Institute for Macromolecular Chemistry NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*Kyiv Medical for Post Graduate Education, Ukraine*  
<sup>3</sup>*G.V. Kurdyumov Institute for Metal Physics NAS of Ukraine, Kyiv, Ukraine*

- AP1-10P/12 Porous alumina films obtained by pulsed laser deposition for sensors applications**  
Ushenin Yu.V., Khristosenko R.V., Samoylov A.V., Kaganovich E.B., Manoilov E.G., Snopok B.A., Dorozinsky G.V., Maslov V.P.  
*V.Ye. Lashkaryov Institute of Semiconductor Physics of NASU, Kiev, Ukraine*
- AP1-10P/13 Measurements of the micro- and nanoparticles heat release in the alternating magnetic field**  
Elkhova T.M.<sup>1,2</sup>, Pyatakov A.P.<sup>1,2</sup>, Spichkin Y.I.<sup>2</sup>, Tishin A.M.<sup>1</sup>  
<sup>1</sup>*Lomonosov's MSU, Moscow, Russia*  
<sup>2</sup>*Pharmag, Troitsk, Russia*
- AP1-10P/14 Effect of sintering atmosphere on the phase composition of Na-substituted hydroxylapatite ceramics**  
Tkachenko M., Rovenska L., Zyman Z.  
*V.N. Karazin Kharkiv National University, Kharkiv, Ukraine*
- AP1-10P/15 Phototransformations in biological photoreceptor bacteriorhodopsin and its mutants for constructing nanoscaled functional macromolecular blocks**  
Savchuk A.<sup>1</sup>, Stepanchikov D.<sup>2</sup>, Burykin N.<sup>1</sup>, Korchemskaya E.<sup>1,3</sup>  
<sup>1</sup>*International Center "Institute of Applied Optics", NASU, Kiev, Ukraine*  
<sup>2</sup>*Zhytomir State University, Zhytomir, Ukraine*  
<sup>3</sup>*Institute of Physics, National Academy of Sciences, Kiev, Ukraine*
- AP1-10P/16 Peculiarity of phase separation in strontium doped indium oxide**  
Nikolaenko Yu.M.<sup>1</sup>, Medvedev Yu.V.<sup>1</sup>, Mezin N.I.<sup>1</sup>, Fasel C.<sup>2</sup>, Gurlo A.<sup>2</sup>, Bayer T.<sup>2</sup>, Klein A.<sup>2</sup>, Genenko Yu.A.<sup>2</sup>  
<sup>1</sup>*Donetsk Institute for Physics & Technology, NASU, Donetsk, Ukraine*  
<sup>2</sup>*Institute of Materials Science, Darmstadt University of Technology, Darmstadt, Germany*
- AP1-10P/17 Electronic structure and morphology of nanoscale powders of calcium hydroxyapatite**  
Karbivskyy V.L., Kurgan N.A.  
*G.V. Kurdyumov Institute for Metal Physics NAS of Ukraine, Kiev, Ukraine*
- AP1-10P/18 Biomineralization magnetic nanoparticles by human's bacterial symbionts**  
Gorobets S.V., Gorobets O.Yu., Chyzh Yu.M., Bytenko K.O.  
*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv*
- AP1-10P/19 MHD mixing of the electrolyte at the process of corrosion of a ferromagnetic ball**  
Gorobets O.Yu.<sup>1</sup>, Gorobets Yu.I.<sup>2</sup>, Rospotnyuk V.P.<sup>1</sup>  
<sup>1</sup>*NTUU "Kiev Polytechnic Institute", Kyiv, Ukraine*  
<sup>2</sup>*Institute of Magnetism NAS of Ukraine, Kyiv, Ukraine*
- AP1-10P/20 HGFM efficiency for the magnetically operated biosorbent separation**  
Gorobets S.V., Mykhailenko N.O.  
*National Technical University of Ukraine "KPI", Kyiv, Ukraine*

**AP1-10P/21 Form of interface for quasi-stationary heterogeneous state of an electrolyte during etching of ferromagnetic plate with the stripe domain structure**

Gorobets O.Yu., Bondar I.A.

*National Technical University of Ukraine "KPI", Kiev*

**AP1-10P/22 Magnetic substrates with determined 3D geometry of magnetic field for the biotechnology applications**

Ignateva T.A.<sup>1</sup>, Voevodin V.N.<sup>1</sup>, Goltsev A.N.<sup>3</sup>, Kutsenko P.A.<sup>1</sup>,  
Kalinovskiy V.V.<sup>1</sup>, Dzhezherya Y.I.<sup>2</sup>, Golub V.O.<sup>2</sup>, Sharai I.<sup>2</sup>,  
Kiroshka V.V.<sup>3</sup>, Urchyk T.A.<sup>3</sup>

<sup>1</sup>*National Scientific Center "Kharkov Institute of Physics and Technology", Kharkov, Ukraine*

<sup>2</sup>*Institute of Magnetism NASU and MESU, Kiev, Ukraine*

<sup>3</sup>*Institute for Problems of Cryobiology and Cryomedicine NASU, Kharkov, Ukraine*

**AP1-10P/23 Effects of static magnetic field on proliferation and adhesion of the cell culture**

Kiroshka V.V.<sup>1</sup>, Urchyk T.A.<sup>1</sup>, Voevodin V.N.<sup>2</sup>, Ignateva T.A.<sup>2</sup>, Bovda A.M.<sup>2</sup>,  
Golub V.O.<sup>3</sup>

<sup>1</sup>*Institute for Problems of Cryobiology and Cryomedicine NASU, Kharkov, Ukraine*

<sup>2</sup>*National Scientific Center "Kharkov Institute of Physics and Technology, Kharkov, Ukraine*

<sup>3</sup>*Institute of Magnetism NASU and MESU, Kiev, Ukraine*

**AP1-10P/24 The mineralization of bone under the influence of drugs having aminophosphonate - bisphosphonate structure**

Mostovoy S.O.<sup>1</sup>, Shulgin V.F.<sup>2</sup>, Milyukova E.T.<sup>2</sup>, Maksimova E.M.<sup>2</sup>,  
Nauhatsky I.A.<sup>2</sup>, Strugatsky M.B.<sup>2</sup>

<sup>1</sup>*S.I. Georgievsky Crimean State Medical University, Simferopol, Ukraine*

<sup>2</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*

**AP1-10P/25 The functionalized textile based on cellulose – titania hybrids**

Galkina O.L., Agafonov A.V.

*Institute of Solution Chemistry of Russian Academy of Science, Ivanovo, Russia*

**AP1-10P/26 Directional changes of titanium preform's structure in the process of oxidative construction of ceramic materials**

Vinogradov D.N., Kuznetsov K.B., Zufman V.Yu., Shashkeev K.A.

*Baikov Institute of Metallurgy and Material Science, Moscow, Russia*

**AP1-10P/27 Synthesis of cluster anion  $[B_{12}H_{12}]^{2-}$  derivatives with the exopolyhedral B-OH reaction site for the subsequent modification in developing BNCT preparations**

Ogarkov A.I., Chernyavskiy A.S., Sakharov S.G., Solntsev K.A.

*A. Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow, Russia*

**15.00-19.00****Poster Session AP2.****Section 11. "Green" Materials & Technologies for Sustainable Development**

**Chairmen:** Salikhov R.B.

**AP2-11P/1 New polymers for organic solar cells**

Salikhov R.B., Biglova Yu.N., Salikhov T.R., Yumaguzin Yu.M.  
*Bashkir State University, Ufa, Russia*

**AP2-11P/2 Halloysite – nontoxic biocompatible material for microencapsulation of the microbial cells**

Konnova S.A., Fakhrullin R.F.  
*Kazan Federal University, Kazan, Tatarstan, Russia*

**AP2-11P/3 Ionic liquids as electrolytes for electrochemical capacitors**

Grishina E.P., Borzova E.V., Pimenova A.M., Kudryakova N.O.  
*G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences*

**AP2-11P/4 Effect of Orientation of Buildings with Different Materials and Distribution of Temperature in Walls Thickness**

Hamdani M.<sup>1</sup>, Bekkouche S.M.A.<sup>1</sup>, Benouaz T.<sup>2</sup>, Cherier M.K.<sup>1</sup>, Benamrane N.<sup>1</sup>, Halloufi O.<sup>1</sup>

<sup>1</sup>*Applied Research Unit on Renewable Energies, Development Center of Renewable Energies, Gart Taam Ghardaïa, Algeria*

<sup>2</sup>*Laboratory of Electronic Physics and Modeling, University Abou Bakr Belkaïd, Tlemcen, Algeria*

**AP2-11P/5 Carbon molecular sieve for hydrogen separation and purification in PSA systems**

Berveno A.V.  
*LLC «Center of Coal Technology and New Carbon Materials», Kemerovo, Russia*

**AP2-11P/6 Two Approaches for The study of The Effect of Building Materials on The Internal Temperatures of a Habitat**

Cherier M.K.<sup>1</sup>, Bekkouche S.M.A.<sup>1</sup>, Benouaz T.<sup>2</sup>, Hamdani M.<sup>1</sup>, Benamrane N.<sup>1</sup>, Halloufi O.<sup>1</sup>

<sup>1</sup>*Applied Research Unit on Renewable Energies, Garet Etaam Ghardaïa, Algeria*

<sup>2</sup>*Laboratory of Electronic Physics and Modeling, University Abou Bakr Belkaïd, Tlemcen, Algeria*

**AP2-11P/7 Nanocomposite seeds treatment**

Babich O.O., Sidorin Y.Y., Novoselova M.V.  
*Kemerovo Institute of Food Science and Technology, Kemerovo, Russia*

**AP2-11P/8 The influence of triboelectrical charges on the results of the dielectric characteristics measurement of the cross-linked polyethylene cables**

Bezprozvannykh G.V., Boyko A.N.  
*National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine*

## Tuesday, October 1

**9.00-13.15**

**Oral Session BA.**

### **Section 7. Magnetic Dynamics. Meta & Microwave Materials**

**Chairmen:** Demokritov S., Slavin A.

- BA-7L/1** **Magnetic dynamics driven by spin current (*Invited*)**  
Demokritov S.O.  
*University of Muenster, Muenster, Germany*
- BA-7L/2** **Studying GHz and THz properties of magnonic metamaterials and waveguides in the time domain (*Invited*)**  
Kruglyak V.V.<sup>1</sup>, Au Y.<sup>1</sup>, Davies C.S.<sup>1</sup>, Chertopalov S.V.<sup>2</sup>  
<sup>1</sup>*University of Exeter, Exeter, United Kingdom*  
<sup>2</sup>*Donetsk National University, Donetsk, Ukraine*
- BA-7L/3** **Magnon transistor and signal processing with magnonic crystals (*Invited*)**  
Serga A.A.<sup>1</sup>, Chumak A.V.<sup>1</sup>, Hillebrands B.<sup>1</sup>  
<sup>1</sup>*Fachbereich Physik and Landesforschungszentrum OPTIMAS, Technische Universität of Kaiserslautern, Kaiserslautern, Germany*
- BA-7L/4** **Non-isochronous properties of a current-driven magnetic vortex auto-oscillator (*Invited*)**  
Slavin A.N. and Tiberkevich V.S.  
*Department of Physics, Oakland University, Rochester, Michigan, USA*
- BA-7L/5** **Magnetic vortex dynamics in arrays of coupled circular nanodots (*Invited*)**  
Sukhostavets O.V.<sup>1</sup>, Gonzalez J.<sup>1</sup>, Gusliencko K.Y.<sup>1,2</sup>  
<sup>1</sup>*Dpto. Física de Materiales, Universidad del País Vasco, San Sebastián, Spain*  
<sup>2</sup>*IKERBASQUE, The Basque Foundation for Science, Bilbao, Spain*
- BA-7O/1** **Theory of magnetization dynamics in a dual-free-layer spin-torque nano-oscillator**  
Prokopenko O.V.<sup>1</sup>, Tiberkevich V.S.<sup>2</sup>, Slavin A.N.<sup>2</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*Oakland University, Rochester, MI, USA*
- BA-7O/2** **Theory of fast ground state switching of an array of coupled magnetic nano-dots**  
Verba R.V.<sup>1</sup>, Tiberkevich V.S.<sup>2</sup>, Melkov G.A.<sup>1</sup>, Slavin A.N.<sup>2</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*Oakland University, Rochester, MI, USA*
- BA-7O/3** **The sensitivity of metamaterial-ferromagnetic-antiferromagnetic waveguide sensors**  
Al-Sahhar Z.I.<sup>1</sup>, El-Khozondar H.J.<sup>2</sup>, Shabat M.M.<sup>3</sup>  
<sup>1</sup>*Physics Department, Al-Aqsa University, Gaza, Palestine*  
<sup>2</sup>*Electrical Engineering Department, Islamic University, Gaza, Palestine*  
<sup>3</sup>*Physics Department, Islamic University, Gaza, Palestine*

**9.00-14.00****Poster Session BP1.****Section 6. Magnetoelastic & Adaptive Materials****Chairmen:** Smith A., Glavatska N.

- BP1-6P/1** **The nature of the ferromagnetic state in MnNiGe-based half-Heusler alloys. *Ab initio* study**  
Golovchan A.V.<sup>1,2</sup>, Gribanov I.F.<sup>1</sup>  
<sup>1</sup>*Donetsk Institute for Physics and Engineering named after O.O. Galkin NASU, Donetsk, Ukraine*  
<sup>2</sup>*Donetsk National University, Donetsk, Ukraine*
- BP1-6P/2** **Theoretical investigation of magnetocaloric effect in MnNiGe-based alloys**  
Bagryanova O.V.<sup>1</sup>, Golovchan A.V.<sup>1,2</sup>  
<sup>1</sup>*Donetsk National University, Donetsk, Ukraine*  
<sup>2</sup>*Donetsk Institute for Physics and Engineering named after O.O.Galkin NASU, Donetsk, Ukraine*
- BP1-6P/3** **Electronic structure, optical and magnetic properties of Co<sub>2</sub>FeGe Heusler alloy films**  
Kudryavtsev Y.V.<sup>1</sup>, Uvarov N.V.<sup>1</sup>, Kravets A.F.<sup>2,3</sup>, Vovk A.Ya.<sup>4</sup>,  
 Borges R.P.<sup>4</sup>, Godinho M.<sup>4</sup>, and Korenivski V.<sup>2</sup>  
<sup>1</sup>*Institute of Metal Physics, NA S of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Nanostructure Physics, Royal Institute of Technology, Stockholm, Sweden*  
<sup>3</sup>*Institute of Magnetism, National Academy of Sciences of Ukraine, Kiev, Ukraine*  
<sup>4</sup>*CFMC, Department of Physics, University of Lisbon, Campo Grande, Lisbon, Portugal*
- BP1-6P/4** **Elastic modulus variation in the course of stabilization/destabilization of crystal lattice**  
Kosogor A.<sup>1</sup>, L'vov V.A.<sup>1,2</sup>  
<sup>1</sup>*Institute of Magnetism, Kyiv, Ukraine*  
<sup>2</sup>*Taras Shevchenko University, Kyiv, Ukraine*
- BP1-6P/5** **Magnetostructural transitions in metamagnetic Ni-Mn-In alloy**  
 Koledov V.V.<sup>1</sup>, Kokorin V.V.<sup>2</sup>, Shavrov V.G.<sup>1</sup>, Konoplyuk S.M.<sup>2</sup>,  
 Troyanovsky D.A.<sup>2</sup>, Mashirov A.V.<sup>1</sup>, Aliev A.M.<sup>3</sup>  
<sup>1</sup>*Kotelnikov Institute of Radio-engineering and Electronics, RAS, Moscow, Russia*  
<sup>2</sup>*Institute of magnetism of NASU and MESU, Kyiv, Ukraine*  
<sup>3</sup>*Amirkhanov Institute of Physics of RAS, Makhachkala, Russia*
- BP1-6P/6** **Effect of cooling on free electrons density distribution for Ni-Mn-Ga-(Fe) martensites**  
 Musienko D.<sup>1</sup>, Glavatsky I.<sup>2</sup>, Glavatska N.<sup>1</sup>  
<sup>1</sup>*Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Helmholtz Centre Berlin for Materials and Energy, Institute for Complex Magnetic Materials, Berlin, Germany*
- BP1-6P/7** **Self accommodation of martensitic structure with cooling on the example of Ni-Mn-Ga**  
Glavatska N.<sup>1</sup>, Glavatsky I.<sup>2</sup>, Popov A.<sup>3</sup>  
<sup>1</sup>*Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Helmholtz Centre Berlin for Materials and Energy, Institute for Complex Magnetic Materials, Berlin, Germany*  
<sup>3</sup>*Institute for Physic, I. Mechnicov's National University of Odessa, Ukraine*

- BP1-6P/8 Possibility of the Electronic Speckle-Pattern Interferometry for study of the structure evolution on the Ni-Mn-Ga- example**  
 Popov A.<sup>2</sup>, Glavatska N.<sup>1</sup>, Gorbach P.<sup>1</sup>, Chicherina V.<sup>1</sup>, Tyurin A.<sup>2</sup>  
<sup>1</sup>*Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Research Institute of Physics of Odessa, I.I. Mechnikov National University, Ukraine*
- BP1-6P/9 The martensitic structure investigation of Ni<sub>2</sub>MnGa alloy by EBSD analysis**  
Musabirov I.I.<sup>1</sup>, Mulyukov R.R.<sup>1</sup>, Koledov V.V.<sup>2</sup>  
<sup>1</sup>*Institute for Metals Superplasticity Problems of RAS, Ufa, Russia*  
<sup>2</sup>*Institute of Radio Engineering and Electronics of RAS, Moscow, Russia*
- BP1-6P/10 The crystallographic texture of polycrystalline Ni<sub>2.08</sub>Mn<sub>0.96</sub>Ga<sub>0.96</sub> alloy**  
Musabirov I.I.<sup>1</sup>, Mulyukov R.R.<sup>1</sup>, Koledov V.V.<sup>2</sup>  
<sup>1</sup>*Institute for Metals Superplasticity Problems of RAS, Ufa, Russia*  
<sup>2</sup>*Institute of Radio Engineering and Electronics of RAS, Moscow, Russia*
- BP1-6P/11 Effect of oxidation of powder on nuclear magnetic resonance and electroconductivity of Heusler Cu-Mn-Al alloy**  
Nadutov V.M.<sup>1</sup>, Perekos A.O.<sup>1</sup>, Kokorin V.V.<sup>2</sup>, Konoplyuk S.<sup>2</sup>,  
 Trachevskiy V.V.<sup>3</sup>  
<sup>1</sup>*G.V. Kurdyumov institute for Metal Physics of NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*Institute for Magnetism of NAS and Ministry of education of Ukraine, Kyiv, Ukraine*  
<sup>3</sup>*Technical Centre of NAS of Ukraine, Kyiv, Ukraine*
- BP1-6P/12 Structural and Magnetic properties of Ni(Co)-Mn-Al melt spun ribbons**  
Lyange M.V.<sup>1</sup>, Khovaylo V.V.<sup>1</sup>, Singh R.<sup>2</sup>, Srivastava S.K.<sup>2</sup>,  
 Chatterjee R., Varga L.K.<sup>3</sup>, Rodionova V.<sup>4</sup>  
<sup>1</sup>*National University of Science and technology "MISiS", Moscow, Russia*  
<sup>2</sup>*Indian Institute of Technology Delhi, new-Delhi, India*  
<sup>3</sup>*Research Institute for Solid State Physics and Optics, Hungarian Academy of Sciences, Budapest, Hungary*  
<sup>4</sup>*Immanuel Kant Baltic federal University, Kaliningrad, Russia*
- BP1-6P/13 Volume effect due to the intermartensitic transformations in Ni-Mn-Ga alloy**  
 Polyakov P.I.<sup>1</sup>, Slyusarev V.V.<sup>1</sup>, Kokorin V.V.<sup>2</sup>, Konoplyuk S.M.<sup>2</sup>,  
 Khovaylo V.V.<sup>3</sup>, Semenova Yu.S.<sup>2</sup>  
<sup>1</sup>*Institute for Physics of Mining Processes, NAS Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Institute of magnetism, NAS, Ukraine, Kyiv, Ukraine*  
<sup>3</sup>*National University of Science and Technology "MISIS", Moscow, Russia*
- BP1-6P/14 Thermomechanical properties of rapidly quenched Ni<sub>57</sub>Mn<sub>21</sub>Al<sub>22-x</sub>Si<sub>x</sub> ribbons**  
Barmina E.<sup>1</sup>, Lyange M.<sup>1</sup>, Gorshenkov M.<sup>1</sup>, Schetinin I.<sup>1</sup>, Khovaylo V.<sup>1</sup>,  
 Koledov V.<sup>2</sup>, Kuchin D.<sup>2</sup>, Singh R.<sup>3</sup>, Chatterjee R.<sup>3</sup>  
<sup>1</sup>*National University of Science and Technology "MISIS", Russia, Moscow*  
<sup>2</sup>*Kotelnikov Institute of Radio Engineering and Electronics, Russia, Moscow*  
<sup>3</sup>*Indian Institute of Technology Delhi, New-Delhi, India*

- BP1-6P/15 Magnetic states of ferromagnetic nanoparticle systems distributed in Cu-Mn-Al alloy matrix**  
 Kokorin V.V.<sup>1</sup>, Konoplyouk S.M.<sup>1</sup>, Kozlova L.E.<sup>1</sup>, Kolomiets A.V.<sup>2</sup>, Nadutov V.M.<sup>3</sup>, Perekos A.E.<sup>3</sup>  
<sup>1</sup>*Institute of Magnetism NAS of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Department of Condensed Matter Physics, Charles University, Prague, Czech Republic*  
<sup>3</sup>*Institute of Metal Physics, Kiev, Ukraine*
- BP1-6P/16 The effect of pressure on the phase-coherent state in ferromagnetic - superconductor composites**  
Kononenko V.V., Tarenkov V.Yu., D'yachenko A.I., Varyukhin V.N.  
*Donetsk Institute for Physics and Engineering named after O.O. Galkin of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BP1-6P/17 Peculiarities of longitudinal hypersound propagation in strained crystal of Iron Borate**  
Khizhnyi V.I., Tarakanov V.V., Khizhnaya T.M., Korolyuk A.P.  
*O.Ya. Usikov Institute of Radiophysics and Electronics NAS of Ukraine, Kharkov, Ukraine*
- BP1-6P/18 The missing branches in the Parekh wave range**  
 Prikhodko O.V.<sup>1</sup>, Sukhorukova O.S.<sup>1</sup>, Tarasenko S.V.<sup>1</sup>, Tarasenko A.S.<sup>1</sup>, Shavrov V.G.<sup>2</sup>  
<sup>1</sup>*Donetsk A.A. Galkin Institute of Physics & Engineering of NASU, Donetsk, Ukraine*  
<sup>2</sup>*V.A. Kotelnikov Institute of Radioengineering & Electronics of RAS, Moscow, Russia*
- BP1-6P/19 Magnetic properties and size distribution of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles in liquid**  
Koshelyuk S.<sup>1,2</sup>, Pylnov Yu.<sup>1,2</sup>, Preobrazhensky V.<sup>2,3</sup>, Pernod Ph.<sup>2</sup>  
*Joint International Laboratory LICS/LEMAC:*  
<sup>1</sup>*Moscow State Technical University of Radioengineering, Electronics and Automation, Moscow, Russia*  
<sup>2</sup>*Institute of Electronics, Microelectronics and Nanotechnology, Villeneuve d'Ascq cedex, France*  
<sup>3</sup>*Wave Research Center, A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*
- BP1-6P/20 Application of Magnetoelastic Materials as Active Elements in Ultrasonic WPC-Tomography of Liquids Flows**  
 Pylnov Yu.V.<sup>1,2</sup>, Pernod Ph.<sup>1</sup>, Preobrazhensky V.L.<sup>1,3</sup>, Kutlubaeva Yu.I.<sup>1,2</sup>, Smagin N.V.<sup>1,3</sup>, Shirkovsky P.N.<sup>1</sup>  
*Joint International Laboratory LEMAC/LICS:*  
<sup>1</sup>*Institut of Electronics, Microelectronics and Nanotechnology, PRES Lille North of France, ECLille, Villeneuve d'Ascq Cedex, France*  
<sup>2</sup>*Moscow Institute of Radio Engineering, Electronics, and Automation, Moscow, Russia*  
<sup>3</sup>*Wave Research Center, A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*

- BP1-6P/21 Heating of a biological tissue's phantom by a focused conjugated ultrasound beam parametrically generated in a magneto-acoustic ferrite system**  
 Klopotov R.V., Brysev A.P., Krutyansky L.M., and Bunkin V.F.  
*Laboratoire International associe sur les phenomenes Critiques et Supercritiques en electronique fonctionnelle, acoustique et fluide (LICS)*  
*Wave Research Center of A.M. Prokhorov General Physics Institute RAS, Moscow, Russia*
- BP1-6P/22 Magnetomechanical resonance based determination of material constants of magneto-optical crystals**  
 Linchevskiy I.V.  
*National technical university «Kyiv. Polytekh. Inst.», Kyiv, Ukraine*
- BP1-6P/23 Features of radiation passing through the magneto-optical crystals in condition magneto mechanical resonance**  
 Shevchenko T.I., Linchevskiy I.V., Panchenko M.M.  
*National technical university «Kyiv. Polytekh. Inst.», Kyiv, Ukraine*

**9.00-14.00****Poster Session BP2.****Section 1. Fundamental Physics of Functional Materials I**

**Chairmen:** Val'kov V., Vakhitov R.

- BP2-1P/1 The doping transformation of the Fermi surface within the norm-conserving cluster perturbation theory: comparison with ARPES**  
 Nikolaev S.V.<sup>1</sup>, Ovchinnikov S.G.<sup>1,2</sup>  
<sup>1</sup>*Siberian Federal University, Krasnoyarsk, Russia*  
<sup>2</sup>*L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia*
- BP2-1P/2 Effect of Multiple Scattering on the Quantum Transport of Electrons through a Magnetic Impurity with the Single-Ion Anisotropy**  
 Val'kov V.<sup>1</sup>, Aksenov S.<sup>1</sup>, and Ulanov E.<sup>2</sup>  
<sup>1</sup>*Kirensky Institute of Physics, Krasnoyarsk, Russia*  
<sup>2</sup>*Siberian Aerospace University, Krasnoyarsk, Russia*
- BP2-1P/3 Influence of the external magnetic field on the phase states of spin-1 antiferromagnet with Ising-like exchange interaction**  
 Klevets Ph.N., Kosmachev O.A., Fridman Yu.A., Alexeyev C.N.  
*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- BP2-1P/4 Phase transitions in ultra-thin magnetic films with competing easy-plane and inclined single-ion anisotropies**  
 Meleshko A.G., Gorelikov G.A., Krivtsova A.V., Fridman Yu.A., Yavorsky M.A.  
*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- BP2-1P/5 High-frequency magnetic oscillations for antiferromagnets with highly-anisotropic ions**  
 Butrim V.I.<sup>1</sup>, Galkina E.G.<sup>2</sup>, and Ivanov B.A.<sup>3</sup>  
<sup>1</sup>*V.I. Vernadsky Taurida National University, Simferopol, Ukraine*  
<sup>2</sup>*Institute of Physics NASU, Kiev, Ukraine*  
<sup>3</sup>*Institute of Magnetism NASU, Kiev, Ukraine*

- BP2-1P/6 Quantum properties of the Bloch point in uniaxial ferromagnets with strong magnetic anisotropy**  
Shevchenko A.B.<sup>1</sup>, Barabash M.Yu.<sup>2</sup>, Vlaykov G.G.<sup>2</sup>  
<sup>1</sup>*G.V. Kurdyumov Institute of Metal Physics, NASU, Kyiv, Ukraine*  
<sup>2</sup>*Technical Centre, National Academy of Science of Ukraine, Kyiv, Ukraine*
- BP2-1P/7 Change of Domain Wall Topology in a (111) Iron Garnet Slab under the Influence of a Transverse Magnetic Field**  
Vakhitov R.M., Ryakhova A.G., Plavski V.V.  
*Bashkir State University, Ufa, Russia*
- BP2-1P/8 Nucleation and Properties of Magnetic Inhomogeneities upon Defects of Ferromagnets**  
Magadeyev Ye.B., Vakhitov R.M.  
*Bashkir State University, Ufa, Russia*
- BP2-1P/9 Some Aspects of Nucleation for Magnetic Material with Quality Factor  $Q \leq 1$**   
Vakhitov R.M., Akhtyamova D.I., Yumaguzin A.R.  
*Bashkir State University, Ufa, Russia*
- BP2-1P/10 Stable States of Magnetic Inhomogeneities Localized in the Defect Area**  
Vakhitov R.M., Yumaguzin A.R., Solonetski R.V.  
*Bashkir State University, Ufa, Russia*
- BP2-1P/11 Charge states of Mn in  $(\text{Ga}_{1-x}\text{Mn}_x)\text{As}$  dilute ferromagnetic semiconductors: DFT cluster approach**  
Krauklis I.V., Podkopaeva O.Yu., Chizhov Yu.V.  
*Department of Physics, St. Petersburg State University, St. Petersburg, Russia*
- BP2-1P/12 The role of selenium deficiency in enhancing the ferromagnetic exchange in magnetic semiconductor  $\text{CdCr}_2\text{Se}_4$**   
Vinogradova G.I.<sup>1</sup>, Anzina L.V.<sup>1</sup>, Veselago V.G.<sup>1</sup>, Menshchikova T.N.<sup>2</sup>  
<sup>1</sup>*Prokhorov General Physics Institute, RAS, Moscow, Russia*  
<sup>2</sup>*Kurnakov Institute of General and Inorganic Chemistry, RAS, Moscow, Russia*
- BP2-1P/13 The magnetic moment of the solid solutions  $\text{Cd}_{1-x}\text{Zn}_x\text{Cr}_2\text{S}_4$  and  $\text{Fe}_{1-x}\text{Zn}_x\text{Cr}_2\text{S}_4$**   
Kirdyankin D.I., Aminov T.G., Shabunina G.G.  
*Institute of General and Inorganic Chemistry, RAS, Moscow, Russia*
- BP2-1P/14 Magnetic properties of solid solutions  $\text{Cu}_{0.5}\text{Fe}_{0.5-x}\text{Ga}_x\text{Cr}_2\text{S}_4$**   
Aminov T.G., Kirdyankin D.I., Shabunina G.G., and Busheva E.V.  
*Kurnakov's Institute of General and Inorganic Chemistry RAS, Russia, Moscow*
- BP2-1P/15 The temperature dependence of the higher harmonics of  $\text{CdCr}_{2-x}\text{In}_x\text{Se}_4$  magnetization**  
Khavronin V.P.<sup>1</sup>, Vlasova T.A.<sup>2</sup>  
<sup>1</sup>*Petersburg Nuclear Physics Institute RAS, Gatchina, St. Petersburg, Russia*  
<sup>2</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- BP2-1P/16 The functional materials  $\text{MeLn}_2\text{S}_4 - x \text{ mol. } \% \text{ Ln}_2\text{S}_3$ , research of their electrophysical properties and the mechanism of defect formation**  
Ushakova Ju.N.<sup>1</sup>, Kalinina L.A.<sup>1</sup>, Koshurnikova E.V.<sup>1</sup>, Mikhailichenko T.V.<sup>1</sup>, Murin I.V.<sup>2</sup>  
<sup>1</sup>*Vyatka State University, Kirov, Russia*  
<sup>2</sup>*Saint Petersburg State University, Saint Petersburg, Russia*

- BP2-1P/17 Influence sd - exchange interaction on the transport processes in the spinel ferrite**  
Yevstafyev I.I.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- BP2-1P/18 Temperature and magnetic field behavior of magnetization in the diluted magnetic semiconductors CdHg<sub>y</sub>CrSe and HgSe:Fe**  
Bekirov B.<sup>1</sup>, Ivanchenko I.<sup>1</sup>, Popenko N.<sup>1</sup>, Bludov A.<sup>2</sup>, Paschenko V.<sup>2</sup>  
<sup>1</sup>*O.Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine, Kharkov, Ukraine*
- BP2-1P/19 Temperature evolution of the EPR spectra of iron-doped mercury selenide**  
Bekirov B.<sup>1</sup>, Ivanchenko I.<sup>1</sup>, Popenko N.<sup>1</sup>, Zhitlukhina E.<sup>2</sup>, Lamonova K.<sup>2</sup>, Orel S.<sup>2</sup>, Pashkevich Yu.<sup>2</sup>  
<sup>1</sup>*O.Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*O.O. Galkin Donetsk Institute for Physics and Engineering, National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BP2-1P/20 The iron spin state effect on the lattice dynamics in iron chalcogenides FeSe, FeTe, and Rb<sub>2</sub>Fe<sub>4</sub>Se<sub>5</sub>**  
Shevtsova T.<sup>1</sup>, Gusev A.<sup>1</sup>, Gnezdilov V.<sup>2</sup>, Lemmens P.<sup>3</sup>, Pashkevich Yu.<sup>1</sup>  
<sup>1</sup>*A.A. Galkin Donetsk Institute for Physics and Engineering, NASU, Donetsk, Ukraine*  
<sup>2</sup>*B.I. Verkin Institute for Low Temperature Physics and Engineering, NASU, Kharkov, Ukraine*  
<sup>3</sup>*Institute for Condensed Matter Physics, TU Braunschweig, Germany*
- BP2-1P/21 Modelling of complex anharmonicity influence on temperature-induced spin crossover**  
Bukin G.V., Christov A.V., Shelest V.V., Prokhorov A.Yu., Levchenko G.G.  
*Donetsk Institute for Physics and Engineering of NASU, Donetsk, Ukraine*

**15.00-19.00****Oral Session BB.****Section 3. Materials for Spintronics. Thin Films & Multilayers**

**Chairmen:** Maziewski A., Korenivski V.

- BB-3L/1 Spintronics with antiferromagnets: an alternating alternative (*Invited*)**  
Gomonay O.V., Loktev V.M.  
*National Technical University of Ukraine "KPI", Kyiv, Ukraine*
- BB-3L/2 New routes for ions or light irradiation driven modifications of ultrathin cobalt properties (*Invited*)**  
Maziewski A.<sup>1</sup>, Fassbender J.<sup>2</sup>, Kisielewski J.<sup>1</sup>, Mazalski P.<sup>1</sup>, Stobieck F.<sup>3</sup>, Wawro A.<sup>4</sup>  
<sup>1</sup>*University of Białystok, Faculty of Physics, Białystok, Poland*  
<sup>2</sup>*Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany*  
<sup>3</sup>*Institute of Molecular Physics, Polish Academy of Sciences, Poznań, Poland*  
<sup>4</sup>*Institute of Physics, Polish Academy of Sciences, Warszawa, Poland*

- BB-30/1** **Effect of gate voltage on spin dependent transport through a  $M@C_{60}$  ( $M = Cs, Li$  and  $Na$ ) molecular junction**  
 Vanaie H.<sup>1</sup>, Yaghobi M.<sup>2</sup>, Sedaghat Z.<sup>3</sup>  
<sup>1</sup>*Department of Science, Bushehr Branch, Islamic Azad University, Bushehr, Iran*  
<sup>2</sup>*Islamic Azad University, Ayatollah Amoli Branch, Amol, Iran*  
<sup>3</sup>*Department of Physiology, Bushehr University of Medical Sciences, Bushehr, Iran*
- BB-30/2** **Graphene vertical heterostructures with thin  $MoS_2$  insulating barrier**  
 Myoung Nojoon<sup>1</sup>, Seo Kyungchul<sup>1</sup>, Ihm Gukhyung<sup>1</sup>, and Lee Seung Joo<sup>2</sup>  
<sup>1</sup>*Department of Physics, Chungnam National University, Daejeon, Korea*  
<sup>2</sup>*Quantum-functional Semiconductor Research Center, Dongguk University, Seoul, Korea*
- BB-30/3** **Tunnel Magnetoresistance via Lattice Strain in Magnetic Tunnel Junctions**  
Useinov N.<sup>1</sup>, Useinov A.<sup>2</sup>, Saeed Y.<sup>3</sup>, Singh N.<sup>3</sup>, Schwingenschlogl U.<sup>3</sup>  
<sup>1</sup>*Kazan Federal University, Kazan, Russia*  
<sup>2</sup>*California State University Northridge, Northridge, USA*  
<sup>3</sup>*King Abdullah University of Science and Technology, Thuwal, Saudi Arabia*
- BB-30/4** **Effect of lateral shift of the light transmitted through a one-dimensional superconducting photonic crystal**  
Dadoenkova Yu.S.<sup>1</sup>, Dadoenkova N.N.<sup>1</sup>, Lyubchanskii I.L.<sup>1,2</sup>, Lee Y.P.<sup>3</sup>, and Rasing Th.<sup>4</sup>  
<sup>1</sup>*Donetsk Physical & Technical Institute of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Department of Physics and Technology, Donetsk National University, Donetsk, Ukraine*  
<sup>3</sup>*q-psi and Department of Physics, Hanyang University, Seoul, Republic of Korea*  
<sup>4</sup>*Radboud University of Nijmegen, Institute for Molecules and Materials, Nijmegen, The Netherlands*
- BB-30/5** **Synthetic antiferromagnet's resonant state selection**  
 Dzhezherya Yu.<sup>1</sup>, Iurchuk V.<sup>2</sup>, Demishev K.<sup>2</sup>, Koop B.C.<sup>3</sup>, Korenivski V.<sup>3</sup>  
<sup>1</sup>*Institute of Magnetism, National Academy of Sciences of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*National Technical University of Ukraine "KPI", Kiev, Ukraine*  
<sup>3</sup>*Royal Institute of Technology, Stockholm, Sweden*
- BB-30/6** **A rotatable magnetic anisotropy in  $Si/SiO_2/(Co_2Fe)_xGe_{1-x}$  Heusler alloys film**  
Ryabchenko S.M.<sup>1</sup>, Kalita V.M.<sup>1</sup>, Kulik M.M.<sup>1</sup>, Lozenko A.F.<sup>1</sup>,  
 Nevdacha V.V.<sup>2</sup>, Kravets A.F.<sup>2,3</sup>, Vovk Ya.<sup>4</sup>, Pogoriliy A.M.<sup>2</sup>,  
 Podyalovskiy D.Y.<sup>2</sup>, Borges R.<sup>4</sup>, Godinho M.<sup>4</sup>, and Korenivski V.<sup>3</sup>  
<sup>1</sup>*Institute of Physics NAS Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*Institute of Magnetism NAS and Education Ministry of Ukraine, Kyiv, Ukraine*  
<sup>3</sup>*Nanostructure Physics, Royal Institute of Technology, Stockholm, Sweden*  
<sup>4</sup>*Centro de Física da Matéria Condensada, Universidade de Lisboa, Campo Grande, Lisboa, Portugal*

**BB-3O/7 Influence of interlayer coupling on the domain wall nucleation and motion in ultrathin Co/Pt/Co trilayer**Iunin Yu.L.<sup>1</sup>, Nikitenko V.I.<sup>1,2,3</sup>, Shull R.D.<sup>2</sup>, Chien C.L.<sup>3</sup><sup>1</sup>*Institute of Solid State Physics RAS, Chernogolovka, Russia*<sup>2</sup>*National Institute of Standards and Technology, Gaithersburg, USA*<sup>3</sup>*The Johns Hopkins University, Baltimore, USA***BB-3O/8 Spin-filtering tunneling through quantized energy levels in ferromagnetic heterostructures**Khachaturova T.A., Belogolovskii M.A., Khachaturov A.I.*Donetsk Institute for Physics and Engineering named after O.O. Galkin, National Academy of Sciences of Ukraine, Donetsk, Ukraine***15.00-19.00****Poster Session BQ.****Section 1. Fundamental Physics of Functional Materials II****Chairmen:** Prozorova L., Sergeev N.**BQ-1P/1 Surface Distortions in a Weak Ferromagnet**Vinokurov D.L. and Morosov A.I.*Moscow State Technical University of Radioengineering, Electronics, and Automation, Moscow, Russia***BQ-1P/2 Spin Glass State in DyFeTi<sub>2</sub>O<sub>7</sub>**Petrakovskii G.A., Drokina T.V., Bayukov O.A., Velikanov D.A., Molochev M.S., Pletnev O.N., Rezina E.G.*L.V. Kirensky Institute of Physics, Siberian Branch of Russian Academy of Science, Krasnoyarsk, Russia***BQ-1P/3 Ground state of the classical Shastry-Sutherland lattice and magnetization plateaus in HoB<sub>4</sub>**

Grechnev A.

*B. Verkin Institute for Low Temperature Physics & Engineering of NASU, Kharkiv, Ukraine***BQ-1P/4 Dynamical properties of Peierls-Nabarro barrier for discrete kinks in 1D magnetic dot array**

Bondarenko P.V.

*Institute of Magnetism NAS and MES, Kiev, Ukraine***BQ-1P/5 Effect of heat treatment in vacuum and hydrogen in process of recovery hematite to magnetite**Brekharya G.P.<sup>1</sup>, Bondar N.P.<sup>2</sup><sup>1</sup>*Institute of Metal Physic, Kyiv, Ukraine*<sup>2</sup>*Zaporozhje National University, Ukraine***BQ-1P/6 Electronic structure peculiarities and structural feature of zinc and manganese diphosphates**

Karbivskyy V.L., Smolyak S.S., Zagorodniy Yu.A.

*G. Kurdyumov Institute for Metal Physics NAS of Ukraine, Kyiv, Ukraine*

- BQ-1P/7 Dynamic interaction of dislocations with point defects in hydrostatically compressed crystals**  
Malashenko V.V.<sup>1,2</sup>, Malashenko T.I.<sup>2</sup>, Belykh N.V.<sup>3</sup>  
<sup>1</sup>*Donetsk Physical & Technical Institute of the National Academy of Sciences of Ukraine*  
<sup>2</sup>*Donetsk National Technical University, Donetsk, Ukraine*  
<sup>3</sup>*Donbass State Engineering Academy, Kramatorsk, Ukraine*
- BQ-1P/8 Spin-lattice relaxation of <sup>63,65</sup>Cu nuclei spins in semiconductor CuAlO<sub>2</sub> crystal**  
Shulgin D.A., Khabibullin I.H., Schmidt E.V., Matukhin V.L.  
*Kazan State Power Engineering University, Kazan, Russia*
- BQ-1P/9 Evolution of electronic structure and magnetic properties with Co substitution for Fe in prospective thermoelectric compounds Fe<sub>1-x</sub>Co<sub>x</sub>Ga<sub>3</sub>**  
Gippius A.A.<sup>1,2</sup>, Tkachev A.V.<sup>1,2</sup>, Gervits N.E.<sup>1,2</sup>, Lue C.S.<sup>3</sup>, Buettgen N.<sup>4</sup>, Kraetschmer W.<sup>4</sup>, Verchenko V.Yu.<sup>5</sup>, Shevelkov A.V.<sup>5</sup>  
<sup>1</sup>*Department of Physics, M.V. Lomonosov Moscow State University, Moscow, Russia*  
<sup>2</sup>*A.V. Shubnikov Institute of Crystallography, Moscow, Russia*  
<sup>3</sup>*National Cheng Kung University, Tainan, Taiwan*  
<sup>4</sup>*University of Augsburg, Augsburg, Germany*  
<sup>5</sup>*Department of Chemistry, Moscow State University, Moscow, Russia*
- BQ-1P/10 Adiabatic-potential shape in LiGa<sub>5</sub>O<sub>8</sub> and ZnWO<sub>4</sub> single crystals doped with copper**  
Zhitlukhina E.S., Lamonova K.V., Shapovalov V.A., Orel S.M., Pashkevich Yu.G.  
*O.O. Galkin Donetsk Institute for Physics and Engineering, National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BQ-1P/11 Microscopic magnetic properties of the iron-containing langasite family Ba<sub>3</sub>AFe<sub>3</sub>Si<sub>2</sub>O<sub>14</sub> (A = Sb, Nb, Ta) as seen by zero-field NMR spectroscopy**  
Tkachev A.V.<sup>1,2</sup>, Gippius A.A.<sup>2,1</sup>, Gervits N.E.<sup>1,2</sup>, Lyubutin I.S.<sup>1</sup>  
<sup>1</sup>*A.V. Shubnikov Institute of Crystallography, Moscow, Russia*  
<sup>2</sup>*M.V. Lomonosov Moscow State University, Moscow, Russia*
- BQ-1P/12 EPR of Fe<sup>3+</sup> ions in GaBO<sub>3</sub> single crystals**  
Seleznyova K.<sup>1,3</sup>, Strugatsky M.<sup>1</sup>, Yagupov S.<sup>1</sup>, Postivey N.<sup>1</sup>, Artemenko A.<sup>2</sup>, Kliava J.<sup>3</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*ICMCB, UPR CNRS 9048, Pessac, France*  
<sup>3</sup>*LOMA, UMR 5798 Université Bordeaux I-CNRS, Talence, France*
- BQ-1P/13 <sup>11</sup>B and <sup>7</sup>Li NMR MAS of glassy and crystalline borate compounds**  
Sergeev N.A.<sup>1</sup>, Padlyak B.V.<sup>2,3</sup>, Olszewski M.<sup>1</sup>, Stępień P.<sup>1</sup>  
<sup>1</sup>*Institute of Physics, University of Szczecin, Szczecin, Poland*  
<sup>2</sup>*Spectroscopy Sector, Institute of Physical Optics, Lviv, Ukraine*  
<sup>3</sup>*Division of Spectroscopy of Functional Materials, Institute of Physics, University of Zielona Góra, Zielona Góra, Poland*

- BQ-1P/14 NMR study of nanodiamond to onion transformation**  
 Panich A.M.<sup>1</sup>, Shames A.I.<sup>1</sup>, Sergeev N.A.<sup>2</sup>, Olszewski M.<sup>2</sup>,  
 McDonough J.K.<sup>3</sup>, Mochalin V.N.<sup>3</sup>, Gogotsi Y.<sup>3</sup>  
<sup>1</sup>*Department of Physics, Ben-Gurion University of the Negev, Be'er Sheva, Israel*  
<sup>2</sup>*Institute of Physics, University of Szczecin, Szczecin, Poland*  
<sup>3</sup>*Department of Materials Science and Engineering, Drexel University, Philadelphia, Pennsylvania, USA*
- BQ-1P/15 NMR study of gallosilicate natrolite**  
Sapiga A.A.<sup>1</sup>, Olszewski M.<sup>2</sup>, Paczwa M.<sup>2</sup>, Sapiga A.V.<sup>1</sup>, Sergeev N.A.<sup>2</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Institute of Physics, University of Szczecin, Szczecin, Poland*
- BQ-1P/16 The influence of the RF-field amplitude on the nuclear relaxation rate in the YIG films**  
 Berzhansky V.N., Gorbovanov A.I., Polulyakh S.N., Furs V.V.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- BQ-1P/17 Magic echo of NMR in solids**  
Ryabushkin D.S., Sapiga A.V., Redka Ye.S.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- BQ-1P/18 Symmetry peculiarities of the intracrystalline fields layered semiconductor crystals (PbI<sub>2</sub>)<sub>1-x</sub>(BiI<sub>3</sub>)<sub>x</sub>**  
 Vertegel I.G.<sup>1</sup>, Chesnokov E.D.<sup>1</sup>, Ovcharenko A.I.<sup>1</sup>, Gnatenko Yu.P.<sup>1</sup>,  
 Pogrebnyak S.V.<sup>1</sup>, Barabash A.I.<sup>2</sup>, Vertegel I.I.<sup>3</sup>  
<sup>1</sup>*Institute of Physics NAS of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*State Economic and Technological University of Transport, Kiev, Ukraine*  
<sup>3</sup>*The Faculty of Mechanics and Mathematics, National Taras Shevchenko University of Kiev, Ukraine*
- BQ-1P/19 Local structure and properties of natural nanostructured materials (coals): spectroscopic studies**  
Konchits A.A.<sup>1</sup>, Shanina B.D.<sup>1</sup>, Valakh M.Ya.<sup>1</sup>, Yanchuk I.B.<sup>1,2</sup>,  
 Yukhymchuk V.O.<sup>1</sup>, Yefanov A.V.<sup>1</sup>, Krasnovyd S.V.<sup>1</sup>, Skoryk M.A.<sup>2</sup>,  
 Molchanov A.N.<sup>3</sup>, Vasilenko T.A.<sup>3</sup>, Pozdnyakov A.O.<sup>4</sup>, Pushkarchuk A.L.<sup>5</sup>  
<sup>1</sup>*Institute of Semiconductor Physics of the NAS of Ukraine, Kyiv, Ukraine,*  
<sup>2</sup>*Nanomedtech LLC, Kyiv, Ukraine*  
<sup>3</sup>*Institute for Physics of Mining Processes, Donetsk, Ukraine*  
<sup>4</sup>*Institute of Problems of Mechanical Engineering, Russia*  
<sup>5</sup>*Institute of Physical and Organic Chemistry, Minsk, Belarus*
- BQ-1P/20 Low-temperature spin reorientation of Fe subsystem in the RFeAsO**  
Gornostaeva O.V., Lamonova K.V., Orel S.M., Pashkevich Yu.G.  
*A.A. Galkin Donetsk Institute for Physics and Engineering of NASU, Donetsk, Ukraine*
- BQ-1P/21 Electronic structure and magnetic properties of novel layered superconductors**  
Lyogenkaya A.A., Grechnev A., Logosha A.V., Grechnev G.E.  
*B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine, Kharkov, Ukraine*

- BQ-1P/22 Probing the symmetry of the pairing state in novel iron-based superconductors**  
 Boylo I.V., Belogolovskii M.A.  
*Donetsk Institute for Physics and Engineering named after O.O. Galkin, National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BQ-1P/23 Superconducting properties of NbN–SiO<sub>2</sub> and VN-SiO<sub>2</sub> sol-gel derived thin films**  
 Kościelska B.<sup>1</sup>, Bengus S.V.<sup>2,3</sup>, Yuzephovich O.I.<sup>2,3</sup>  
<sup>1</sup>*Wydział Fizyki Technicznej i Matematyki Stosowanej, Politechnika Gdańska, Gdańsk, Poland*  
<sup>2</sup>*B. Verkin Institute for Low Temperature Physics and Engineering, NAS of Ukraine, Kharkov, Ukraine*  
<sup>3</sup>*International Laboratory of High Magnetic Fields and Low Temperatures, Wrocław, Poland*
- BQ-1P/24 Proximity Effect in Superconducting Triplet Spin Valve F2F1S Structures**  
Deminov R.G.<sup>1</sup>, Tagirov L.R.<sup>1,2</sup>, Gaifullin R.R.<sup>1</sup>, Karminskaya T.Yu.<sup>3</sup>, Kupriyanov M.Yu.<sup>3</sup>, Fominov Ya.V.<sup>4</sup>, Golubov A.A.<sup>5</sup>  
<sup>1</sup>*Institute of Physics, Kazan Federal University, Kazan, Russia*  
<sup>2</sup>*Institute of Physics, Augsburg University, Augsburg, Germany*  
<sup>3</sup>*Skobeltsyn Institute of Nuclear Physics, Moscow State University, Moscow, Russia*  
<sup>4</sup>*Landau Institute for Theoretical Physics RAS, Moscow, Russia*  
<sup>5</sup>*Faculty of Science and Technology and MESA+ Institute of Nanotechnology, University of Twente, Enschede, The Netherlands*
- BQ-1P/25 Resonance tunneling in Josephson superconductor/doped semiconductor/ superconductor junctions**  
 Shapovalov A.P.<sup>1</sup>, Suvorov A.Yu.<sup>2</sup>, Shaternik V.E.<sup>2</sup>  
<sup>1</sup>*A.V. Bakul Institute for Superhard Materials, Kyiv, Ukraine*  
<sup>2</sup>*G.V. Kurdyumov Institute for Metal Physics, Kyiv, Ukraine*
- BQ-1P/26 Magnesium diboride tunnel junctions with strongly inhomogeneous insulating barriers**  
Shaternik A.V.<sup>1</sup>, Prikhna T.A.<sup>1</sup>, Shapovalov A.P.<sup>1</sup>, Belogolovskii M.A.<sup>2</sup>, Shaternik V.E.<sup>3</sup>  
<sup>1</sup>*A.V. Bakul Institute for Superhard Materials, Kyiv, Ukraine*  
<sup>2</sup>*O.O. Galkin Donetsk Institute for Physics and Engineering, Donetsk, Ukraine*  
<sup>3</sup>*G.V. Kurdyumov Institute for Metal Physics, Kyiv, Ukraine*
- BQ-1P/27 Influence of corner parts of HTSC parallelepiped on the angular dependence of its diamagnetic response**  
Vasyliiev A.V., Melnichuk I.A.  
*PMP & HTSC division, Donetsk National University, Donetsk, Ukraine*
- BQ-1P/28 Theoretical modeling of the magnetocaloric effect in La<sub>0.67</sub>Ba<sub>0.33</sub>MnO<sub>3</sub> manganite by Monte Carlo study**  
Pavlukhina O.O., Buchelnikov V.D., Sokolovskiy V.V.  
*Chelyabinsk State University, Chelyabinsk, Russia*

- BQ-1P/29 Enhancement of metal to insulator transition temperature and electroresistance in Ag doped functional materials:  $\text{Sm}_{0.55}\text{Sr}_{0.45-x}\text{Ag}_x\text{MnO}_3$**   
Bhat M.A., Choithrani R. and Gaur N.K.  
*Department of Physics, Barkatullah University Bhopal, India*
- BQ-1P/30 Magnetic and elastic properties of  $\text{La}_{0.4}\text{Pr}_{0.3}\text{Ca}_{0.3}\text{MnO}_3$  single crystal**  
Zainullina R.I.<sup>1</sup>, Bebenin N.G.<sup>1</sup>, Ustinov V.V.<sup>1</sup>, Mukovskii Ya.M.<sup>2</sup>  
<sup>1</sup>*Institute of Metal Physics, UD RAS, Ekaterinburg, Russia*  
<sup>2</sup>*Moscow State Steel & Alloys Institute, Moscow, Russia*
- BQ-1P/31 Inhomogeneity of the magnetic state of  $\text{La}_{1-x}\text{Bi}_x\text{MnO}_{3+\delta}$  ( $0 \leq x \leq 0.4$ ) solid solutions**  
Tarasenko T.N.<sup>1</sup>, Mazur A.S.<sup>1</sup>, Linnik A.I.<sup>1</sup>, Dovgiy V.T.<sup>1</sup>, Kamenev V.I.<sup>1</sup>, Demidenko O.F.<sup>2</sup>, Makovetskii G.I.<sup>2</sup>, Yanushkevich K.I.<sup>2</sup>  
<sup>1</sup>*Donetsk Institute for Physics and Engineering named after O.O. Galkin of NASU, Donetsk, Ukraine*  
<sup>2</sup>*SSPA "Scientific-Practical Materials Research Center of NASB", Minsk, Belarus*
- BQ-1P/32 Pulse and quasi-static remagnetization peculiarities of  $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$  single crystal**  
Dovgii V.T., Linnik A.I., Kamenev V.I., Tarenkov V.Yu., Sidorov S.L., Todris B.M., Mikhailov V.I., Davideiko N.V., Linnik T.A.  
*Donetsk Institute for Physics and Engineering of NASU, Donetsk, Ukraine*
- BQ-1P/33 Ab-initio simulation Lithium ion pathways in LLTO**  
Kalkuta S.A.  
*Institute of magnetism NAS of Ukraine and MES of Ukraine, Kiev, Ukraine*
- BQ-1P/34 Tunnel characteristics of surface layers of LSMO film and  $\text{TiO}_2$  doped ceramics**  
Radchenko E.I., Nikolaenko Yu.M., Medvedev Yu.V., Sivachenko A.P., Starostyuk N.Yu.  
*Donetsk Institute for Physics & Technology, National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BQ-1P/35 Local structure of mixed-ion perovskites and layered perovskites probed by Fe K-XAFS**  
Shuvaeva V.A.<sup>1</sup>, Vlasenko V.G.<sup>1</sup>, Raevskii I.P.<sup>1</sup>, Zubavichus Y.V.<sup>2</sup>  
<sup>1</sup>*Institute of Physics, Southern University, Rostov-on-Don, Russia*  
<sup>2</sup>*Kurchatov Center for Synchrotron Radiation and Nanotechnology, Russian Research Center "Kurchatov Institute", Moscow, Russia*
- BQ-1P/36 Influence of griffiths phase on magnetic properties of  $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_{3-d}$  oxygen-deficient thin films**  
Khokhlov V.A.<sup>1</sup>, Prokhorov A.Yu.<sup>1</sup>, Solin N.I.<sup>2</sup>, Medvedev Yu.V.<sup>1</sup>, Mukhin A.B.<sup>1</sup>, Levchenko G.G.<sup>1</sup>  
<sup>1</sup>*Donetsk Physics & Engineering Institute of NAS of Ukraine*  
<sup>2</sup>*Institute of Physics of Metals, Yekaterinburg, Russia*

- BQ-1P/37** **The relationship “Composition – Structure – Properties” in multifunctional magnetoresistive rare-earth manganites  $\text{La}_{0.3}\text{R}_{0.3}\text{Sr}_{0.3}\text{Mn}_{1.1}\text{O}_3$  ( $R = \text{La}, \text{Pr}, \text{Nd}, \text{Sm}, \text{Eu}$ )**  
Pashchenko A.V.<sup>1</sup>, Pashchenko V.P.<sup>1,2</sup>, Prokopenko V.K.<sup>1</sup>, Revenko Yu.F.<sup>1</sup>, Mazur A.S.<sup>1</sup>, Sycheva V.Ya.<sup>1</sup>, Ledenev N.A.<sup>3</sup>  
<sup>1</sup>*Donetsk Institute for Physics and Engineering named after O.O. Galkin, Ukraine*  
<sup>2</sup>*Research and Technology Centre “Reactivelectron”, Donetsk, Ukraine*  
<sup>3</sup>*Donetsk National University, Ukraine*
- BQ-1P/38** **Structural behaviour of solid solution in the  $\text{SmCoO}_3$ -  $\text{SmFeO}_3$  system**  
 Vasylechko L., Kharko O., Pashuk A., Ubizskii S.  
*Lviv Polytechnic National University, Lviv, Ukraine*
- BQ-1P/39** **Experimental investigations of the crystal field splitting of  $\text{Fe}^{2+}$  ion ground term  $^5\text{D}$  in organometallic 2D-structures of Hoffmann-like type  $\text{Fe}(\text{3-Fpy})_2[\text{M}^{\text{II}}(\text{CN})_4]$**   
 Bukin G.V.<sup>1</sup>, Khristov A.V.<sup>1</sup>, Levchenko G.G.<sup>1</sup>, Gaspar A.B.<sup>2</sup>, Real J.A.<sup>2</sup>  
<sup>1</sup>*Donetsk Physical & Technical Institute, NASU, Donetsk, Ukraine*  
<sup>2</sup>*Institut de Ciència Molecular (ICMol)/Departament de Química Inorgànica Universitat de València, València, Spain*
- BQ-1P/40** **Comparative model analysis of cooperative intercomplex bonds in fluorine- and chlorine-containing spin-crossover coordination polymers**  
Khristov A.V., Kuznetsova V.V., Shelest V.V., Prokhorov A.Yu., Levchenko G.G.  
*Donetsk Institute for Physics and Engineering of NASU, Donetsk, Ukraine*
- BQ-1P/41** **Pressure- and Temperature induced phase transition high spin – low spin in 2D coordination compounds  $\text{Fe}(\text{3-Clpy})_2\text{M}(\text{CN})_4$ , where  $\text{M} = \text{Pd}, \text{Pt}, \text{Ni}$**   
Terekhov S.A.<sup>1</sup>, Bukin G.V.<sup>1</sup>, Levchenko G.G.<sup>1</sup>, Gaspar A.B.<sup>2</sup>, Real J.A.<sup>2</sup>  
<sup>1</sup>*Donetsk Physical & Technical Institute NAS of Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Institut de Ciencia Molecular/Departament de Química Inorganica Universitat de Valencia, Paterna, Valencia, Spain*
- BQ-1P/42** **Itinerant electron ferromagnetism in mixed-valent 2D networks bridged by redox-active ligands,  $[\text{M}_2(\text{C}_6\text{C}_{12}\text{O}_4)_3]^{2-}$  ( $\text{M} = \text{Fe}$ ). Comparison with localized-electron antiferromagnetic ordering for monovalent networks ( $\text{M} = \text{Mn}, \text{Cu}$ )**  
Ovanesyan N.S.<sup>1</sup>, Nikitina Z.K.<sup>1</sup>, Shilov G.V.<sup>1</sup>, Aldoshin S.M.<sup>1</sup>, Mushenok F.B.<sup>1</sup>, Train C.<sup>2</sup>, Li Y.<sup>3</sup>, Gruselle M.<sup>3</sup>  
<sup>1</sup>*Institute of Problems of Chemical Physics of Russian Academy of Sciences, Chernogolovka, Russia*  
<sup>2</sup>*LNCMI, UPR CNRS 3228, Grenoble, France*  
<sup>3</sup>*Institut Parisien de Chimie Moléculaire, Paris, France*
- BQ-1P/43** **Magnetic anisotropy of iron garnets nanofilms**  
Semuk Ye.Yu.<sup>1</sup>, Berzhansky V.N.<sup>1</sup>, Golub V.O.<sup>2</sup>, Shaposhnikov A.N.<sup>1</sup>, Prokopov A.R.<sup>1</sup>, Sharay I.V.<sup>2</sup>, Karavainikov A.V.<sup>1</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Institute of Magnetism NASU and MESU, Kiev, Ukraine*

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## Wednesday, October 2

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**9.00-10.00**

### Session CA. Plenary Session III

**Chairmen:** Eltsov K.N., Fraerman A.

**CA-9L/1 What Scanning Probe Microscopy Can Achieve (Invited)**

Eltsov K.N.

*A.M. Prokhorov General Physics Institute RAS, Moscow, Russia*

**CA-10L/2 Biogenic nanomagnetism: origin and some functions (Invited)**

Gorobets O.Yu.<sup>1,2</sup>, Gorobets S.V.<sup>1</sup>, Gorobets Yu.I.<sup>2</sup>

<sup>1</sup>*National Technical University of Ukraine "KPI", Kyiv, Ukraine*

<sup>2</sup>*Institute of Magnetism NAS of Ukraine and MES of Ukraine, Kyiv, Ukraine*

**10.00-13.00**

### Oral Session CB.

#### Section 6. Magnetoelastic & Adaptive Materials

**Chairmen:** Ullakko K., Khovaylo V.

**CB-60/1 Magnetic shape memory alloys - a new player in microfluidics**

Smith A. and Ullakko K.

*Lappeenranta University of Technology, Savonlinna, Finland*

**CB-60/2 Twinning stress in 10M and NM Ni-Mn-Ga-based martensites**

Sozinov A.<sup>1</sup>, Lanska N.<sup>1</sup>, Straka L.<sup>2</sup>

<sup>1</sup>*Adaptamat Ltd., Helsinki, Finland*

<sup>2</sup>*Aalto University School of Engineering, Laboratory of Engineering Materials, Aalto, Finland*

**CB-60/3 Intermartensite transformation in Ni<sub>50</sub>Mn<sub>25+x</sub>Ga<sub>25-x</sub> alloys and its effect on twinning stress**

Straka L.<sup>1</sup>, Heczko O.<sup>2</sup>, Sozinov A.<sup>3</sup>, and Hänninen H.<sup>1</sup>

<sup>1</sup>*Aalto University School of Engineering, Laboratory of Engineering Materials, Aalto, Finland*

<sup>2</sup>*Institute of Physics ASCR, Prague, Czech Republic*

<sup>3</sup>*Adaptamat Ltd., Helsinki, Finland*

**CB-60/4 Nanoscale processes in martensite formation in shape memory alloys**

Adiguzel O.

*Firat University, Department of Physics, Elazig, Turkey*

**CB-60/5 Magnetocaloric effect in ferromagnetic shape memory alloys – an insight from the direct measurements**

Khovaylo V.V.<sup>1</sup>, Skokov K.P.<sup>2</sup>, Gutfleisch O.<sup>2</sup>

<sup>1</sup>*National University of Science and Technology "MISiS", Moscow, Russia*

<sup>2</sup>*Technical University Darmstadt, Darmstadt, Germany*

- CB-60/6 The influence of ferromagnetic ordering on the elastic properties of shape memory alloy**  
Danilevich A.G.<sup>1</sup>, L'vov V.A.<sup>1,2</sup>  
<sup>1</sup>*Institute of Magnetism, Kyiv, Ukraine*  
<sup>2</sup>*Department of Radiophysics, Taras Shevchenko University, Kyiv, Ukraine*
- CB-60/7 The hypothesis of elastic stresses in the physical processes of formation properties and phase transitions**  
 Polyakov P.I.  
*Country Institute for Physics of Mining Processes, Donetsk, Ukraine*

**9.00-13.00****Poster Session CP1.****Section 7. Magnetic Dynamics. Meta & Microwave Materials**

**Chairmen:** Kruglyak V., Gusliencko K.

- CP1-7P/1 Excitation of a dual-free-layer spin-torque nano-oscillator by a short pulse of dc current**  
Prokopenko O.V.<sup>1</sup>, Tiberkevich V.S.<sup>2</sup>, Slavin A.N.<sup>2</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*Oakland University, Rochester, MI, USA*
- CP1-7P/2 Double-mode vortex dynamics in nanocontact spin-torque oscillators**  
 Pogoryelov Ye.<sup>1</sup>, Sani S.R.<sup>2,3</sup>, Mohseni M.<sup>2,3</sup>, Persson J.<sup>3</sup>, Eklund A.<sup>2</sup>, and Åkerman J.<sup>1,2</sup>  
<sup>1</sup>*Department of Physics, University of Gothenburg, Gothenburg, Sweden*  
<sup>2</sup>*Material Physics, Royal Institute of Technology (KTH), Kista, Sweden*  
<sup>3</sup>*NanOsc AB, Kista, Sweden*
- CP1-7P/3 Resonance Frequencies of the Magnetic Vortices in Films**  
 Kim P.D.<sup>1</sup>, Prokopenko V.S.<sup>2</sup>, Prinz V.Ya.<sup>3</sup>, Orlov V.A.<sup>2</sup>, Rudenko R.Yu.<sup>1</sup>, Vovk D.K.<sup>1</sup>, Zatsepilin S.E.<sup>1</sup>, and Rudenko T.V.<sup>1</sup>  
<sup>1</sup>*Kirensky Institute of Physics, Russian Academy of Sciences, Siberian Branch, Krasnoyarsk, Russia*  
<sup>2</sup>*Krasnoyarsk State Pedagogical University after V.P. Astaf'ev, Russia*  
<sup>3</sup>*Rzhanov Institute of Semiconductor Physics, Russian Academy of Sciences, Siberian Branch, Novosibirsk, Russia*
- CP1-7P/4 Simulation of static and dynamic scenarios of vortex cores polarization switching of bound vortex states in nanocolumnar conducting triplex structure**  
Ekomasov A.E.<sup>1</sup>, Locatelli N.<sup>2</sup>, Khvalkovskiy A.V.<sup>3</sup>, Zvezdin K.A.<sup>3</sup>, Grollier J.<sup>2</sup>, Ekomasov E.G.<sup>1</sup>, Stepanov S.V.<sup>1</sup>, Cros V.<sup>2</sup>  
<sup>1</sup>*Bashkir State University, Ufa, Russia*  
<sup>2</sup>*Unité Mixte de Physique CNRS/Thales and Université Paris Sud 11, Palaiseau, France*  
<sup>3</sup>*Prokhorov General Physics Institute, Moscow, Russia*
- CP1-7P/5 Collective magnetic modes localized on the border of two-dimensional magnetic dot arrays**  
Bondarenko P.V., Ivanov B.A.  
*Institute of Magnetism NAS and MES, Kiev, Ukraine*

- CP1-7P/6 General Approach to Description of One-Dimensional Magnonic Crystals**  
Grigoryeva N.Yu., Kalinikos B.A.  
*St. Petersburg Electrotechnical University, Saint-Petersburg, Russia*
- CP1-7P/7 Effective excitation of spin waves in ferrite magnonic crystals**  
Vysotsky S.L.<sup>1</sup>, Filimonov Yu.A.<sup>1,2</sup>, Nikitov S.A.<sup>2,3</sup>, Stognij A.I.<sup>4</sup>,  
 Shadrov V.G.<sup>4</sup>  
<sup>1</sup>*SB Kotel'nikov IRE RAS, Saratov, Russia*  
<sup>2</sup>*Laboratory of Metamaterials of Chernyshevsky Saratov State University, Saratov, Russia*  
<sup>3</sup>*Kotel'nikov IRE RAS, Moscow, Russia*  
<sup>4</sup>*Scientific-practical materials research centre of NAS of Belarus, Minsk, Belarus*
- CP1-7P/8 Spin wave propagation through the anisotropic interface of two ferromagnets**  
 Gorobets O.Yu.<sup>1</sup>, Gorobets Yu.I.<sup>2</sup>, Marianchyk T.Yu.<sup>1</sup>  
<sup>1</sup>*NTUU "Kiev Polytechnic Institute", Kyiv, Ukraine*  
<sup>2</sup>*Institute of Magnetism NAS of Ukraine, Kyiv, Ukraine*
- CP1-7P/9 Explosive three wave instability in nonlinear magnetoelastic media under parallel electromagnetic pumping**  
Yevstafyev O.I.<sup>1,2</sup>, Preobrazhensky V.L.<sup>1,3</sup>, Pernod P.<sup>1</sup>, Berzhansky V.N.<sup>3</sup>  
*Joint International Laboratory LEMAC/LICS:*  
<sup>1</sup>*IEMN CNRS 8520, Ecole Centrale de Lille, Villeneuve d'Ascq, France*  
<sup>2</sup>*Taurida National University, Simferopol, Ukraine*  
<sup>3</sup>*Wave Research Center, GPI RAS, Moscow, Russia*
- CP1-7P/10 Electromagnetic Wave Absorbing Structure Based on Microwires**  
 Ponomarenko V.I.<sup>1</sup>, Popov V.V.<sup>1</sup>, Qin F.X.<sup>2</sup>, Khatsaiuk V.V.<sup>1</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*ID Nanomaterials Group, National Institute for Material Science, 1-2-1 Sengen, Tsukuba, Ibaraki, Japan*
- CP1-7P/11 Electrodynamic properties of layered structure  $Y_1Ba_2Cu_3O_7/TbMnO_3$**   
Bychkov I.V.<sup>1</sup>, Kuzmin D.A.<sup>1</sup>, Shavrov V.G.<sup>2</sup>  
<sup>1</sup>*Chelyabinsk State University, Chelyabinsk, Russia*  
<sup>2</sup>*The Institute of Radioengineering and Electronics of RAS, Moscow, Russia*
- CP1-7P/12 Calculation of effective electromagnetic parameters for periodical structure from conductive spherical particles by FEM**  
Anzulevich A.P., Butko L.N., Buchelnikov V.D., Bychkov I.V.  
*Chelyabinsk State University, Chelyabinsk, Russia*
- CP1-7P/13 The negative permeability and permittivity in thin wire structure**  
Butko L.N., Anzulevich A.P., Bychkov I.V., Buchelnikov V.D.  
*Chelyabinsk State University, Chelyabinsk, Russia*
- CP1-7P/14 The transmittance of electromagnetic crystal depends on the number of rows of regularly spaced rods**  
 Bychkov I.V., Zotov I.S., Fediy A.A.  
*Chelyabinsk State University, Chelyabinsk, Russia*
- CP1-7P/15 Transmission band of low-symmetry electromagnetic crystals**  
 Fediy A.A., Kalganov D.A., Butko L.N., Bychkov I.V.  
*Chelyabinsk State University, Chelyabinsk, Russia*

- CP1-7P/16 Electrical and shielding properties of graphite-polymer composites after irradiation**  
Vovchenko L.L., Matzui L.Yu., Oliynyk V.V., Launetz V.L., Len' T.A., Lazarenko O.A.  
*Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
- CP1-7P/17 Control of the movement of the kink of the forced and damped sine-Gordon equation by the external frequency-modulated terahertz exposure**  
 Zakiryanov F.K., Daukaev T.R., Gubaidullin M.N.  
*Bashkir State University, Institute of Physics and Technology, Ufa, Russia*
- CP1-7P/18 Investigations reflection and transmission of radio-waves of a centimetric range from composite and multipart films**  
Utkin A.A., Kotov L.N.  
*Syktvykar State University, Syktvykar, Russia*
- CP1-7P/19 Microwave current power dissipation in composite magnetic granular films**  
Lasek M.P.<sup>1</sup>, Vlasov V.S.<sup>1</sup>, Kotov L.N.<sup>1</sup>, Kirpicheva O.A.<sup>1</sup>, Kalinin Yu.E.<sup>2</sup>, Sitnikov A.V.<sup>2</sup>  
<sup>1</sup>*Syktvykar State University, Syktvykar, Russia*  
<sup>2</sup>*Voronezh State Technical University, Voronezh, Russia*
- CP1-7P/20 Investigation of the ferromagnetic resonance properties of metal-dielectric films**  
 Vlasov V.S., Razmyslov I.N., Turkov V.K., Kotov L.N.  
*Syktvykar State University, Syktvykar, Russia*

**9.00-13.00****Poster Session CP2.****Section 3. Materials for Spintronics. Thin Films & Multilayers**

**Chairmen:** Gomonay E., Ekomasov E.

- CP2-3P/1 Current-induced reorientation of antiferromagnetic vector with account of spin-orbit coupling**  
Kondovych S.V., Gomonay H.V.  
*National Technical University of Ukraine "KPI", Kyiv, Ukraine*
- CP2-3P/2 Magnetic and transport properties of CrO<sub>2</sub> thin films**  
 Pogorilii A.M., Nevdacha V.V., Mytsyuk B.M., Podyalovskiy D.Y.  
*Institute of Magnetism NAS of Ukraine, Kyiv, Ukraine*
- CP2-3P/3 TiO<sub>2</sub> - Fe<sub>3</sub>O<sub>4</sub> nanocomposites. Materials for spintronics and photocatalysis**  
 Agafonov A.B., Gerasimova T.V., Kraev A.S., Davidova O.I., Zakharov A.G.  
*Institute of Solution Chemistry of RAS, Ivanovo, Russia*
- CP2-3P/4 Continuous model for exchange bias phenomenon in the ferro/antiferromagnetic layered system**  
 Grechnev A.G., Kovalev A.S., Pankratova M.L.  
*B. Verkin Institute for Low Temperature Physics and Engineering NAS of Ukraine, Kharkiv, Ukraine*

- CP2-3P/5 Ultrafast magnetization dynamics in an ultrathin cobalt/garnet heterostructure**  
Pashkevich M.<sup>1,2</sup>, Maziewski A.<sup>2</sup>, Stognij A.<sup>1</sup>, Novitskii N.<sup>1</sup>, Stupakiewicz A.<sup>2</sup>  
<sup>1</sup>*Scientific-Practical Materials Research Centre of the NASB, Minsk, Belarus*  
<sup>2</sup>*Laboratory of Magnetism, Faculty of Physics, University of Bialystok, Bialystok, Poland*
- CP2-3P/6 Field and frequency dependencies of refraction index and reflection coefficient of spin wave on the interface between uniaxial and biaxial ferromagnets**  
Reshetnyak S., Berezhinsky A.  
*National Technical University of Ukraine "Kyiv Polytechnic Institute"*
- CP2-3P/7 The magnetization and critical transition in nanogranular magnetic film with perpendicular anisotropy in a tilted magnetic field**  
Kalita V.M.<sup>1</sup>, Lozenko A.F.<sup>1</sup>, Ryabchenko S.M.<sup>1</sup>, Sitnikov A.V.<sup>2</sup>, and Stognei O.V.<sup>2</sup>  
<sup>1</sup>*Institute of Physics of the NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*Voronezh State Technical University, Voronezh, Russian Federation*
- CP2-3P/8 Micro- and Nanostructuring of Ferromagnetic Films in the Temperature Gradient Field**  
Vasil'ev B.V.<sup>1</sup>, Kim P.D.<sup>2</sup>, and Prokopenko V.S.<sup>1</sup>  
<sup>1</sup>*Krasnoyarsk State Pedagogical University after V.P. Astaf'ev, Russia*  
<sup>2</sup>*Kirensky Institute of Physics, Russian Academy of Sciences, Siberian Branch, Krasnoyarsk, Russia*
- CP2-3P/9 Chirality Switching in Square Permalloy Microspots**  
Prokopenko V.S.<sup>1</sup>, Kim P.D.<sup>2</sup>, Orlov V.A.<sup>1</sup>, Vasil'ev B.V.<sup>1</sup>, Rudenko R.Yu.<sup>2</sup>, Vovk D.K.<sup>2</sup>, and Zatsepilin S.E.<sup>2</sup>  
<sup>1</sup>*Krasnoyarsk State Pedagogical University after V.P. Astaf'ev, Russia*  
<sup>2</sup>*Kirensky Institute of Physics, Russian Academy of Sciences, Siberian Branch, Krasnoyarsk, Russia*
- CP2-3P/10 Influence of microstructure of Ni textured thin films on coercivity and stripe domain formation**  
Dzhumaliev A., Nikulin Yu., and Filimonov Yu.  
*Saratov Branch of Institute of Radio Engineering and Electronics of RAS, Saratov Russia*
- CP2-3P/11 Magnetic resonance in films with normal and planar field**  
Metlov L.S., Nepochatih Yu.I., Zinowuk A.V.  
*Donetsk institute for physics and engineering, Donetsk, Ukraine*
- CP2-3P/12 The phase transitions in domain boundaries at spin reorientation in ferrite-garnet films**  
Sirjuk Ju.A., Bezus A.V., Smirnov V.V.  
*Donetsk National University, Donetsk, Ukraine*
- CP2-3P/13 The peculiarities of domain boundaries between layers in two-layer film with compensation point in one of the layers**  
Sirjuk Ju.A., Bezus A.V.  
*Donetsk National University, Donetsk, Ukraine*

- CP2-3P/14 Spontaneous phase transitions in bubble domain boundaries of ferrite-garnet film**  
Siryuk Ju.A., Bezus A.V., Smirnov V.V.  
*Donetsk National University, Donetsk, Ukraine*
- CP2-3P/15 Influence of stray fields of ferrite garnet films with stripe domain structure on low energy ion beams**  
Vasko E.I.  
*PMP & HTSC division, Donetsk National University, Donetsk, Ukraine*
- CP2-3P/16 Spatial directivity of magnetic sensors on the basis of YIG films**  
Nikolaenko Yu.M., Mezin N.I., Starostyuk N.Yu., Efros N.B.  
*Donetsk Institute for Physics & Technology, NASU, Donetsk, Ukraine*
- CP2-3P/17 Thermal insulating material on the basis of multilayer film structures**  
Nikolaenko Yu.M., Medvedev Yu.V., Mukhin A.B., Efros N.B., Artemov A.N., Samoletov A.A., Shishkova N.V.  
*Donetsk Institute for Physics & Technology, NASU, Donetsk, Ukraine*
- CP2-3P/18 Estimation of the superparamagnetic nanoparticles characteristics by measuring the nonlinear magnetic susceptibility**  
Kravchuk O.A., Pavlyk L.P., Demchenko P.P., Ubizskii S.B.  
*Lviv Polytechnic National University, Lviv, Ukraine*
- CP2-3P/19 One-dimensional Dynamics of Domain Walls in a Three-layer Ferromagnetic Structure with Various Parameters of Magnetic Anisotropy and Exchange**  
Ekomasov E.G., Murtazin R.R., Nazarov V.N.  
*Bashkir State University, Ufa, Russia*
- CP2-3P/20 One-dimensional dynamics of the domain walls in multilayer ferromagnetic structure**  
Ekomasov E.G., Gumerov A.M., Kudryavtsev R.V., and Plavsky V.V.  
*Bashkir State University, Ufa, Russia*
- CP2-3P/21 Nanocluster magnetism in thin Pd<sub>99</sub>Fe<sub>01</sub> film grown on Nb sublayer**  
Uspenskaya L.S.<sup>1</sup>, Bolginov V.V.<sup>1</sup>, Stolyarov V.S.<sup>1</sup>, Dorosinskii L.A.<sup>2</sup>, Rakhmanov A.L.<sup>3</sup>  
<sup>1</sup>*Institute of Solid State Physics RAS, Chernogolovka, Russia*  
<sup>2</sup>*National Institute of Metrology (TUBITAK-UME), Gebze-Kocaeli, Turkey*  
<sup>3</sup>*Institute for Theoretical and Applied Electrodynamics RAS, Moscow, Russia*
- CP2-3P/22 The influence of interface roughness and pseudomorphous strains on magnetic anisotropy in Co/Cu (111) superlattices**  
Kutko K.V.<sup>1</sup>, Anders A.G.<sup>2</sup>, Zorchenko V.V.<sup>3</sup>, Stetsenko A.N.<sup>3</sup>  
<sup>1</sup>*B.I. Verkin Institute for Low Temperature Physics and Engineering, NAS of Ukraine, Kharkiv, Ukraine*  
<sup>2</sup>*V.N. Karazin Kharkiv National University, Kharkiv, Ukraine*  
<sup>3</sup>*National Engineering University "Kharkov Polytechnical Institute", Kharkiv, Ukraine*

- CP2-3P/23 Lateral interaction and impurity segregation at interfaces in multi-layer metal films**  
Davydova I.M., Melnik T.N., Yurchenko V.M.  
*Donetsk Institute for Physics and Engineering named after A.A. Galkin NAS of Ukraine, Donetsk, Ukraine*
- CP2-3P/24 The role of the surface energy in the formation of unique properties of thin-film materials**  
Shermatov E.N., Shermatov B.N.  
*Samarkand State University, Samarkand, Uzbekistan*
- CP2-3P/25 Optimization of flux gates with multilayered films cores**  
Lubyaniy L.Z., Samofalov V.N., Ravlik A.G., Stecenko A.N., Overko N.E., Chichibaba I.A.  
*National Technical University "Kharkov Polytechnical Institute" Kharkov, Ukraine*
- CP2-3P/26 Metal-insulator transition in systems of magnetic nanoislands**  
Boltaev A.P., Pudonin F.A., Sherstnev I.A.  
*P.N. Lebedev Physical Institute RAS, Moscow, Russia*
- CP2-3P/27 The hysteresis asymmetry in I-V characteristics of MTJ**  
Filatov A.V.<sup>1,2</sup>, Pogorelov A.E.<sup>1</sup>, Burlakov V.O.<sup>2</sup>, Solianyuk P.O.<sup>2</sup>, Zinova O.S.<sup>2</sup>  
<sup>1</sup>*Institute for Metal Physics, National Academy of Science of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine*

## Thursday, October 3

**9.00-13.00****Oral Session DA.**

### Section 4. Plasmonics & Photonics. Electro & Magneto-optic Materials

**Chairmen:** Ivanov B., Pisarev R.

- DA-4L/1** **Harnessing Spin-Orbit and Exchange Interactions for Laser Control of Magnetism (*Invited*)**  
 Kimel A.V.  
*Radboud University Nijmegen, Institute for Molecules and Materials, Nijmegen, The Netherlands*
- DA-4L/2** **Ultrafast spin reversal by femtosecond laser pulses (*Invited*)**  
 Ivanov B.A.  
*Institute of Magnetism, NASU, Kiev, Ukraine*
- DA-4L/3** **Novel magneto-optical effects in plasmonic crystals (*Invited*)**  
 Belotelov V.I.<sup>1,2</sup> and Zvezdin A.K.<sup>2,3</sup>  
<sup>1</sup>*Lomonosov Moscow State University, Moscow, Russia*  
<sup>2</sup>*Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*  
<sup>3</sup>*Moscow Institute of Physics and Technology (State University), Moscow, Russia*
- DA-4L/4** **PT-symmetry in plasmonic systems for switching applications (*Invited*)**  
 Lupu A.<sup>1,2</sup>, Benisty H.<sup>3</sup>, Degiron A.<sup>1,2</sup>  
<sup>1</sup>*Univ. Paris-Sud, Institut d'Électronique Fondamentale, UMR 8622, Orsay, France*  
<sup>2</sup>*CNRS, Orsay, France*  
<sup>3</sup>*Laboratoire Charles Fabry de l'Institut d'Optique, CNRS, Univ. Paris-Sud, Campus Polytechnique, RD 128, Palaiseau, France*
- DA-4O/1** **Multilayered structure acting as magnonic and photonic crystals**  
 Kłos J.W.<sup>1</sup>, Krawczyk M.<sup>1</sup>, Dadoenkova Yu.S.<sup>2</sup>, Dadoenkova N.N.<sup>2</sup>, and Lyubchanskii I.L.<sup>2,3</sup>  
<sup>1</sup>*Faculty of Physics, Adam Mickiewicz University in Poznan, Poznan, Poland*  
<sup>2</sup>*Donetsk Physical and Technical Institute of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*  
<sup>3</sup>*Faculty of Physics and Technology, Donetsk National University, Donetsk, Ukraine*
- DA-4O/2** **Subdiffraction plasmonic chain for magneto-optics enhancement**  
 Baranov D.G.<sup>1,2,3</sup>, Vinogradov A.P.<sup>1,2</sup>, Lisyansky A.A.<sup>4</sup>  
<sup>1</sup>*Institute for Theoretical and Applied Electromagnetics RAS, Moscow, Russia*  
<sup>2</sup>*Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Reg., Russia*  
<sup>3</sup>*All-Russia Research Institute of Automatics, Moscow, Russia*  
<sup>4</sup>*Department of Physics, Queens College of the City University of New York, Flushing, NY, USA*
- DA-4O/3** **Magneto-optical properties of new functional composite structures**  
 Telegin A.V., Mostovshchikova E.V., Gizhevskii B.A., Sukhorukov Yu.P., Bessonov V.D.  
*Institute of Metal Physics, UD of RAS, Yekaterinburg, Russia*

- DA-40/4 Copper metaborate  $\text{CuB}_2\text{O}_4$  as a material with the collection of unique optical, magneto-optical, and nonlinear optical properties**  
 Pisarev R.V.  
*Ioffe Physical Technical Institute RAS, St. Petersburg, Russia*
- DA-40/5 Spectroscopy of Kramers rare-earth ions for studying magnetic functional materials**  
 Klimin S.A.  
*Institute of Spectroscopy RAS, Troitsk, Moscow, Russia*
- DA-40/6 Excitonic magnetic-field-induced second harmonic generation in ZnO**  
 Lafrentz M.<sup>1</sup>, Brunne D.<sup>1</sup>, Kaminski B.<sup>1</sup>, Pavlov V.V.<sup>2</sup>, Rodina A.V.<sup>2</sup>,  
 Pisarev R.V.<sup>2</sup>, Yakovlev D.R.<sup>1,2</sup>, Bakin A.<sup>3</sup>, and Bayer M.<sup>1</sup>  
<sup>1</sup>*Technische Universität Dortmund, Dortmund, Germany*  
<sup>2</sup>*Ioffe Physical-Technical Institute, RAS, St. Petersburg, Russia*  
<sup>3</sup>*Technische Universität Braunschweig, Braunschweig, Germany*
- DA-40/7 Magneto-optics of transition metal chalcogenide nanoparticles dispersed in transparent matrices**  
Edel'man I.S.<sup>1</sup>, Ivantsov R.D.<sup>1</sup>, Lin C.R.<sup>2</sup>, and Ovchinnikov S.G.<sup>1</sup>  
<sup>1</sup>*L.V. Kirensky Institute of Physics, Siberian Branch of Russian Academy of Sciences, Krasnoyarsk, Russia*  
<sup>2</sup>*Institute of Nanotechnology and Department of Mechanical Engineering, Southern Taiwan University of Science and Technology, Tainan County, Taiwan*
- DA-40/8 Scale-model of influence of metallic surface localized defects on experimental ellipsometric data**  
Belyaeva A.I.<sup>1</sup>, Galuza A.A.<sup>2</sup>, Kiseliov V.K.<sup>3</sup>, Kolenov I.V.<sup>1</sup>  
<sup>1</sup>*National Technical University "Kharkov Polytechnical Institute", Kharkov, Ukraine*  
<sup>2</sup>*Institute of Electrophysics and Radiation Technologies of NAS of Ukraine, Kharkov, Ukraine*  
<sup>3</sup>*Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Kharkov, Ukraine*
- DA-40/9 Magneto-optical spectroscopy of manganite thin films**  
Greben'kova Yu.E.<sup>1</sup>, Sokolov A.E.<sup>1</sup>, Edel'man I.S.<sup>1</sup>, Andreev N.V.<sup>2</sup>,  
 and Chichkov V.I.<sup>2</sup>  
<sup>1</sup>*L.V. Kirensky Institute of Physics, SB RAS, Krasnoyarsk, Russia*  
<sup>2</sup>*National University of Science and Technology "MISiS", Moscow, Russia*
- DA-40/10 Dynamics and statics of two-dimensional domain patterns in magneto-photonic crystals**  
Logunov M.V.<sup>1</sup>, Nikitov S.A.<sup>2</sup>, Gerasimov M.V.<sup>1</sup>, Loginov N.N.<sup>1</sup>, Spirin A.V.<sup>1</sup>  
<sup>1</sup>*National Research Ogarev Mordovia State University, Saransk, Russia*  
<sup>2</sup>*Kotel'nikov Institute of Radio Engineering and Electronics of RAS, Moscow, Russia*
- DA-40/11 Spatial localization of the nonlinear beam in an array of nonlinear lightguides**  
 Gerasimchuk V.S.<sup>1</sup> and Gerasimchuk I.V.<sup>2</sup>  
<sup>1</sup>*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine*  
<sup>2</sup>*Institute of Magnetism, NASU&MESU, Kyiv, Ukraine*

**9.00-13.00****Oral Session DB.****Section 8. Luminescent & Radiation Sensing Materials****Chairmen:** Suchocki A., Nedilko S.

- DB-80/1 Multicenter structure of cerium ions in garnet crystals studied by infrared absorption and high-pressure spectroscopies (*Invited*)**  
 Kamińska A.<sup>1</sup>, Przybylińska H.<sup>1</sup>, Ma Chong-Geng<sup>2</sup>, Brik M.G.<sup>2</sup>, Szczepkowski J.<sup>1</sup>, Sybilski P.<sup>1</sup>, Wittlin A.<sup>1,3</sup>, Berkowski M.<sup>1</sup>, Jastrzębski W.<sup>1</sup>, Zorenko Yu.<sup>4</sup>, and Suchocki A.<sup>1,4</sup>  
<sup>1</sup>*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*  
<sup>2</sup>*Institute of Physics, University of Tartu, Tartu, Estonia*  
<sup>3</sup>*Cardinal Stefan Wyszyński University in Warsaw, Warsaw, Poland*  
<sup>4</sup>*Institute of Physics, Kazimierz Wielki University, Bydgoszcz, Poland*
- DB-80/2 New type of chalcogenide scintillators for X-ray radiography (*Invited*)**  
 Starzhinskiy N.G.<sup>1</sup>, Grinyov B.V.<sup>1</sup>, Seminozhenko V.P.<sup>1</sup>, Ryzhikov V.D.<sup>1</sup>, Gektin A.V.<sup>1</sup>, Zhukov A.V.<sup>1</sup>, Zenya I.M.<sup>1</sup>, Lalayants A.I.<sup>1</sup>, Kovalenko N.O.<sup>1</sup>, Shevchenko D.<sup>2</sup>, Tamulaitis G.<sup>2</sup>  
<sup>1</sup>*STC<sup>2</sup> Institute for Single Crystals<sup>2</sup>, NASU, Kharkov, Ukraine*  
<sup>2</sup>*Institute of Applied Research, Vilnius University, Vilnius, Lithuania*
- DB-80/3 Detectors Based on Oxide Scintillators in Inspection Systems for Prevention of Illegal Transportation of Radioactive Substances**  
 Ryzhikov V.D., Grinyov B.V., Onyshchenko G.M., Piven' L.A., Lysetska O.K.  
*Institute for Scintillation Materials of the National Academy of Sciences of Ukraine, Kharkov, Ukraine*
- DB-80/4 Near-field optical sensing with Eu:LaVO<sub>4</sub> nanoparticles**  
Aigouy L.<sup>1</sup>, Billot L.<sup>1</sup>, Nedilko S.G.<sup>2</sup>, Chukova O.<sup>2</sup>, Hizhnyi Yu.<sup>2</sup>, Nedilko S.A.<sup>2</sup>, Voitenko T.<sup>2</sup>  
<sup>1</sup>*Laboratoire de Physique et d'Etude des Matériaux, Paris, France*  
<sup>2</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
- DB-80/5 Remote monitoring of the temperature using scintillators**  
 Mikhailik V.B.<sup>1,2</sup>, Kraus H.<sup>2</sup>, Wagner A.<sup>1</sup>  
<sup>1</sup>*Diamond Light Source Ltd, Harwell Science and Innovation Campus, Didcot, United Kingdom*  
<sup>2</sup>*Department of Physics, University of Oxford, Keble Road, Oxford, United Kingdom*
- DB-80/6 Determination of the absolute light yield of scintillators using the Monte-Carlo refractive index matching (MCRIM) technique**  
 Mikhailik V.B.  
*Department of Physics, University of Oxford, Keble Road, Oxford, United Kingdom*
- DB-80/7 Production and parameters of ZnSe scintillators**  
Galkin S., Ryzhikov V., Lalaiants O.  
*Institute for Scintillation Materials of STC "Institute for Single Crystals" NAS of Ukraine, Kharkov, Ukraine*

- DB-80/8 Growth of double vanadate crystals for lasers**  
Kosmyna M.B., Mateychenko P.V., Nazarenko B.P., Puzikov V.M., Shekhovtsov A.N.  
*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
- DB-80/9 Broadband down-conversion in Yb<sup>3+</sup>-doped oxides for solar spectrum convertors**  
Zhydachevskii Ya.<sup>1,2</sup>, Lipicska L.<sup>3</sup>, Baran M.<sup>3</sup>, Berkowski M.<sup>1</sup>, Suchocki A.<sup>1,4</sup>, Pietruszka R.<sup>1</sup>, Reszka A.<sup>1</sup>  
<sup>1</sup>*Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland*  
<sup>2</sup>*Lviv Polytechnic National University, Lviv, Ukraine*  
<sup>3</sup>*Institute of Electronic Materials Technology, Warsaw, Poland*  
<sup>4</sup>*Institute of Physics, University of Bydgoszcz, Bydgoszcz, Poland*
- DB-80/10 Samarium-doped of zinc tungstate single crystals**  
Yakubovskaya A.G.<sup>1</sup>, Tupitsyna I.A.<sup>1</sup>, Dybovik A.M.<sup>1</sup>, Sheina T.V.<sup>2</sup>, Bryleva E.Yu.<sup>2</sup>, Belikov K.N.<sup>2</sup>, Litichevsky V.A.<sup>1</sup>, Baumer V.N.<sup>2</sup>  
<sup>1</sup>*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*
- DB-80/11 Scintillation characteristics of stilbene and p-terphenyl polycrystals obtained by hot pressure**  
Lazarev I.V., Galunov N.Z., Martynenko E.V., Panikarskaya V.D., Samokhin A.D.  
*Institute for Scintillation Materials of STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*
- DB-80/12 TiO<sub>2</sub>:Yb-Nd system as an active material for photonic and biomedical applications**  
Fidelus J.D.<sup>1</sup>, Zhydachevskii Ya.<sup>1</sup>, Suchocki A.<sup>1</sup>, Michalak K.<sup>2</sup>  
<sup>1</sup>*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*  
<sup>2</sup>*Maria Curie-Skłodowska University in Lublin, Lublin, Poland*

**9.00-14.00****Poster Session DP.****Section 9. Nanophysics & Nanotechnologies for Functional Materials****Chairmen:** Mironov V., Konchits A.

- DP-9P/1 Graphene material produced by microwave exfoliation of graphite oxide**  
Shulga Y.M.<sup>1</sup>, Baskakov S.A.<sup>1</sup>, Knerelman E.I.<sup>1</sup>, Davidova G.I.<sup>1</sup>, Badamshina E.R.<sup>1</sup>, Shulga N.Y.<sup>2</sup>, Skrileva E.A.<sup>2</sup>, Agapov A.L.<sup>3</sup>, Voylov D.N.<sup>3,1</sup>, Sokolov A.P.<sup>3,4</sup>  
<sup>1</sup>*Institute of Problems of Chemical Physics RAS, Chernogolovka, Russia*  
<sup>2</sup>*National University of Science and Technology MISiS, Moscow, Russia*  
<sup>3</sup>*Department of Chemistry, University of Tennessee, Knoxville, TN, USA*  
<sup>4</sup>*Chemistry Division, Oak Ridge National Laboratory, Oak Ridge, TN, USA*
- DP-9P/2 The chiral carbon nanotube encapsulated linear chain of iron**  
Boutko V.G., Gusev A.A., Shevtsova T.N., and Pashkevich Yu.G.  
*A.A. Galkin Donetsk Institute for Physics and Engineering of the NASU, Donetsk, Ukraine*

- DP-9P/3 Electron and phonon spectra of carbon nanofilms with local and continuous defects**  
 Feher A.<sup>1</sup>, Syrkin E.S.<sup>2</sup>, Feodosyev S.B.<sup>2</sup>, Gospodarev I.A.<sup>2</sup>, Kotlyar O.V.<sup>2</sup>, Manzhelii E.V.<sup>2</sup>  
<sup>1</sup>*Centre of Low Temperature Physics, Faculty of Science, P.J. Šafárik University & Institute of Experimental Physics SAS, Košice, Slovakia*  
<sup>2</sup>*B. Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine*
- DP-9P/4 Formation peculiarities and modification of carbon nitride films**  
 Mokhnenko M.I., Varyukhin V.N., Prudnikov A.M., Linnik A.I., Shalaev R.V., Burkhovetskiy V.V.  
*Donetsk Institute for Physics and Engineering named after Galkin of NASU, Donetsk, Ukraine*
- DP-9P/5 The performance of Dye-Sensitized Solar Cells Based on ZnO/SWCNT Nanocomposites**  
 Albiss B.A.  
*Physics Department, Jordan University of Science and Technology, Irbid, Jordan*
- DP-9P/6 Properties of the nitrogen doping carbon nanotubes**  
 Len T.A.<sup>1</sup>, Matzui L.Yu.<sup>1</sup>, Ovsiyenko I.V.<sup>1</sup>, Prylutskiy Yu.<sup>1</sup>, Andrievskii V.V.<sup>2</sup>, Berkutov I.B.<sup>2</sup>  
<sup>1</sup>*Kyiv National Taras Shevchenko University, Departments of Physics, Kiev, Ukraine*  
<sup>2</sup>*B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine, Kharkov, Ukraine*
- DP-9P/7 Electroconductive and radio shielding constructional composite based on an epoxy medium highly-filled with carbon nanotubes**  
 Kondrashov S.V.<sup>1</sup>, Yurkov G.Yu.<sup>1,2</sup>, Bouzник V.M.<sup>1,2</sup>  
<sup>1</sup>*All-Russian Scientific Research Institute of Aviation Materials, Moscow, Russia*  
<sup>2</sup>*Baikov Institute of Metallurgy and Material Sciences Russian Academy of Sciences, Moscow, Russia*
- DP-9P/8 PMMA – SWNTs composites in proton-conducting gel electrolytes**  
 Safonova L.P.<sup>1,2</sup>, Van Thuc Nguyen<sup>2</sup>, Shmukler L.E.<sup>1</sup>  
<sup>1</sup>*G.A. Krestov Institute of Solution Chemistry of the RAS, Ivanovo, Russia*  
<sup>2</sup>*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*
- DP-9P/9 Carbon nanotubes filled composite materials**  
 Sementsov Yu.I.<sup>1</sup>, Kartel M.T.<sup>1</sup>, Mazurenko R.V.<sup>1</sup>, Revo S.L.<sup>2</sup>, Ivanenko K.O.<sup>2</sup>  
<sup>1</sup>*Chuiko Institute of Surface Chemistry, NASU, Kyiv, Ukraine*  
<sup>2</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
- DP-9P/10 Synthesis of Carbon Phases by the Fluid Method**  
 Smolyar A.S.<sup>1</sup>, Shchur D.V.<sup>1</sup>, Nevdacha V.V.<sup>2</sup>, Khomenko B.S.<sup>3</sup>, Barkholenko V.O.<sup>4</sup>, Maloshtan S.M.<sup>4</sup>, Pokropivniy O.V.<sup>1</sup>, Kuts V.O.<sup>2</sup>, Gurin V.G.<sup>2</sup>, Arkhipov O.P.<sup>2</sup>, Titenko A.M.<sup>2</sup>, Zolotarenko O.P.<sup>1</sup>  
<sup>1</sup>*Frantsevich Institute for Problems of Materials Science, Ukraine, Kyiv*  
<sup>2</sup>*Institute of Magnetism NASU and MESYSU, Kyiv, Ukraine*  
<sup>3</sup>*Vernadsky Institute of General and Inorganic Chemistry, NASU, Kyiv, Ukraine*  
<sup>4</sup>*Ltd «Carb Ex», Kyiv, Ukraine*

- DP-9P/11 Electrical and thermal properties of nanographite and based on epoxy composites**  
Ovsienko I.V.<sup>1</sup>, Matzui L.Yu.<sup>1</sup>, Vovchenko L.L.<sup>1</sup>, Perets J.S.<sup>1</sup>, Artemyuk V.A., Brusilovets O.A.<sup>1</sup>  
<sup>1</sup>*Kyiv National Taras Shevchenko University, Kyiv, Ukraine*  
<sup>2</sup>*National Pedagogical Dragomanov University, Kyiv, Ukraine*
- DP-9P/12 Phase composition and state of iron and carbon atoms in fossil coal of Donets basin**  
Nadutov V.M.<sup>1</sup>, Muzychenko A.A.<sup>2</sup>, Svystunov Ye.O.<sup>1</sup>, Trachevs'kii V.V.<sup>3</sup>, Vasylenko T.A.<sup>4</sup>, Moklyak V.V.<sup>5</sup>  
<sup>1</sup>*G.V. Kurdyumov institute for Metal Physics of NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*National technical University "KPI", Kyiv, Ukraine*  
<sup>3</sup>*Technical Centre of NAS of Ukraine, Kyiv, Ukraine*  
<sup>4</sup>*Institute of Physics of Mines Processes of NAS of Ukraine, Donetsk, Ukraine*  
<sup>5</sup>*Prykarpatsky National University after Vasyl Stefanyk, Ivano-Frankivsk, Ukraine*
- DP-9P/13 Formation of Si quantum dots in Ge matrix**  
Yukhymchuk V.O.<sup>1</sup>, Ponomaryov S.S.<sup>1</sup>, Konchits A.A.<sup>1</sup>, Valakh M.Ya.<sup>1</sup>, Stepina N.P.<sup>2</sup>, Dvurechenskii A.V.<sup>2</sup>  
<sup>1</sup>*Institute of Semiconductor Physics of the NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*Institute of Semiconductor Physics, SB RAS, Novosibirsk, Russia*
- DP-9P/14 Influence of the doping isovalent impurity Bi on formation of homogeneous coherently strained quantum dots InAs in matrix GaAs**  
Peleshchak R.M.<sup>1,2</sup>, Guba S.K.<sup>2</sup>, Kuzyk O.V.<sup>1</sup>, Kurilo I.V.<sup>2</sup>, Dankiv O.O.<sup>1</sup>  
<sup>1</sup>*I. Franko Drogobych State Pedagogical University, Drogobych, Ukraine*  
<sup>2</sup>*Lviv Polytechnic National University, Lviv, Ukraine*
- DP-9P/15 Grain boundary structure in nanosilicon films**  
Nakhodkin N.G., Kulish N.P., Rodionova T.V., Sutyagina A.S.  
*Shevchenko National University of Kyiv, Kyiv, Ukraine*
- DP-9P/16 The influence of physics-mechanical properties of SiO<sub>2</sub>/Si interface on the kinetics of oxygen nanoclusters formation in silicon**  
Brinkevich D.I.<sup>1</sup>, Prosolovich V.S.<sup>1</sup>, Yankovski Yu.N.<sup>1</sup>, Prostomolotov A.I.<sup>2</sup>  
<sup>1</sup>*Belarusian State University, Minsk, Belarus*  
<sup>2</sup>*Institute for Problems in Mechanics of RAS, Moscow, Russia*
- DP-9P/17 The optical properties of silicon phthalocyanine films**  
Suleymanov S.S., Murshudli M.N., Ibragimova E.Z., Tahirov M.I.  
*National Aerospace Agency, Baku, Azerbaijan*
- DP-9P/18 The technology for development of photoelement on the basis of nanoheterostructure**  
Kazimov N.F., Hamidova G.T., Jamalova A.G., Aleskerova S.A.  
*Research Institute of Aerospace Informatics, Baku*
- DP-9P/19 Photoinduced electric breakdown in nanocrystal silicon carbide films**  
Kozlovskiy A.A., Semenov A.V., Puzikov V.M.  
*Institute for Single Crystals, STC "Institute for Single Crystals", National Academy of Sciences of Ukraine, Kharkiv, Ukraine*

- DP-9P/20 The correlation between the etching current density and the configuration of the porous InP**  
Suchikova Y.  
*Berdyansk State Pedagogical University, Berdyansk, Ukraine*
- DP-9P/21 Electrical and optical properties of thin films of nanocomposite CdS/polyvinyl alcohol**  
Rudko G.Yu.<sup>1</sup>, Kovalchuk A.O.<sup>1</sup>, Bondarenko V.A.<sup>1</sup>, Fediv V.I.<sup>2</sup>, Gule E.G.<sup>1</sup>  
<sup>1</sup>*V. Lashkariov Institute of Semiconductor Physics of National Academy of Sciences of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Department of Biophysics and Medical Informatics, Bukovinian State Medical University, Chernivtsi, Ukraine*
- DP-9P/22 Magnetic states and ferromagnetic resonance in geometrically frustrated multilayer artificial spin ice on triangular gratings**  
Mironov V.L.<sup>1</sup>, Skorohodov E.V.<sup>1</sup>, Blackman J.A.<sup>2</sup>  
<sup>1</sup>*Institute for Physics of Microstructures RAS, Nizhniy Novgorod, Russia*  
<sup>2</sup>*University of Leicester, Leicester, UK*
- DP-9P/23 Patterning and study of magnetic nanostructures**  
Gusev S.A., Tatarskiy D.A., Sapozhnikov M.V., Vdovichev S.N.  
*Institute for Physics of Microstructures Russian Academy of Science, Nizhny Novgorod, Russia*
- DP-9P/24 Structure and magnetic properties of Ni-N nanofilms**  
Shalaev R.V.<sup>1</sup>, Varyukhin V.N.<sup>1</sup>, Prudnikov A.M.<sup>1</sup>, Linnik A.I.<sup>1</sup>, Kutrovskaya S.V.<sup>2</sup>, Burkhovetskiy V.V.<sup>1</sup>  
<sup>1</sup>*Donetsk Institute for Physics & Engineering, Donetsk, Ukraine*  
<sup>2</sup>*Vladimir State University, Vladimir, Russia*
- DP-9P/25 Effect of capping layers on magnetic property evolution in Co nanofilms**  
Roschenko S.T., Shipkova I.G.  
*National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine*
- DP-9P/26 Complex magneto-structural study of cobalt microgranule arrays**  
Chekrygina Iu.I.<sup>1</sup>, Savitsky B.A.<sup>1</sup>, Shipkova I.G.<sup>1</sup>, Nedukh S.V.<sup>2</sup>, Tarapov S.I.<sup>2</sup>  
<sup>1</sup>*National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine*  
<sup>2</sup>*O.Ya. Usikov Institute of Radiophysics and Electronics, NASU, Kharkiv, Ukraine*
- DP-9P/27 The method of magnetization increasing of the high dispersed ferrite materials up to the macroanalogue level**  
Mozul' K.A.<sup>1</sup>, Ol'khovik L.P.<sup>1</sup>, Shurinova E.V.<sup>1</sup>, Koval' A.A.<sup>2</sup>  
<sup>1</sup>*V.N. Karazin Kharkiv National University, Kharkiv, Ukraine*  
<sup>2</sup>*National Pharmaceutical University, Kharkiv, Ukraine*
- DP-9P/28 Nanostructured Cobalt Processed by High Pressure Torsion: Structure and Properties**  
Podolskiy A.V.<sup>1</sup>, Tabachnikova E.D.<sup>1</sup>, Geist D.<sup>2</sup>, Schafner E.<sup>2</sup>, Zehetbauer M.J.<sup>2</sup>  
<sup>1</sup>*B. Verkin Institute for Low Temperature Physics & Engineering, NASU, Kharkov, Ukraine*  
<sup>2</sup>*Physics of Nanostructured Materials, Faculty of Physics, University of Vienna, Wien, Austria*

- DP-9P/29 The magnetic and magneto-optical properties of Fe<sub>3</sub>O<sub>4</sub> and NiFe<sub>2</sub>O<sub>4</sub> nanoparticles**  
 Krupa M.M.<sup>1</sup>, Sharay I.V.<sup>1</sup>, Kostishin V.G.<sup>2</sup>, Nureyev V.V.<sup>2</sup>  
<sup>1</sup>*Institute of magnetism NAN and MEN of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*National University of Science and Technology "MISIS", Moscow, Russia*
- DP-9P/30 Ferrofluid Aggregates Long-range Ordering and its Antiviral Applications**  
 Shulyma S.I., Kovalenko V.F., Petrychuk M.V., Tanygin B.M.  
*Faculty of Radiophysics, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
- DP-9P/31 Magnetic transitions in FeGa<sub>2</sub>O<sub>4</sub> nanoparticles observed by Mössbauer spectroscopy**  
 Gervits N.E.<sup>1</sup>, Lyubutin I.S.<sup>1</sup>, Gippius A.A.<sup>1,2</sup>, Chun-Rong Lin<sup>3</sup>, Korotkov N.Yu.<sup>1</sup>  
<sup>1</sup>*A.V.Shubnikov Institute of Crystallography Russian Academy of Sciences, Moscow, Russia*  
<sup>2</sup>*Lomonosov Moscow State University, Moscow, Russia*  
<sup>3</sup>*Institute of Nanotechnology and Department of Mechanical Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan*
- DP-9P/32 Photoconductivity of nanoisland metal films**  
 Boltaev A.P., Pudonin F.A., Sherstnev I.A.  
*P.N. Lebedev Physical Institute, RAS, Moscow, Russia*
- DP-9P/33 Composites based on gold nanoparticles**  
 Biryukova M.I., Popkov O.V.  
*Baikov Institute of Metallurgy and Material Sciences Russian Academy of Sciences, Moscow, Russia*
- DP-9P/34 Scanning Tunneling Microscopy of Cu, Ag and Au Nanoformations on the Monocrystalline Surfaces**  
 Karbivskyy V.  
*G.V. Kurdumov Institute of Metal Physics NAS of Ukraine, Kiev, Ukraine*
- DP-9P/35 Composites based on Pd-containing nanoparticles**  
 Yurkov G.Yu.<sup>1</sup>, Biryukova M.I.<sup>1</sup>, Popkov O.V.<sup>1</sup>, Fionov A.S.<sup>2</sup>  
<sup>1</sup>*Baikov Institute of Metallurgy and Material Sciences Russian Academy of Sciences, Moscow, Russia*  
<sup>2</sup>*Kotel'nikov Institute of Radio-engineering and Electronics Russian Academy of Sciences, Moscow, Russia*
- DP-9P/36 Synthesis and spectral study of irradiation induced silver nanoparticles in Ag and Eu double doped silica**  
 Ignatovych M.<sup>1</sup>, Baranyai P.<sup>2</sup>, Khanina O.<sup>1</sup>, and Yashan H.<sup>1</sup>  
<sup>1</sup>*O. Chuiko Institute of Surface Chemistry, NASU, Kyiv*  
<sup>2</sup>*Photoscience Laboratory, BUTE and CRC HAS, Budapest, Hungary*
- DP-9P/37 The electrical properties research of ZrO<sub>2</sub> nanopowder systems**  
 Poltoratskaya A.V.<sup>1</sup>, Shylo A.V.<sup>2</sup>, Doroshkevich A.S.<sup>2</sup>, Saprykina A.V.<sup>2</sup>, Konstantinova T.E.<sup>2</sup>  
<sup>1</sup>*Donetsk National University, Donetsk, Ukraine*  
<sup>2</sup>*Donetsk Institute for Physics and Engineering named after O.O. Galkin of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*

- DP-9P/38 Formation of metastable nanocrystalline bcc-phase in the rapidly quenched alloys of the system La-Ag**  
Lysenko A.B., Kalinina T.V., Kazantseva A.A., Zagorulko I.V.  
*Dniprodzerzhinsk State Technical University, Dniprodzerzhinsk, Ukraine*
- DP-9P/39 NLO polymeric material based on DAST nanocrystals: technology and properties**  
Burunkova J.A., Fokina M.I.  
*Saint-Petersburg State University of Information Technologies, Mechanics and Optics, Saint-Petersburg, Russia*
- DP-9P/40 Influence of nanoparticles on the velocity of phase transitions in solutions of stimuli-sensitive polymers**  
Suleimenov I.E.<sup>1</sup>, Semenyakin N.V.<sup>2</sup>, Sedlakova Z.<sup>3</sup>, Panchenko S.V.<sup>1,4</sup>, Mun G.A.<sup>4</sup>, Suleimenov E.N.<sup>2</sup>, Shaltykova D.B.<sup>1</sup>  
<sup>1</sup>*Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan*  
<sup>2</sup>*Kakhstan-British Technical University, Almaty, Kazakhstan*  
<sup>3</sup>*Institute of Macromolecular Chemistry of Academy of Sciences of the Czech Republic, Praha, Czech Republic*  
<sup>4</sup>*Al-Faraby Kazakh National University, Almaty, Kazakhstan*
- DP-9P/41 Using of nanoparticles in new keyboards for mobile phones**  
Suleimenov I.E.<sup>1</sup>, Panchenko S.V.<sup>1,2</sup>, Mun G.A.<sup>2</sup>, Shaltykova D.B.<sup>1</sup>, Obukhova P.V.<sup>3</sup>  
<sup>1</sup>*Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan*  
<sup>2</sup>*Al-Farabi Kazakh National University, Almaty, Kazakhstan*  
<sup>3</sup>*Kazakh National Technical University, Almaty, Kazakhstan*
- DP-9P/42 Synthesis of oxide ceramic coatings with good adhesion to the surface of a titanium base, the approach of oxidative design**  
Vinogradov D.N., Kuznetsov K.B., Zufman V.Yu., Shashkeev K.A.  
*Baikov Institute of Metallurgy and Material Science, Moscow, Russia*
- DP-9P/43 Formation of nanodisperse tungsten coatings with microplasma spraying**  
Korduban A.M., Kryshchuk T.V.  
*G.V. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*
- DP-9P/44 Oxidative constructing as a way to obtain functional ceramic materials based on vanadium-group metal nitrides**  
Shokodko A.V., Ashmarin A.A., Ogarkov A.I.  
*A. Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow, Russia*
- DP-9P/45 Synthesis of yttrium aluminum garnet nanopowders for ceramics applicable for solid-state lasers**  
Kolomietc T.Yu., Tel'Nova G.B., Konovalov A.A., Solntsev K.A.  
*Baikov Institute of Metallurgy and Materials Science, Moscow, Russia*
- DP-9P/46 Step-terrace structure on the vicinal (0001) surface of sapphire substrates**  
Vovk E.A., Kryvonogov S.I., Budnikov A.T.  
*STC «Institute for Single Crystals» NAS of Ukraine, Kharkiv, Ukraine*

- DP-9P/47 Synthesis of complex additives based on SiO<sub>2</sub> nanoparticles to modify of cement stone**  
 Artamonova O.V., Sergutkina O.R., Shvedova M.A.  
*Voronezh State University of Architecture and Civil Engineering, Voronezh, Russian Federation*
- DP-9P/48 Evolution of nano modified hydration systems hardening**  
 Artamonova O.V., Chernyshov E.M.  
*Voronezh State University of Architecture and Civil Engineering, Voronezh, Russian Federation*
- DP-9P/49 Diffusion growth mechanism of thread-like nanocrystals with participation of atoms, excited in acts of adsorption**  
Bazhyn A.I.<sup>1</sup>, Grankin M.V.<sup>2</sup>, Grankin V.P.<sup>2</sup>  
<sup>1</sup>*Donetsk National University, Department of Nanophysics, Donetsk, Ukraine*  
<sup>2</sup>*Priazovsky State Technical University, Department of Computer Science, Mariupol, Ukraine*
- DP-9P/50 Fabrication of nanoporous silicon layers by Ag-ion implantation**  
 Kavetsky T.S.<sup>1</sup>, Nuzhdin V.I.<sup>2</sup>, Valeev V.F.<sup>2</sup>, Ocín Y.N.<sup>3</sup>,  
 Trifonov A.A.<sup>3</sup>, Stepanov A.L.<sup>2,3</sup>  
<sup>1</sup>*Drohobych Ivan Franko State Pedagogical University, Drohobych, Ukraine*  
<sup>2</sup>*Kazan Physical-Technical Institute, RAS, Kazan, Russia*  
<sup>3</sup>*Kazan Federal University, Kazan, Russia*

**15.00-19.00****Oral Session DC.****Section 9. Nanophysics & Nanotechnologies for Functional Materials**

**Chairmen:** Kanaev A., Varyuchin V.

- DC-9L/1 Nanoparticulate composites for photonic and environmental applications (Invited)**  
 Amamra M., Ben Amar M., Traore M., Kayser M., Chhor K., Kanaev A.  
*Laboratoire des Sciences des Procédés et des Matériaux, CNRS, Université Paris 13, Villetaneuse, France*
- DC-9L/2 Light emitting Si-based nanostructures: design, fabrication and characterization (Invited)**  
 Khomenkova L.<sup>1</sup>, Labbe C.<sup>2</sup>, Portier X.<sup>2</sup>, Gourbilleau F.<sup>2</sup>  
<sup>1</sup>*V. Lashkaryov Institute of Semiconductor Physics at NASU, Kyiv, Ukraine*  
<sup>2</sup>*CIMAP, Caen, France*
- DC-9L/3 Modeling of evolution processes with the help of nanostructured systems (Invited)**  
Suleimenov I.E.<sup>1</sup>, Panchenko S.V.<sup>1,2</sup>  
<sup>1</sup>*Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan*  
<sup>2</sup>*Al-Faraby Kazakh National University, Almaty, Kazakhstan*
- DC-9O/1 Nanoparticulate Ag-TiO<sub>2</sub> plasmacatalytic media**  
 Jia Zixian, Ben Amar Mounir, Duten Xavier, Kanaev Andrei  
*Université Paris 13, Sorbonne Paris Cité, Villetaneuse, France*

- DC-90/2** **Effects of solid loading and Si<sub>3</sub>N<sub>4</sub> hollow micro-sphere content on the properties of the porous Si<sub>3</sub>N<sub>4</sub> ceramics prepared by aqueous gelcasting**  
Wu Jia-Min<sup>1</sup>, Zhang Xiao-Yan<sup>1</sup>, Yang Jin-Long<sup>1</sup>, Huang Yong<sup>1</sup>, Zeng Qing-Chuan<sup>2</sup>  
<sup>1</sup>State Key Lab of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing, China  
<sup>2</sup>School of Energy Science and Engineering, University of Electronic Science and Technology of China, Chengdu, China
- DC-90/3** **Field-controlled domain wall pinning in ferromagnetic nanowire-nanoparticles systems**  
Mironov V.L., Ermolaeva O.L., Skorohodov E.V.  
*Institute for physics of microstructures RAS, Nizhniy Novgorod, Russia*
- DC-90/4** **Crystallization of amorphous films according to “in situ” electron microscopy data**  
Bagmut A.G.  
*National Technical University “KhPI”, Kharkov, Ukraine*
- DC-90/5** **Electron microscopy, magnetic resonance and Raman study of the nanostructured natural carbonaceous material shungite**  
Konchits A.A.<sup>1</sup>, Shanina B.D.<sup>1</sup>, Valakh M.Ya.<sup>1</sup>, Yanchuk I.B.<sup>1,2</sup>, Yukhymchuk V.O.<sup>1</sup>, Yefanov A.V.<sup>1</sup>, Krasnovyd S.V.<sup>1</sup>, Skoryk M.A.<sup>2</sup>  
<sup>1</sup>*Institute of Semiconductor Physics of the NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*Nanomedtech LLC, Kyiv, Ukraine*
- DC-90/6** **Preparation of the composite material based on nanoporous SiO<sub>2</sub> doped squaraine dye for optical limiting materials**  
Plaksii A.G., Bezkravnaya O.N., Pritula I.M.  
*Institute for Single Crystals, SSI “Institute for Single Crystals”, NASU, Kharkiv, Ukraine*
- DC-90/7** **Formation of superlattices by the optical discharge**  
Dovzhenko A.Yu., Merzhanov A.G., Rumanov E.N.  
*RAS Institute for Structural Macrokinetics & Material Science, Chernogolovka Moscow oblast, Russia*
- DC-90/8** **Mössbauer effect and structure of MgO-Fe nanocomposite**  
Nadutov V.M., Voynash V.Z., Perekos A.O., Svystunov Ye.O.  
*G.V. Kurdyumov Institute for Metal Physics, N.A.S. of Ukraine, Kyiv, Ukraine*

**15.00-19.00****Poster Session DQ1.****Section 4. Plasmonics & Photonics. Electro & Magneto-optic Materials**

**Chairmen:** Kimel A., Pavlov V.

- DQ1-4P/1** **Switching of Magnetic Films by Femtosecond Laser Pulses and Control Spin Current**  
Krupa M.M.  
*Institute of Magnetism NAS and MES of Ukraine, Kiev*

- DQ1-4P/2 Lattice-Mediated Optical Control of Magnetic Anisotropy in FeBO<sub>3</sub>**  
Afanasiev D.<sup>1</sup>, Razdolski I.<sup>1</sup>, Bolotin D.<sup>2</sup>, Yagupov S.V.<sup>2</sup>, Skibinsky K.M.<sup>2</sup>,  
 Strugatsky M.B.<sup>2</sup>, Kirilyuk A.<sup>1</sup>, Rasing Th.<sup>1</sup>, and Kimel A.V.<sup>1</sup>  
<sup>1</sup>*Radboud University Nijmegen, Nijmegen, the Netherlands*  
<sup>2</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- DQ1-4P/3 Laser-induced effects in ferrimagnetic junctions**  
Krupa M.M., Korostil A.M.  
*Institute of Magnetism NASU, Kyiv, Ukraine*
- DQ1-4P/4 Soliton states in a linear/non-linear medium with rectangular potential wells**  
 Gerasimchuk V.S.<sup>1</sup> and Gerasimchuk I.V.<sup>2</sup>  
<sup>1</sup>*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine*  
<sup>2</sup>*Institute of Magnetism, National Academy of Sciences of Ukraine and Ministry of Education and Science of Ukraine, Kyiv, Ukraine*
- DQ1-4P/5 Localization of soliton states at a plane defect layer with nonlinear properties**  
 Gerasimchuk I.V.  
*Institute of Magnetism, National Academy of Sciences of Ukraine and Ministry of Education and Science of Ukraine, Kyiv, Ukraine*
- DQ1-4P/6 Nonreciprocal light scattering by toroidal magnetic systems**  
 Udalov O.G., Sapozhnikov M.V., Karashtin E.A., Gribkov B.A.,  
 Gusev S.A., Skorohodov E.V., Rogov V.V., Klimov A.Yu., Fraerman A.A.  
*Institute for physics of microstructures, RAS, Nizhny Novgorod, Russia*
- DQ1-4P/7 Polariton dispersion dependence on concentration of admixture in superlattice of imperfect coupled microresonators**  
 Alodjants A.P.<sup>1</sup>, Rumyantsev V.V.<sup>2</sup>, Fedorov S.A.<sup>2</sup>, Proskurenko M.V.<sup>2</sup>  
<sup>1</sup>*Vladimir State University, Vladimir, Russia*  
<sup>2</sup>*A.A. Galkin Donetsk Physico-Technical Institute of NASU, Donetsk, Ukraine*
- DQ1-4P/8 Photomagnetic medium as the magnetic field sensor**  
 Tychko O.V.  
*Taras Shevchenko Kiev National University, Department of Radiophysics, Kiev, Ukraine*
- DQ1-4P/9 Liquid Crystal Waveguide Structures**  
 Melnikova E.A., Komar A.A., Tolstik A.L., Kabanova O.S., Alenskaya I.I.  
*Laser Physics and Spectroscopy Department, Belarusian State University, Minsk, Belarus*
- DQ1-4P/10 Electrically-controlled polarization structures based on liquid crystals and photoaligning polymers**  
 Tolstik A.L., Kazak A.A., Melnikova E.A.  
*Belarusian State University, Minsk, Belarus*
- DQ1-4P/11 Polarization switching in ferroelectrics: local studies by nonlinear-optical confocal microscopy**  
 Brekhov K.A., Lavrov S.D., Sherstyuk N.E., Mishina E.D.  
*Moscow State Technical University MIREA, Moscow, Russia*

- DQ1-4P/12 Second harmonic generation microscopy of the domain gratings fabricated on the nonpolar Y-surface of LiNbO<sub>3</sub> crystal by electron beam irradiation**  
Lavrov S.D.<sup>1</sup>, Mishina E.D.<sup>1</sup>, Kokhanchik L.S.<sup>2</sup>, Volk T.R.<sup>3</sup>  
<sup>1</sup>*Moscow State Technical University of Radioengineering, Electronics and Automation, Moscow, Russia*  
<sup>2</sup>*Institute of Microelectronics Technology and High Purity Materials, Chernogolovka, Russia*  
<sup>3</sup>*A.V. Shubnikov Institute of Crystallography, Moscow, Russia*
- DQ1-4P/13 Magneto-optical properties of composite GaMnAs layers deposited by pulse laser ablation**  
Gan'shina E.A.<sup>1</sup>, Golik L.L.<sup>2</sup>, Kovalev V.I.<sup>2</sup>, Kun'kova Z.E.<sup>2</sup>, Markin Yu.V.<sup>2</sup>, Novikov A.I.<sup>1</sup>, Danilov Yu.A.<sup>3</sup>, Vikhrova O.V.<sup>3</sup>, and Zvonkov B.N.<sup>3</sup>  
<sup>1</sup>*Department of Physics, Moscow State University, Moscow, Russia*  
<sup>2</sup>*Institute of Radioengineering and Electronics, RAS, Fryazino, Russia*  
<sup>3</sup>*Nizhny Novgorod State University, Nizhny Novgorod, Russia*
- DQ1-4P/14 Faraday rotation and magnetization in terbium iron borate**  
Bedarev V.A.<sup>1</sup>, Pashchenko M.I.<sup>1</sup>, Savina Yu.O.<sup>1</sup>, Pashchenko V.O.<sup>1</sup>, Bezmaternykh L.N.<sup>2</sup>, Temerov V.L.<sup>2</sup>  
<sup>1</sup>*B. Verkin Institute for Low Temperature Physics and Engineering, National Academy of Sciences of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*L.V. Kirensky Institute of Physics, Siberian Branch of Russian Academy of Sciences, Krasnoyarsk, Russian Federation*
- DQ1-4P/15 The study of the linear electro-optic effect in thin films of BST**  
Brekhov K.A., Lavrov S.D., Sherstyuk N.E., Mishina E.D.  
*Moscow State Technical University MIREA, Moscow, Russia*
- DQ1-4P/16 Electro-optical and nonlinear-optical properties of g-glycine single crystals and microstructures**  
Ilyin N.A., Kudryavtsev A.V.  
*Moscow State Technical University MIREA, Moscow, Russia*
- DQ1-4P/17 Optical and nonlinear optical properties of new KDP:Al<sub>2</sub>O<sub>3</sub>·nH<sub>2</sub>O composite material**  
Pritula I.<sup>1</sup>, Kosinova A.<sup>1</sup>, Kolybaeva M.<sup>1</sup>, Yatsyna V.<sup>2</sup>, Kopylovsky M.<sup>2</sup>, Gayvoronsky V.<sup>2</sup>  
<sup>1</sup>*Institute for Single Crystals NASU, Kharkiv, Ukraine*  
<sup>2</sup>*Institute of Physics NASU, Kyiv, Ukraine*
- DQ1-4P/18 Magneto-optical effects in single-crystalline spinels**  
Sukhorukov Yu.P.<sup>1</sup>, Telegin A.V.<sup>1</sup>, Naumov S.V.<sup>1</sup>, Bebenin N.G.<sup>1</sup>, Patrakov E.I.<sup>1</sup>, Fedorov V.A.<sup>2</sup>, Menschikova T.K.<sup>2</sup>  
<sup>1</sup>*Institute of Metal Physics UD of RAS, Ekaterinburg, Russia*  
<sup>2</sup>*Kurnakov Institute of General and Inorganic Chemistry of RAS, Moscow, Russia*
- DQ1-4P/19 Temperature dependence of magnetic circular dichroism in DyFe<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub> and ErFe<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub> crystals**  
Sukhachev A.L., Malakhovskii A.V., Sokolov V.V., Zabluda V.N., Gudim I.A.  
*L.V. Kirensky Institute of Physics, SB RAS, Krasnoyarsk, Russia*

- DQ1-4P/20 On nature of broadband background in spectra of Raman scattering of light**  
Shermatov E.N., Shermatov B.N., Juraev M.  
*Faculty of Physics, Samarkand State University, Samarkand, Uzbekistan*
- DQ1-4P/21 Peculiarities of photochromic effect in Bi<sub>2</sub>TeO<sub>5</sub> doped single crystals**  
Sadovska L.Ya., Agarkov K.V.  
*Dnipropetrovsk National University, Dnipropetrovsk, Ukraine*
- DQ1-4P/22 Electrochromism in Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub> single crystals doped with Co**  
Bochkova T.M.  
*Dnipropetrovsk National University, Dnipropetrovsk, Ukraine*
- DQ1-4P/23 The normalization of magneto-optic measurements of magnetic characteristics of printing materials**  
Agalidi Y.S., Kozhukhar P.V., Leviy S.V., Machnyev O.M., Ponomarev S.L.  
*National Technical University of Ukraine "KPI", Kiev, Ukraine*
- DQ1-4P/24 Microcavity 1D-MPC: making the best structures**  
Berzhansky V.N.<sup>1</sup>, Karavainikov A.V.<sup>1</sup>, Prokopov A.R.<sup>1</sup>,  
Shaposhnikov A.N.<sup>1</sup>, Mikhailova T.V.<sup>1</sup>, Kharchenko Yu.M.<sup>2</sup>,  
Lukienko I.M.<sup>2</sup>, Miloslavskaya O.V.<sup>2</sup>, Kharchenko M.F.<sup>2</sup>, Salyuk O.Y.<sup>3</sup>  
<sup>1</sup>*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Institute for Low Temperature Physics and Engineering of NASU, Kharkov, Ukraine*  
<sup>3</sup>*Institute of Magnetism NASU and MESU, Kiev, Ukraine*
- DQ1-4P/25 Faraday and Kerr Effects in Microcavity 1D-MPCs with Double Layer Bi: YIG Films**  
Berzhansky V.N.<sup>1</sup>, Shaposhnikov A.N.<sup>1</sup>, Karavainikov A.V.<sup>1</sup>,  
Prokopov A.R.<sup>1</sup>, Mikhailova T.V.<sup>1</sup>, Kharchenko Yu.M.<sup>2</sup>, Lukienko I.M.<sup>2</sup>,  
Miloslavskaya O.V.<sup>2</sup>, Kharchenko M.F.<sup>2</sup>, Golub V.O.<sup>3</sup>  
<sup>1</sup>*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Institute for Low Temperature Physics and Engineering of NASU, Kharkov, Ukraine*  
<sup>3</sup>*Institute of Magnetism NASU and MESU, Kiev, Ukraine*
- DQ1-4P/26 Magnetic Circular Dichroism in Microcavity 1D-MPC with Double Layer Iron Garnet**  
Berzhansky V.N.<sup>1</sup>, Shaposhnikov A.N.<sup>1</sup>, Mikhailova T.V.<sup>1</sup>,  
Karavainikov A.V.<sup>1</sup>, Prokopov A.R.<sup>1</sup>, Kharchenko Yu.M.<sup>2</sup>, Lukienko I.M.<sup>2</sup>,  
Miloslavskaya O.V.<sup>2</sup>, Kharchenko M.F.<sup>2</sup>  
<sup>1</sup>*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Institute for Low Temperature Physics and Engineering of NASU, Kharkov, Ukraine*
- DQ1-4P/27 Morphology of Bi: YIG films crystallized at different heating rates**  
Berzhansky V.N.<sup>1</sup>, Shaposhnikov A.N.<sup>1</sup>, Prokopov A.R.<sup>1</sup>,  
Karavainikov A.V.<sup>1</sup>, Mikhailova T.V.<sup>1</sup>, Baryakhtar V.G.<sup>2</sup>, Sharay I.V.<sup>2</sup>,  
Golub V.O.<sup>2</sup>, Salyuk O.Y.<sup>2</sup>  
<sup>1</sup>*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Institute of Magnetism, NASU and MESU, Kiev, Ukraine*

- DQ1-4P/28 Magneto-optical manifestation of the quantum size effect in the Cu(111)/Co multilayered nanofilms**  
Lukienko I.N.<sup>1</sup>, Kharchenko N.F.<sup>1</sup>, Savytskiy V.N.<sup>1</sup>, Khrustalev V.M.<sup>1</sup>, Stetsenko A.N.<sup>2</sup>, Zorchenko V.V.<sup>2</sup>  
<sup>1</sup>*B. Verkin Institute for Low Temperature Physics and Engineering of the NASU, Kharkiv, Ukraine*  
<sup>2</sup>*National Technical University "Kharkiv Politechnical Institute", Kharkiv Ukraine*
- DQ1-4P/29 The MO rotator model for the optical switches of multiwave light flux in fiber optic communications networks**  
Basiladze G.D., Dolgov A.I., Prokopov A.R., Shumilov A.G.  
*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- DQ1-4P/30 Magneto-optical effects in the integrated module fiber-optic switch**  
Basiladze G.D., Dolgov A.I.  
*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- DQ1-4P/31 Magneto-optic figure of merit in Be-doped garnet LPE films**  
Nedviga A.S., Prokopov A.R., Shumilov A.G., Vishnevskii V.G.  
*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- DQ1-4P/32 Introscopy of linear defects by use of MOEC method**  
Berzhansky V., Lugovs`kyy N., Vishnevskii V., Pankov F., Prokopov A.  
*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- DQ1-4P/33 Influence of Plasmonic Interactions on Luminescence Efficiency in CdSe/CdS Hybrid and Ag Nanoparticle / Silica Glass**  
Shamilov R.R.<sup>1</sup>, Stepanov A.L.<sup>2</sup>, Galyametdinov Yu.G.<sup>1,2</sup>  
<sup>1</sup>*Kazan National Research Technological University, Kazan, Russia*  
<sup>2</sup>*Kazan Physical-Technical Institute, RAS, Kazan, Russia*
- DQ1-4P/34 Effect of the substrate orientation on magnetization and photoluminescence in InGaAs/GaAs/GaAs:Mn heterostructures**  
Dmitriev A.I., Koplak O.V., Ovanesyan N.S., Morgunov R.B.  
*Institute of Problems of Chemical Physics RAS, Chernogolovka, Russia*
- DQ1-4P/35 Visible and Terahertz Magneto-optics in Gold and Silver Low-Dimensional Objects**  
Zabluda V.N.<sup>1</sup>, Sokolov A.E.<sup>1</sup>, Ovchinnikov S.G.<sup>1</sup>, Knyazev B.A.<sup>2</sup>, Gerasimov V.V.<sup>2</sup>, Michlin Yu.L.<sup>3</sup>, Veshnyakova E.A.<sup>3</sup>, Zubavichus Y.V.<sup>4</sup>, Kalsin A.M.<sup>5</sup>  
<sup>1</sup>*Kirensky Institute of Physics, Krasnoyarsk, Russia*  
<sup>2</sup>*Institute of Nuclear Physics, Novosibirsk, Russia*  
<sup>3</sup>*Institute of Chemistry and Chemical Technology SB RAS, Krasnoyarsk, Russia*  
<sup>4</sup>*National Research Centre "Kurchatov Institute", Moscow, Russia*  
<sup>5</sup>*Nesmeyanov Institute of Organoelement Compounds, RAS, Moscow, Russia*
- DQ1-4P/36 Polariton Velocity in Bigyrotropic Medium**  
Dzedolik I.V., Karakchieva O.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*

**DQ1-4P/37 Impact of surface chemical composition of porous silicon on cubic nonlinear-optical response**

Gayvoronsky V.Ya.<sup>1</sup>, Yatsyna V.O.<sup>1</sup>, Kopylovsky M.A.<sup>1</sup>, Brodyn M.S.<sup>1</sup>, Oliinyk B.V.<sup>2</sup>, Alekseev S.A.<sup>2</sup>, Lysenko V.<sup>3</sup>

<sup>1</sup>*Institute of Physics NASU, Kiev, Ukraine*

<sup>2</sup>*Kiev National Taras Shevchenko University, Kiev, Ukraine*

<sup>3</sup>*University of Lyon, Nanotechnology Institute of Lyon, INSA de Lyon, France*

**DQ1-4P/38 Nonlinear optical response of silicon nanowire arrays at wavelength of 1064 nm**

Gayvoronsky V.Ya.<sup>1</sup>, Brodyn M.S.<sup>1</sup>, Popov A.S.<sup>1</sup>, Yatsyna V.O.<sup>1</sup>, Timoshenko V.Yu.<sup>2</sup>

<sup>1</sup>*Institute of Physics NASU, Kiev, Ukraine*

<sup>2</sup>*Faculty of Physics, M.V. Lomonosov Moscow State University, Russia*

**DQ1-4P/39 Two-state positron trapping model in application to GeS<sub>2</sub>-Ga<sub>2</sub>S<sub>3</sub> chalcogenide glasses**

Ingram A.<sup>1</sup>, Klym H.<sup>2</sup>, Shpotyuk O.<sup>3</sup>

<sup>1</sup>*Opole University of Technology, Opole, Poland*

<sup>2</sup>*Lviv Polytechnic National University, Lviv, Ukraine*

<sup>3</sup>*Scientific Research Company "Carat", Lviv, Ukraine*

**15.00-19.00 Poster Session DQ2.****Section 2. Hard & Soft Magnetic Materials**

**Chairmen:** Nadutov V., Ekomasov E.

**DQ2-2P/1 Effect of combined SPD on Internal friction in Invar Fe-Ni-C alloy**

Nadutov V.M.<sup>1</sup>, Vashchuk D.L.<sup>1</sup>, Davidenko A.A.<sup>2</sup>, Pilipenko A.N.<sup>2</sup>

<sup>1</sup>*G.V. Kurdyumov Institute for Metal Physics of NASU, Kyiv, Ukraine*

<sup>2</sup>*O.O. Galkin Institute for Physics and Engineering of NASU, Donetsk, Ukraine*

**DQ2-2P/2 Effect of high pressure treatment on structure and properties of Invar Fe-35%Ni alloy**

Nadutov V.M.<sup>1</sup>, Vashchuk D.L.<sup>1</sup>, Volosevich P.Yu.<sup>1</sup>, Beloshenko V.A.<sup>2</sup>, Spuskanyuk V.Z.<sup>2</sup>, Davidenko A.A.<sup>2</sup>

<sup>1</sup>*G.V. Kurdyumov institute for Metal Physics of NASU, Kyiv, Ukraine*

<sup>2</sup>*O.O. Galkin Institute for Physics and Engineering of NASU, Donetsk, Ukraine*

**DQ2-2P/3 Effect of Al content on structure and properties of the high entropy alloys Al<sub>x</sub>FeCoNiCuCr**

Nadutov V.M., Makarenko S.Yu., Svystunov Ye.O.

*G.V. Kurdyumov Institute for Metal Physics of NASU, Kyiv, Ukraine*

**DQ2-2P/4 Estimation of the diffusion coefficients governing thermal stability of amorphous metallic alloys**

Kovalenko O.V.<sup>1</sup>, Rassolov S.G.<sup>1</sup>, Popov V.V.<sup>1</sup>, Maksimov V.V.<sup>1</sup>, Nosenko V.K.<sup>2</sup>

<sup>1</sup>*O.O. Galkin Institute of Physics & Engineering of the NASU, Donetsk, Ukraine*

<sup>2</sup>*G.V. Kurdyumov Institute for Metal Physics of NASU, Kyiv, Ukraine*

- DQ2-2P/5 Effect of thermal treatment on GMI profile of Co-rich microwires**  
Popov V.V.<sup>1</sup>, Khatsaiuk V.V.<sup>1</sup>, Berzhansky V.N.<sup>1</sup>, Qin F.X.<sup>2</sup>,  
Gomonay H.V.<sup>3</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*ID Nanomaterials Group, National Institute for Material Science, Sengen, Tsukuba, Ibaraki, Japan*  
<sup>3</sup>*National Technical University of Ukraine 'KPI', Kyiv, Ukraine*
- DQ2-2P/6 Comparative study of the GMI effect in Fe- and Co-rich glass-coated microwires in 0.1-1.2 GHz and 8-11 GHz frequency bands**  
Khatsaiuk V.V.<sup>1</sup>, Popov V.V.<sup>1</sup>, Torkunov A.V.<sup>2</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*AmoTec SRL, Republic of Moldova*
- DQ2-2P/7 Glass thickness and composition influence on magnetic properties and domain wall dynamics of amorphous ferromagnetic glass-covered microwires**  
Chichay K.<sup>1</sup>, Rodionova V.<sup>1,2</sup>, Ipatov M.<sup>3</sup>, Zhukova V.<sup>3</sup>, Zhukov A.<sup>3,4</sup>  
<sup>1</sup>*Immanuel Kant Baltic Federal University, Kaliningrad, Russia*  
<sup>2</sup>*Faculty of Physics, Moscow State University, Moscow, Russia*  
<sup>3</sup>*Dpto. Fisica de Materiales, Fac. Quimicas, UPV/EHU, San Sebastian, Spain*  
<sup>4</sup>*IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*
- DQ2-2P/8 The iron nanowires with diameters up to 12 Å. Ab-initio calculations**  
Boutko V.G., Gusev A.A., Shevtsova T.N., and Pashkevich Yu.G.  
*A.A. Galkin Donetsk Institute for Physics and Engineering of the NASU, Donetsk, Ukraine*
- DQ2-2P/9 About thermofluctuational stability of the magnetization nanowires**  
Ivanov A.A.<sup>1</sup>, Orlov V.A.<sup>2</sup>, Orlova I.N.<sup>2</sup>  
<sup>1</sup>*Siberian Federal University, Krasnoyarsk, Russia*  
<sup>2</sup>*Krasnoyarsk State Pedagogical University after V.P. Astaf'ev, Krasnoyarsk, Russia*
- DQ2-2P/10 Influence of a temperature and mechanical tensile stresses on the impedance of the amorphous Co-based ribbons**  
Semirov A.V.<sup>1</sup>, Derevyanko M.S.<sup>1</sup>, Moiseev A.A.<sup>1</sup>, Bukreev D.A.<sup>1</sup>,  
Lukshina V.A.<sup>2</sup>, Kurlyandskaya G.V.<sup>3,4</sup>  
<sup>1</sup>*East-Siberian State Academy of Education, Irkutsk, Russia*  
<sup>2</sup>*Ural Federeal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia*  
<sup>3</sup>*Institute of Metal Physics UD RAS, Ekaterinburg, Russia*  
<sup>4</sup>*University of the Basque Country UPV-EHU, Bilbao, Spain*
- DQ2-2P/11 The thermal and stress effect on structure and physical properties in "Finemet" type glass-coated microwires**  
Bashev V.<sup>1</sup>, Derun A.<sup>1</sup>, Kutseva N.<sup>1</sup>, Larin V.<sup>2</sup>  
<sup>1</sup>*Dnipropetrovsk National University, Dnipropetrovsk, Ukraine*  
<sup>2</sup>*MFTI, Kishinev, Moldova*

## Friday, October 4

**9.00-11.00**

**Oral Session EA.**

### **Section 5. Piezo & Magnetoelectric Materials. Multiferroics**

**Chairmen:** Pernod P., Preobrazhensky V.

- EA-50/1 Spin modulated structures in multiferroic films (*Invited*)**  
 Pyatakov A.P.<sup>1</sup>, Zvezdin A.K.<sup>2</sup>, Pyatakova Z.A.<sup>3</sup>  
<sup>1</sup>*M.V. Lomonosov Moscow State University, Moscow, Russia*  
<sup>2</sup>*A.M. Prokhorov General Physics Institute, Moscow, Russia*  
<sup>3</sup>*Gubkin Russian state university of oil and gas, Moscow, Russia*
- EA-50/2 MagnetoElectric Random Access Memory (MELRAM) (*Invited*)**  
 Tiercelin N.<sup>1</sup>, Dusch Y.<sup>1</sup>, Klimov A.<sup>1,2</sup>, Giordano S.<sup>1</sup>, Preobrazhensky V.<sup>1,3</sup>,  
 and Pernod P.<sup>1</sup>  
*Joint International Laboratory LIA LICS/LEMAC:*  
<sup>1</sup>*Institute of Electronics, Microelectronics and Nanotechnology (IEMN UMR CNRS 8520) PRES Lille North of France, ECLille, Villeneuve d'Ascq Cedex, France*  
<sup>2</sup>*V.A. Kotel'nikov Institute of Radioengineering and Electronics, Moscow, Russia*  
<sup>3</sup>*Wave Research Center, A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*
- EA-50/3 Guided acoustic wave micro-devices based on (00.2) AlN on (111) TiN buffer layer (*Invited*)**  
 Talbi A.<sup>1</sup>, Soltani A.<sup>1</sup>, Bou Matar O.<sup>1</sup>, Gerbedoen J.C.<sup>1</sup>, Bassam A.<sup>2</sup>, Patriarche G.<sup>3</sup>, De Jaeger J.C.<sup>1</sup>, Pernod P.<sup>1</sup>, Preobrazhensky V.L.<sup>1,4</sup>  
<sup>1</sup>*LIA LEMAC-LICS, IEMN UMR CNRS 8520, ECLille, University Lille 1, France*  
<sup>2</sup>*Atomic Energy Commission Syrian, Damascus, Syrian Arab Republic*  
<sup>3</sup>*LPN-CNRS, UPR20, Route de Nozay, Marcoussis, France*  
<sup>4</sup>*LIA LEMAC-LICS, Wave Research Center, GPI RAS, Moscow, Russia*
- EA-50/4 Guided acoustic wave properties in In-plane c-axis ZnO films and microstructures**  
 Takayanagi S.<sup>1</sup>, Talbi A.<sup>2</sup>, Bou Matar O.<sup>2</sup>, Tiercelin N.<sup>2</sup>, Matsukawa M.<sup>1</sup>, Pernod P.<sup>2</sup>, Preobrazhensky V.L.<sup>2,3</sup>  
<sup>1</sup>*Graduate School of Science and Engineering, Doshisha University, Kyoto, Japan*  
<sup>2</sup>*LIA LEMAC-LICS, IEMN UMR CNRS 8520, ECLille, University Lille 1, France*  
<sup>3</sup>*LIA LEMAC-LICS, Wave Research Center, GPI RAS, Moscow, Russia*
- EA-50/5 Nonlinear magnetoelectric effects in ferromagnetic-piezoelectric composite structures**  
 Fetisov Y.K., Burdin D.A., Chashin D.V., and Economov N.A.  
*Moscow State Technical University of Radio Engineering, Electronics and Automation, Moscow, Russia*

- EA-50/6 Strain-mediated effects in (La,Ca)MnO<sub>3</sub>/BaTiO<sub>3</sub> heterostructures (*Invited*)**  
Tovstolytkin A.I.<sup>1</sup>, Podyalovskii D.I.<sup>1</sup>, Moya X.<sup>2</sup>, Hueso L.E.<sup>3,4</sup>,  
 Maccherozzi F.<sup>5</sup>, Ducati C.<sup>2</sup>, Phillips L.C.<sup>2</sup>, Ghidini M.<sup>2,6</sup>, Hovorka O.<sup>3</sup>,  
 Berger A.<sup>3</sup>, Vickers M.E.<sup>2</sup>, Defay E.<sup>2,7</sup>, Dhesi S.S.<sup>5</sup>, and Mathur N.D.<sup>2</sup>  
<sup>1</sup>*Institute of Magnetism, Kyiv, Ukraine*  
<sup>2</sup>*Department of Materials Science, University of Cambridge, Cambridge, UK*  
<sup>3</sup>*CIC nanoGUNE Consolider, Donostia - San Sebastian, Spain*  
<sup>4</sup>*IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*  
<sup>5</sup>*Diamond Light Source, Chilton, Didcot, Oxfordshire, UK*  
<sup>6</sup>*Department of Physics, University of Parma, Parma, Italy*  
<sup>7</sup>*CEA, LETI, Minatec Campus, Grenoble, France*
- EA-50/7 Motion and transformation of domain wall in permalloy nanotape under the pulses of electrical current**  
 Uspenskaya L.S., Iunin Yu.L., Egorov S.V.  
*Institute of Solid State Physics RAS, Chernogolovka, Russia*
- EA-50/8 Magnetoelectric control of light beam**  
 Sohatsky V.P., Kostuk A.D.  
*Taras Shevchenko National University of Kyiv, Ukraine*
- EA-50/9 Space – modulated structures and field induced phase transitions in BiFeO<sub>3</sub> – like multiferroics**  
Gareeva Z.V.<sup>1</sup>, Popkov A.F.<sup>2</sup>, Soloviov S.V.<sup>2</sup>, Zvezdin A.K.<sup>3</sup>  
<sup>1</sup>*Institute of Molecular and Crystal Physics, Russian Academy of Sciences, Ufa, Russia*  
<sup>2</sup>*National Research University of Electronic Technology, Zelenograd, Moscow, Russia*  
<sup>3</sup>*A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*

**11.15-13.30****Oral Session EB.****Section 2. Hard & Soft Magnetic Materials**

**Chairmen:** Bebenin N., Nikitin S.

- EB-2L/1 Magnetic transition and magnetocaloric effect in inhomogeneous ferromagnets (*Invited*)**  
 Bebenin N.G.  
*Institute of Metal Physics, Ural Division of RAS, Ekaterinburg, Russia*
- EB-2L/2 New magnetocaloric materials based on RNiH hydrides (*Invited*)**  
Nikitin S.A.<sup>1,3</sup>, Smarzhenskaya A.I.<sup>1</sup>, Iwasieczko W.<sup>2</sup>, Verbetsky V.N.<sup>1</sup>  
<sup>1</sup>*Lomonosov Moscow State University, Moscow, Russia*  
<sup>2</sup>*Trzebiatowski Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland*  
<sup>3</sup>*International Laboratory of High Magnetic Fields and Low Temperatures, Wroclaw, Poland*

- EB-2L/3 GMI effect in amorphous microwires in the microwave frequency range (Invited)**  
Popov V.V.<sup>1</sup>, Berzhansky V.N.<sup>1</sup>, Qin F.X.<sup>2</sup>, Gomonay H.V.<sup>3</sup>  
<sup>1</sup>*LIA LEMAC-LICS, Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*ID Nanomaterials Group, National Institute for Material Science, Tsukuba, Ibaraki, Japan*  
<sup>3</sup>*National Technical University of Ukraine "KPI", Kyiv, Ukraine*
- EB-2O/1 Magnetocaloric effect in compounds and composite based on manganese arsenide**  
Pankratov N.Yu.<sup>1</sup>, Mitsiuk V.I.<sup>2</sup>, Smarzhevskaya A.I.<sup>1</sup>, Govor G.A.<sup>2</sup>, Nikitin S.A.<sup>1</sup>  
<sup>1</sup>*Physics Faculty, M.V. Lomonosov Moscow State University, Moscow, Russia*  
<sup>2</sup>*SSPA "Scientific-Practical Materials Research Center of NAS of Belarus", Minsk, Belarus*
- EB-2O/2 Magnetic properties and nanostructure formed under amorphous alloy deformation**  
Aronin A.S., Abrosimova G.E., Matveev D.V., Pershin E.A.  
*Institute of Solid State Physics RAS, Russia*
- EB-2O/3 Evolution of structure of an amorphous phase and specific features of formation of nanostructures at crystallization of metal glasses**  
Abrosimova G.E., Aronin A.S.  
*Institute of Solid State Physics RAS, Chernogolovka, Russia*
- EB-2O/4 Magnetic properties of severe plastic deformed Nd and Sm rare-earth metals**  
Taskaev S.V.<sup>1</sup>, Khovaylo V.V.<sup>2</sup>, Skokov K.P.<sup>3</sup>, Buchelnikov V.D.<sup>1</sup>, Pellenen A.P.<sup>4</sup>, Bataev D.S.<sup>1</sup>, Ulyanov M.N.<sup>1</sup>  
<sup>1</sup>*Chelyabinsk State University, Chelyabinsk, Russia*  
<sup>2</sup>*National University of Science and Technology "MISIS", Moscow, Russia*  
<sup>3</sup>*TU Darmstadt, Darmstadt, Germany*  
<sup>4</sup>*National Research South Ural State University, Chelyabinsk, Russia*
- EB-2O/5 The features of crystal structure and magnetic properties of solid solutions  $\text{BaFe}_{12-x}\text{Al}_x\text{O}_{19}$  ( $x = 0-0.9$ )**  
Turchenko V.O.<sup>1</sup>, Trukhanov A.V.<sup>2</sup>, Bobrikov I.A.<sup>1</sup>, Trukhanov S.V.<sup>2</sup>  
<sup>1</sup>*Joint Institute for Nuclear Research, Dubna, Russia*  
<sup>2</sup>*SSPA "Scientific and Practical Materials Research Centre of NAS of Belarus", RB, Minsk*

**9.00-14.00****Poster Session EP1.****Section 8. Luminescent & Radiation Sensing Materials**

**Chairmen:** Ben Amar M., Pritula I.

- EP1-8P/1 Development, spectral properties and lasing of  $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Nd}^{3+}$  ceramics**  
Kosyanov D.Yu.<sup>1</sup>, Tolmachev A.V.<sup>1</sup>, Yavetskiy R.P.<sup>1</sup>, Nedilko S.G.<sup>2</sup>, Rybak Ya.B.<sup>3</sup>, Voznyy V.L.<sup>4</sup>  
<sup>1</sup>*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>3</sup>*EDAPS-Laser Ltd, Kyiv, Ukraine*  
<sup>4</sup>*Internatrional Scientific Centre "Institute of Applied Optics", Kyiv, Ukraine*

- EP1-8P/2 The epitaxial films of the Ce-doped  $Gd_3(Al_xGa_{1-x})_5O_{12}$  is a new luminescence material**  
Vasil'eva N.V.<sup>1</sup>, Spassky D.A.<sup>2,3</sup>, Randoshkin I.V.<sup>1</sup>, Sokolov V.O.<sup>4</sup>, Plotnichenko V.G.<sup>4</sup>, Khakhalin A.V.<sup>5</sup>, Eganova E.M.<sup>6</sup>, Dudin A.A.<sup>6</sup>  
<sup>1</sup>*Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*  
<sup>2</sup>*Skobeltsyn Institute of Nuclear Physics, Lomonosov Moscow State University, Moscow, Russia*  
<sup>3</sup>*Institute of Physics, University of Tartu, Tartu, Estonia*  
<sup>4</sup>*Fiber Optics Research Center, Russian Academy of Sciences, Moscow, Russia*  
<sup>5</sup>*Physics Department, Lomonosov Moscow State University, Moscow, Russia*  
<sup>6</sup>*Nanotechnology Institute of Microelectronics, Russian Academy of Sciences, Moscow Russia*
- EP1-8P/3 Luminescence of  $Ce^{3+}$ -doped  $Ca_3Sc_2Si_3O_{12}$  – a potential phosphor for LEDs**  
Berezovskaya I.V.<sup>1</sup>, Efryushina N.P.<sup>1</sup>, Voloshinovskii A.S.<sup>2</sup>, Dotsenko V.P.<sup>1</sup>  
<sup>1</sup>*A.V. Bogatsky Physico-Chemical Institute, NASU, Odessa, Ukraine*  
<sup>2</sup>*Ivan Franko National University of Lviv, Lviv, Ukraine*
- EP1-8P/4 Features of the gold films morphology and their impact on the  $Eu^{3+}$  ions luminescence**  
Kozak D.<sup>1</sup>, Nedilko S.G.<sup>1</sup>, Chukova O.<sup>1</sup>, Rozouvan S.<sup>1</sup>, Sherbatskii V.<sup>1</sup>, Amirkhanov V.<sup>1</sup>, Litsis O.<sup>1</sup>, Nedilko S.A.<sup>1</sup>, Voitenko T.<sup>1</sup>, Lebyedyeva T.<sup>2</sup>, Shpylovyy P.<sup>2</sup>, Nediello M.<sup>3</sup>, Aigouy L.<sup>4</sup>, Billot L.<sup>4</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*Glushkov Institute of Cybernetics of NASU, Kyiv, Ukraine*  
<sup>3</sup>*E.O. Paton Electric Welding Institute of NASU, Kyiv, Ukraine*  
<sup>4</sup>*Institut de Physique, Lab. de Physique et d'Etude des Matériaux, Paris, France*
- EP1-8P/5 Spectroscopy, electronic structure and luminescence origin of  $PbMoO_4$  and  $Pb_2MoO_5$  crystals**  
Hizhnyi Yu.<sup>1</sup>, Nedilko S.<sup>1</sup>, Chornii V.<sup>1</sup>, Trubitsyn M.<sup>2</sup>, Volnyanskaya I.<sup>2</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*Oles Honchar Dnipropetrovsk National University, Dnipropetrovsk, Ukraine*
- EP1-8P/6 Synthesis and luminescence properties of the  $Cs_3CaBi_{1-x}Ln_x(P_2O_7)_2$  ( $0 < x < 1$ ) solid solutions**  
Nedilko S.<sup>1</sup>, Strutynska N.<sup>1</sup>, Zatovsky I.<sup>1</sup>, Boyko V.<sup>2</sup>, Gomenyuk O.<sup>3</sup>, Sheludko V.<sup>3</sup>, Malashkevich G.<sup>4</sup>, Klapshina L.<sup>5</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine*  
<sup>3</sup>*Oleksandr Dovzhenko Hlukhiv National Pedagogical University, Glukhiv, Ukraine*  
<sup>4</sup>*SSI "The B.I. Stepanov Institute of Physics, Minsk, Republic of Belarus*  
<sup>5</sup>*G.A. Razuvaev Institute of Organometallic Chemistry, Nizhny Novgorod, Russia*

- EP1-8P/7 Investigation of morphology, crystal structure and luminescence properties of  $\text{La}_{1-x}\text{RE}_x\text{VO}_4$  powders synthesized by different methods**  
Chukova O.V.<sup>1</sup>, Nedilko S.G.<sup>1</sup>, Scherbatsky V.P.<sup>1</sup>, Nedilko S.A.<sup>2</sup>, Voitenko T.A.<sup>2</sup>, Virko S.V.<sup>3</sup>, Malashkevich G.E.<sup>4</sup>  
<sup>1</sup>*Faculty of Physics, Taras Shevchenko National University of Kyiv, Ukraine*  
<sup>2</sup>*Faculty of Chemistry, Taras Shevchenko National University of Kyiv, Ukraine*  
<sup>3</sup>*Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine*  
<sup>4</sup>*SSI "The B.I. Stepanov Institute of Physics", Minsk, Republic of Belarus*
- EP1-8P/8 VUV spectroscopy of the  $\text{K}_4\text{BiW}_2\text{P}_3\text{O}_{17}$  crystals**  
Chornii V.P.<sup>1</sup>, Nedilko S.G.<sup>1</sup>, Hizhnyi Yu.A.<sup>1</sup>, Slobodyanik N.S.<sup>1</sup>, Terebilenko K.V.<sup>1</sup>, Zatovsky I.V.<sup>1</sup>, Boyko V.V.<sup>2</sup>, Sheludko V.I.<sup>3</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine*  
<sup>3</sup>*Oleksandr Dovzhenko Glukhiv National Pedagogical University, Glukhiv, Ukraine*
- EP1-8P/9 Thermoluminescent properties of Mn-doped YAP synthesized by the solution combustion method**  
Zhydachevskii Ya.<sup>1,2</sup>, Kamińska I.<sup>1</sup>, Fronc K.<sup>1</sup>, Berkowski M.<sup>1</sup>, Elbaum D.<sup>1</sup>, Suchocki A.<sup>1,3</sup>  
<sup>1</sup>*Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland*  
<sup>2</sup>*Lviv Polytechnic National University, Lviv, Ukraine*  
<sup>3</sup>*Institute of Physics, University of Bydgoszcz, Bydgoszcz, Poland*
- EP1-8P/10 Nanopowders based on mono-sized Eu doped  $\text{Y}_2\text{O}_3$  spherical particles and their luminescence, structural and morphological properties**  
 Bezkravnyi O.S., Yermolayeva Yu.V., Matveevskaya N.A., Vovk O.M., Tolmachev A.V.  
*Institute for Single Crystals of NAS of Ukraine, Kharkov, Ukraine*
- EP1-8P/11 Lattice distortion induced by Si → Ge substitution in  $\text{Li}_2\text{CaGe}_{1-x}\text{Si}_x\text{O}_4$  solid solution**  
Dotsenko V.P.<sup>1</sup>, Berezovskaya I.V.<sup>1</sup>, Voloshinovskii A.S.<sup>2</sup>, Efryushina N.P.<sup>1</sup>  
<sup>1</sup>*A.V. Bogatsky Physico-Chemical Institute, Ukrainian Academy of Sciences, Odessa, Ukraine*  
<sup>2</sup>*Ivan Franko National University of Lviv, Lviv, Ukraine*
- EP1-8P/12 Validation of maximum permissible dimension of "cloud"-type defects in scintillation crystals for position-sensitive detectors**  
Okrushko E.N., Pedash V.Yu.  
*Institute for Scintillation Materials NAS of Ukraine, Kharkov, Ukraine*
- EP1-8P/13 Phase and structural behaviour of  $\text{NdAlO}_3$ - $\text{RAlO}_3$  (R = Tb, Dy) systems**  
Ohon N.A.<sup>1</sup>, Vasylechko L.O.<sup>1</sup>, Ubizskii S.B.<sup>1</sup>, Schmidt M.<sup>2</sup>  
<sup>1</sup>*Lviv Polytechnic National University, Lviv, Ukraine*  
<sup>2</sup>*Max-Planck-Institut für Chemische Physik fester Stoffe, Dresden, Germany*
- EP1-8P/14 New phosphors based on mono-sized nanopowders  $(\text{Lu}_{1-x}\text{Eu}_x)_2\text{O}_3$  with the core-shell structure**  
Yermolayeva Yu.V., Tolmachov A.V.  
*Institute for Single Crystals NAS of Ukraine, Kharkov, Ukraine*

- EP1-8P/15 White light emission in carbonized porous silicon oxide nano-composite**  
Vasin A.V., Gordienko S.O., Rusavsky A.V., Nazarov A.N., Lysenko V.S.  
*Lashakryov Institute of Semiconductor Physics, Kyiv, Ukraine*
- EP1-8P/16 Synthesis of fluorochloride glass-ceramics, activated by rare earth ions**  
Batygov S.Kh.<sup>1</sup>, Dmitruk L.N.<sup>1</sup>, Moiseeva L.V.<sup>1</sup>, Brekhovskikh M.N.<sup>2</sup>,  
Fedorov V.A.<sup>2</sup>  
<sup>1</sup>*A.M. Prokhorov Institute of General Physics, RAS, Moscow, Russia*  
<sup>2</sup>*N.S. Kurnakov Institute of General and Inorganic Chemistry, RAS, Moscow, Russia*
- EP1-8P/17 Modern devices on cadmium and zinc tellurides**  
Kulchitskiy N.A., Melnikov A.A.  
*Moscow State Institute of Radio Engineering, Electronics and Automatics, Moscow, Russia*
- EP1-8P/18 Uncooled X-ray and gamma radiation detectors on CdZnTe crystals**  
Kulchitskiy A.N., Kulchitskiy N.A., Melnikov A.A., Melnikov O.A.  
*Moscow State Institute of Radio Engineering, Electronics and Automatics, Moscow, Russia*
- EP1-8P/19 Chalcogenide glasses as sensing material for the radiation resistant fiber-optical temperature sensor of the fire alerter**  
Chalyy D.O.<sup>1</sup>, Ubizskii S.B.<sup>2</sup>, Shpotyuk M.V.<sup>2,3</sup>  
<sup>1</sup>*Lviv State University of Vital Activity Safety, Lviv, Ukraine*  
<sup>2</sup>*Lviv Polytechnic National University, Lviv, Ukraine*  
<sup>3</sup>*Scientific Research Company "Carat", Lviv, Ukraine*
- EP1-8P/20 Comprehensive microscopic investigation of CdS-Cu<sub>2</sub>S heterostucture used in optical and X-ray sensorics applications**  
Borschak V.A., Brytavskiy Ie.V., Lepikh Ya.I., Smyntyna V.A.  
*Odessa I.I. Mechnikov National University, Odessa, Ukraine*
- EP1-8P/21 Obtaining of ZnSe and CdSe powders from aqueous solutions**  
Sofronov D.S.<sup>1</sup>, Kovalenko N.O.<sup>2</sup>, Sofronova E.M.<sup>1</sup>, Gerasimenko A.S.<sup>2</sup>,  
Chebanov V.A.<sup>1</sup>  
<sup>1</sup>*Division of Chemistry of Functional Materials of SSI "Institute for Single Crystals" of National Academy of Sciences of Ukraine, Kharkiv*  
<sup>2</sup>*Institute for Single Crystals of National Academy of Sciences of Ukraine, Kharkiv*
- EP1-8P/22 ZnSe doped crystals, growing technology and luminescent characteristics**  
Ryzhikov V.D., Grinyov B.V., Galkin S.N., Rybalka I.A.  
*Institute for Scintillation Materials of STC "Institute for Single Crystals" NAS of Ukraine, Kharkov, Ukraine*
- EP1-8P/23 Scintillation ADP crystals doped with ammonium salicylate for neutron detection**  
Voronov A.P., Ananenko A.I., Babenko G.N., Pritula I.M.  
*Institute for Single Crystals, National Academy of Sciences of Ukraine, Kharkov, Ukraine*

- EP1-8P/24 Luminescence of PbWO<sub>4</sub>:Tb and CdWO<sub>4</sub>:Tb,Li crystals under photon excitation**  
 Novosad S.S., Kostyk L.V., Novosad I.S., Luchechko A.P., Partyka M.V., Teplyj T.I.  
*Ivan Franko National University of L'viv, Lviv, Ukraine*
- EP1-8P/25 Luminescence and other properties of incorporated with some oxides modified cellulose**  
 Nedilko S.G.<sup>1</sup>, Revo S.L.<sup>1</sup>, Scherbatskii V.P.<sup>1</sup>, Nediello M.S.<sup>2</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*  
<sup>2</sup>*E.O. Paton Electric Welding Institute of NASU, Kyiv, Ukraine*
- EP1-8P/26 Anionic Lanthanides Complexes with 3-methyl-1-phenyl-4-formylpyrazole-5-one as a new luminescent materials**  
Shul'gin V.F., Konnik O.V., Abchairova S.V., Gusev A.N., Meshkova S.B.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
*A.V. Bogatsky Physico-chemical Institute of the National Academy of Sciences of Ukraine*
- EP1-8P/27 Lanthanides complexes with 3-methyl-1-phenyl-4-formylpirazol-5-one acylhydrazones**  
 Shul'gin V.F., Bekirova Z.Z., Konnik O.V.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*
- EP1-8P/28 New Eu(III) complexes on triazole basis for OLED**  
Gusev A.N.<sup>1</sup>, Shul'gin V.F.<sup>1</sup>, Hasegawa M.<sup>2</sup>, Linert W.<sup>3</sup>  
<sup>1</sup>*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*  
<sup>2</sup>*Department of Chemistry and Biological Science, College of Science and Engineering, Aoyama Gakuin University, Kanagawa, Japan*  
<sup>3</sup>*Institute for Applied Synthetic Chemistry, Vienna University of Technology, Vienna, Austria*
- EP1-8P/29 Influence of stilbene and p-terphenyl material structure on their scintillation and optical properties**  
 Gorbacheva T.E., Lazarev I.V., Panikarskaya V.D., Galunov N.Z.  
*Institute for Scintillation Materials of NAS of Ukraine, Kharkov, Ukraine*
- EP1-8P/30 Properties of polystyrene-based scintillator containing gadolinium complexes**  
Velmozhnaya O.S., Bedrik A.I., Zhmurin P.N., Titskaya V.D., Vaschenko O.V.  
*Institute for Scintillation Materials National Academy of Sciences of Ukraine, Kharkiv, Ukraine*
- EP1-8P/31 Luminescence of irradiated  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> and Zn<sub>2</sub>SiO<sub>4</sub>-Mn in the atmosphere of H- and O-atoms**  
Grankin D.V.  
*Pryazovskyi State Technical University, Mariupol, Ukraine*

**9.00-14.00****Poster Session EP2.****Section 12. New Techniques & Equipment for Materials Research****Chairmen:** Pogorelov A., Yagodzinsky Y.

- EP2-12P/1 EBSD as a powerful method in analysis of low-carbon steel structure under SPD**  
 Varyukhin V.N., Zavdoveev A.V., Pashinska E.G., Tkachenko V.M.  
*A.A. Galkin Donetsk Institute for Physics and Engineering NAS of Ukraine, Donetsk, Ukraine*
- EP2-12P/2 Forced torsion pendulum for studies of interactions at solid-liquid interface**  
Yagodzinsky Y., Straka L., Hänninen H.  
*Aalto University School of Engineering, Espoo, Finland*
- EP2-12P/3 In-Situ and In-Time Spectral Magneto-Ellipsometer**  
 Zabluda V.N.<sup>1</sup>, Varnakov S.N.<sup>1,2</sup>, Kosirev N.N.<sup>1,2</sup>, Ovchinnikov S.G.<sup>1,2</sup>, Rishlicky S.V.<sup>3</sup>, Shvets V.A.<sup>3</sup>  
<sup>1</sup>*Kirensky Institute of Physics, Krasnoyarsk, Russia*  
<sup>2</sup>*Siberian State Aerospace University (SibSAU), Krasnoyarsk, Russia*  
<sup>3</sup>*The Institute of Semiconductor Physics, (ISP SB RAS), Novosibirsk, Russia*
- EP2-12P/4 Aspects of monitoring nanoheterostructures growth by reflectance and reflectance anisotropy spectroscopy**  
 Bazalevsky M.A., Kazakov I.P., Tsekhosh V.I.  
*Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia*
- EP2-12P/5 Improved method of diagnostics for multi-component structures**  
 Manilov A.I.  
*Institute of High Technologies, Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
- EP2-12P/6 Non-destructive testing of multicomponent thin films on depth using the scanning electron microscopy**  
Sergeeva O.N.<sup>1</sup>, Senkevich S.V.<sup>2,3</sup>, Pronin I.P.<sup>2</sup>, Flegontova E.Yu.<sup>2</sup>, and Pronin V.P.<sup>3</sup>  
<sup>1</sup>*Tver State University, Tver, Russia*  
<sup>2</sup>*Ioffe Institute, St.-Petersburg, Russia*  
<sup>3</sup>*Herzen Pedagogical University, St.-Petersburg, Russia*
- EP2-12P/7 Reflection electron energy loss spectroscopy of Ge<sub>x</sub>Si<sub>1-x</sub> structures**  
Parshin A.S.<sup>1</sup>, Pyanovskaya E.P.<sup>1</sup>, Mikhlin Yu.L.<sup>2</sup>, Pchelyakov O.P.<sup>3</sup>, Nikiforov A.I.<sup>3</sup>, Timofeev V.A.<sup>3</sup>, Esin M.Yu.<sup>1</sup>  
<sup>1</sup>*M.F. Reshetnev Siberian State University, Krasnoyarsk, Russia*  
<sup>2</sup>*Chemistry and Chemical Technology Institute, SB RAS, Krasnoyarsk, Russia*  
<sup>3</sup>*A.V. Rzhzanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia*
- EP2-12P/8 Determination of nanocomposites structure parameters by very cold neutrons scattering**  
Kuznetsov S.P.<sup>1</sup>, Meshkov I.V.<sup>1</sup>, Shelagin A.V.<sup>2</sup>  
<sup>1</sup>*P.N. Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia*  
<sup>2</sup>*Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Region, Russia*

- EP2-12P/9 Modified diamond anvil cell apparatus for producing functional nanoparticles materials**  
Bilousov N.N., Varyukhin V.N.  
*Donetsk physical-technical Institute, NAS of Ukraine, Donetsk, Ukraine*
- EP2-12P/10 The factor of nonstationarity in the characterization of materials by the laser flash method**  
 Pogorelov A.<sup>1</sup>, Pogoryelov Ye.<sup>2</sup>  
<sup>1</sup>*G.V. Kurdyumov Institute for Metal Physics, NASU, Kiev, Ukraine*  
<sup>2</sup>*Department of Physics, University of Gothenburg, Gothenburg, Sweden*
- EP2-12P/11 Synthesis some oxides with structure type perovskite**  
Voronov V.N.<sup>1</sup>, Ovchinnikov S.G.<sup>1</sup>, Dudnikov V.A.<sup>1</sup>, Vereshchagin S.N.<sup>2</sup>, Shishkina N.N.<sup>2</sup>  
<sup>1</sup>*L.V. Kirensky Institute of Physics, SB RAS, Krasnoyarsk, Russia*  
<sup>2</sup>*Institute of Chemistry and Chemical Technology, SB RAS, Krasnoyarsk, Russia*
- EP2-12P/12 High pressure and cryogenic equipment for physical experiments**  
Postol P.N., Berejnaya L.V., Bukin G.V., Makmak I.M., Terekhov S.A., Drobotko V.F., Kasyanov A.I., Levchenko G.G.  
*Donetsk Physico-Technical Institute, National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- EP2-12P/13 A simple low-cost thermostatic chamber with a high monitoring sensitivity**  
 Yatsenko A.V., Yevdokimov S.V., Yatsenko A.A., Pritulenko A.S.  
*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*

**15.00-17.45****Oral Session EC.****Section 10. Materials for Medical Applications. Biosensors**

**Chairmen:** Gorobets S.

- EC-100/1 Ferritin and biomineralization of biogenic magnetic nanoparticles in microorganisms**  
 Gorobets S.V., Gorobets O.Yu., Demianenko I.V.  
*National technical university of Ukraine 'Kiev Polytechnic Institute', Kiev*
- EC-100/2 Magnetic behavior of maghemite nanoparticles coated with polymeric shell of vinylacetate-maleic acid with end peroxide fragments**  
Demchenko P.<sup>1,2</sup>, Mitina N.<sup>2</sup>, Zaichenko A.<sup>2</sup>, Nedelko N.<sup>1</sup>, Lewicka S.<sup>1</sup>, Ślawska-Waniewska A.<sup>1</sup>, Dłużewski P.<sup>1</sup>, Bilaska M.<sup>1</sup>, Ubizskii S.<sup>2</sup>  
<sup>1</sup>*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*  
<sup>2</sup>*Lviv Polytechnic National University, Lviv, Ukraine*
- EC-100/3 Synthesis and physicochemical investigation of composite materials on the base of calcium orthophosphates and gelatin**  
Solonenko A.P., Golovanova O.A.  
*OmSU n.a. F.M. Dostoevskiy, Omsk, Russia*
- EC-100/4 New approach in tissue engineering based on surface-modified human cells**  
Dzamukova M.R., Naumenko E.A., Lannik N.I., Fakhrullin R.F.  
*Kazan (Idel buye/Volga region) Federal University, Institute of fundamental medicine and biology, Kazan, Republic of Tatarstan, RF*

**EC-100/5 Porous silicon powder as hydrogen source controlled by light**  
 Gubov O.M., Gavrilchenko I.V., Shulimov Yu.G., Litvinenko S.V.  
*Institute of High Technologies, Kyiv National Taras Shevchenko University, Kyiv, Ukraine*

**15.00-17.45 Poster Session EQ1.**

**Section 2. Hard & Soft Magnetic Materials II**

**Chairmen:** Lukshina V., Il'yashenko E.

- EQ1-2P/1 Magnetic properties, thermal stability and structure of nanocrystalline soft magnetic  $(\text{Fe}_{0.7}\text{Co}_{0.3})_{88}\text{Hf}_2\text{W}_2\text{Mo}_2\text{Zr}_1\text{B}_4\text{Cu}_1$  alloy with induced magnetic anisotropy**  
Lukshina V.A.<sup>1</sup>, Dmitrieva N.V.<sup>1</sup>, Volkova E.G.<sup>1</sup>, Potapov A.P.<sup>1</sup>, Filippov B.N.<sup>1</sup>, and Shishkin D.A.<sup>1,2</sup>  
<sup>1</sup>*Institute of Metal Physics UD RAS, Ekaterinburg, Russia*  
<sup>2</sup>*Urals Federal University, Ekaterinburg, Russia*
- EQ1-2P/2 Thermal activation analysis of plasticity of Ni-18.75 at.% Fe alloy in different structural states**  
 Tabachnikova E.D.<sup>1</sup>, Podolskiy A.V.<sup>1</sup>, Smirnov S.N.<sup>1</sup>, Psaruk I.A.<sup>1</sup>, Liaw P.K.<sup>2</sup>  
<sup>1</sup>*B.I. Verkin Institute for Low Temperature Physics and Engineering of National Academy of Sciences of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*Tennessee University, Knoxville, USA*
- EQ1-2P/3 An investigations of crystal lattice changes into non-stoichiometric  $\text{Ti}_3\text{Sn}$**   
Ivanova O.M.<sup>1,2</sup>, Karpets M.V.<sup>1</sup>, Yavari A.R.<sup>2</sup>, Georgarakis K.<sup>2</sup>, Podrezov Yu.N.<sup>1</sup>  
<sup>1</sup>*Frantsevich Institute for Problems of Materials Science, National Academy of Sciences of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Euronano, SIMaP-CNRS, Institut Polytechnique de Grenoble (INPG), Saint-Martin d'Herès Campus, France*
- EQ1-2P/4 The influence of chemical composition of Al-based glasses on temperature of the thermally induced ductile-brittle transition**  
Tkatch V.I.<sup>1,2</sup>, Svyrydova K.A.<sup>2</sup>, Rassolov S.G.<sup>1,2</sup>, Maksimov V.V.<sup>1</sup>, Kostyrya S.A.<sup>1</sup>, Moiseeva T.N.<sup>1</sup>  
<sup>1</sup>*Donetsk Institute of Physics & Engineering of the NAS of Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Lugansk Taras Shevchenko National University, Lugansk, Ukraine*
- EQ1-2P/5 The analysis of transient nucleation in metallic glasses**  
Rassolov S.G., Tkatch V.I., Popov V.V., Kovalenko O.V., Maksimov V.V., Moiseeva T.N.  
*O.O. Galkin Donetsk Institute of Physics & Engineering of the NAS of Ukraine, Donetsk, Ukraine*

- EQ1-2P/6 Low temperature mechanical properties of the Al<sub>0.5</sub>CoCrCuFeNi high-entropy alloy in the cast and annealed states**  
Laktionova M.O.<sup>1</sup>, Tabachnikova E.D.<sup>1</sup>, Tikhonovsky M.A.<sup>2</sup>, Tortika A.S.<sup>2</sup>  
<sup>1</sup>*B. Verkin Institute for Low Temperature Physics and Engineering of National Academy of Sciences of Ukraine, Kharkov, Ukraine*  
<sup>2</sup>*National Science Center «Kharkov Institute of Physics and Technology» of National Academy of Sciences of Ukraine, Kharkov, Ukraine*
- EQ1-2P/7 Correlation between glass forming ability, structure, thermal stability and properties of amorphous Fe-based alloys**  
 Nizameev M.S.<sup>1</sup>, Nosenko V.K.<sup>1</sup>, Rudenko O.Yu.<sup>1</sup>, Moiseeva T.N.<sup>2</sup>, Tkatch V.I.<sup>2</sup>  
<sup>1</sup>*G.V. Kurdyumov Institute for Metal Physics of NAS of Ukraine, Kyiv, Ukraine*  
<sup>2</sup>*O.O. Galkin Donetsk Institute of Physics & Engineering of the NAS of Ukraine, Donetsk, Ukraine*
- EQ1-2P/8 The influence of heat treatment on stability of amorphous alloys**  
 Lysov V.I., Tsaregradskaya T.L., Turkov O.V., Saenko G.V., Teselko P.O.  
*Kyiv Taras Shevchenko national university, Kyiv, Ukraine*
- EQ1-2P/9 The influence of alloying on processes of phase-formation in metallic glasses**  
 Lysov V.I., Tsaregradskaya T.L., Turkov O.V., Saenko G.V.  
*Kyiv Taras Shevchenko national university, Kyiv, Ukraine*
- EQ1-2P/10 Structure and Mechanical Properties of Splat-Quenched CoCrCuFeNiSn<sub>x</sub> High-Entropy Alloys**  
Kushnerev A.I., Bashev V.F.  
*Oles Honchar Dnipropetrovsk National University, Dnipropetrovsk, Ukraine*
- EQ1-2P/11 The influence of high temperature annealing on strain-induced concentration separation in chrome-nickel steels**  
 Varyukhin V.N.<sup>1</sup>, Deryagin A.I.<sup>2</sup>, Stefanovich L.I.<sup>1</sup>, Terekhova Yu.V.<sup>1</sup>, Efros B.M.<sup>1</sup>, Yurchenko V.M.<sup>1</sup>  
<sup>1</sup>*Galkin Institute for Physics & Engineering of NAS of Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Institute of Metal Physics Ural Division of RAS, Ekaterinburg, Russia*
- EQ1-2P/12 A small-angle X-ray scattering study of magnetic fluids in magnetic field**  
Frey D.I.<sup>1</sup>, Veligzhanin A.A.<sup>1,2</sup>, Chernyshov A.A.<sup>2</sup>, Zubavichus Ya.V.<sup>1,2</sup>, Yakovenko E.V.<sup>2</sup>, and Avdeev M.V.<sup>3</sup>  
<sup>1</sup>*Moscow Institute of Physics and Technology, Dolgoprudnii, Russia*  
<sup>2</sup>*NRC Kurchatov Institute, Moscow, Russia*  
<sup>3</sup>*Joint Institute for Nuclear Research, Dubna, Russia*
- EQ1-2P/13 Morphology of FeBO<sub>3</sub> monocrystals, synthesized from solution in melt**  
 Maksimova E.M., Mironyuk A.V., Nauhatsky I.A., Strugatsky M.B., Yagupov S.V.  
*Taurida National University, Simferopol, Ukraine*
- EQ1-2P/14 Calculation of basal magnetic anisotropy of easy-plane rhombohedral antiferromagnets**  
 Bolotin D.D., Maksimova E.M., Strugatsky M.B.  
*Taurida National University, Simferopol, Ukraine*

- EQ1-2P/15 Investigation of heat-time stability of initial magnetic permeability of amorphous  $\text{Co}_{66,7}(\text{FeCr})_{6,3}\text{Si}_{15}\text{B}_{12}$  alloy after heat-time and heat-magnetic treatments**  
Kyrylchuk V.V.  
*G.V. Kurdyumov Institute for Metal Physics of NAS of Ukraine, Kyiv, Ukraine*
- EQ1-2P/16 Magnetic field effect on the surface structure relaxation of the Ni-Ag granular films**  
Yakymenko Yu.I.<sup>1</sup>, Gorobets O.Yu.<sup>1</sup>, Pavlenko I.A.<sup>2</sup>, Derecha D.O.<sup>2</sup>, Shpetnyi I.O.<sup>2,3</sup>  
<sup>1</sup>*National Technical University of Ukraine «Kyiv Polytechnic Institute», Kiev, Ukraine*  
<sup>2</sup>*Institute of Magnetism NAS of Ukraine, Kiev, Ukraine*  
<sup>3</sup>*Sumy State University, Sumy, Ukraine*
- EQ1-2P/17 Nd-Fe-B nanoparticles for the development of high energy nanocomposite magnets**  
Bovda O.M.<sup>1</sup>, Bovda V.O.<sup>1</sup>, Onischenko L.V.<sup>1</sup>, Shykhailo P.M.<sup>2</sup>, Ostrovskii I.M.<sup>2</sup>  
<sup>1</sup>*National Scientific Center, Kharkiv Institute of Physics and Technology, Ukraine*  
<sup>2</sup>*Polus-N LLC, Ukraine*
- EQ1-2P/18 Research of hydrogen sorption desorption influence on structure and phase composition of the hard-magnetic materials Nd-Fe-B-Cu-Ti-Zr-C**  
Brekharya G.<sup>1</sup>, Lyashenko N.<sup>2</sup>, Volosevich P.<sup>1</sup>  
<sup>1</sup>*Metallophysics institute of G.V. Kurdyumov NAN of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Dneprodzerzhinsk state technical university, Dneprodzerzhinsk, Ukraine*
- EQ1-2P/19 The influence of external pressure on structure and magnetic properties of sintered magnets**  
Brekharya G.P.<sup>1</sup>, Hulyayeva T.V.<sup>2</sup>  
<sup>1</sup>*Institute of Metal Physics of NASU, Kyiv, Ukraine*  
<sup>2</sup>*National Technical University, Zaporozhye, Ukraine*
- EQ1-2P/20 Copper Impact on Properties of  $\text{Fe}_{76}\text{Nd}_{16}\text{B}_8$  Alloy – Based Permanent Magnet**  
Brekharya G.<sup>1</sup>, Kharitonova E.<sup>2</sup>  
<sup>1</sup>*Institute of Metal Physics named after G.V. Kurdyumov of NAS of Ukraine, Kiev, Ukraine*  
<sup>2</sup>*Dneprodzerzhinsk State Technical University, Dneprodzerzhinsk, Ukraine*
- EQ1-2P/21 Interstitially modified rare-earth intermetallics with permanent magnetic properties**  
Tereshina I.S.<sup>1</sup>, Tereshina E.A.<sup>1,2</sup>, Drulis H.<sup>3</sup>  
<sup>1</sup>*Lomonosov Moscow State University, Moscow, Russia*  
<sup>2</sup>*Institute of Physics ASCR, Prague, Czech Republic*  
<sup>3</sup>*Institute of Low Temperatures and Structure Research PAS, Wroclaw, Poland*
- EQ1-2P/22 Body centered cubic (bcc) uranium alloys and their hydrides**  
Paukov M., Tkach I., Havela L.  
*Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic*

- EQ1-2P/23 Domain structure and magnetic properties heterogeneous R-Co-M hard magnetic materials**  
Lukin A.A.<sup>1</sup>, Il'yashenko E.I.<sup>2</sup>, Skjeltorp A.T.<sup>3</sup>  
<sup>1</sup>Ltd "Research and production Company "Magnets and Magnetic Systems", Russia, Moscow  
<sup>2</sup>Moscow State University, Department of Physics, Moscow, Russia  
<sup>3</sup>Institute for Energy Technology, Kjeller, Norway and University of Oslo
- EQ1-2P/24 Wear resistant cobalt-based alloys for the aeronautical industry**  
Dmitrieva G., Cherepova T.  
*V.G. Kurdyumov Institute of Metal Physics, NASU, Kiev, Ukraine*
- EQ1-2P/25 Interaction of nitrogen with the surface of alloys Al-Ln**  
Akashev L.A., Popov N.A.  
*Institute of Solid State Chemistry, Ural Branch of the Russian Academy of Sciences*
- EQ1-2P/26 High-temperature dynamic recrystallization of the Al-4.8Cu-1.2Mg alloy during crystallization under high pressure**  
Khalikova G.R., Baimova J.A., Trifonov V.G., Dmitriev S.V.  
*Institute for Metals Superplasticity Problems of RAS, Ufa, Russia*
- EQ1-2P/27 The effect of dopant and the sequence of phase formation during oxidation of the alloy powder Al-Ca**  
Shevchenko V.<sup>1</sup>, Eselevich D.<sup>1</sup>, Tolochko B.<sup>2</sup>, Ancharov A.<sup>2</sup>  
<sup>1</sup>ISSC UB RAS  
<sup>2</sup>ISSC and MC SB RAS
- EQ1-2P/28 Determination of thermal fluctuation parameters at iron borate crystallization**  
Chuklov V.A., Yagupov S.V., Malyuchkov A.S.  
*Taurida National Vernadsky University, Simferopol, Ukraine*

**15.00-17.45****Poster Session EQ2.****Section 5. Piezo & Magnetoelectric Materials. Multiferroics**

**Chairmen:** Filippov D., Fetisov Y.

- EQ2-5P/1 Change of the Domain Wall Structure under the Influence of an Electric Field in Magnets with a Flexomagnetoelectric Effect**  
Vakhitov R.M., Kharisov A.T., Nikolayev Yu.E.  
*Bashkir State University, Ufa, Russia*
- EQ2-5P/2 A difference sensor of a static magnetic field based on the magnetostrictive – piezoelectric structures**  
Filippov D.A.<sup>1</sup>, Laletin V.M.<sup>2</sup>, Firsova T.O.<sup>1</sup>  
<sup>1</sup>Yaroslav-the-Wise Novgorod State University, Velikiy Novgorod, Russia  
<sup>2</sup>Institute of Technical Acoustics NAS of Belarus, Vitebsk, Belarus
- EQ2-5P/3 Considering the interlayer adhesive bonding in the theory of the magnetoelectric effect in bilayer structure**  
Galichyan T.A., Filippov D.A.  
*Yaroslav-the-Wise Novgorod State University Velikiy Novgorod, Russia*

- EQ2-5P/4 Nonlinear resonance magnetoelectric effect in magnetostrictive piezoelectric structures**  
Filippov D.A.<sup>1</sup>, Laletin V.M.<sup>2</sup>, Firsova T.O.<sup>1</sup>  
<sup>1</sup>*Yaroslav-the-Wise Novgorod State University, Velikiy Novgorod, Russia*  
<sup>2</sup>*Institute of Technical Acoustics NAS of Belarus, Vitebsk, Belarus*
- EQ2-5P/5 The amplification of evanescent wave at the interface "magnetoelectric - a nonmagnetic dielectric" in a dc electric field**  
Levchenko G.G.<sup>1</sup>, Savchenko A.S.<sup>1</sup>, Tarasenko A.S.<sup>1</sup>, Tarasenko S.V.<sup>1</sup>, Shavrov V.G.<sup>2</sup>  
<sup>1</sup>*Donetsk Institute for Physics & Engineering of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*  
<sup>2</sup>*Kotel'nikov Institute of Radio Engineering and Electronics of the Russian Academy of Sciences, Moscow, Russia*
- EQ2-5P/6 Dynamics of domain walls in ferromagnets with inhomogeneous magnetoelectric interaction**  
 Gerasimchuk V.S.<sup>1</sup> and Shitov A.A.<sup>2</sup>  
<sup>1</sup>*National Technical University of Ukraine "Kyiv Polytechnic Institute" Kyiv, Ukraine*  
<sup>2</sup>*Donbass National Academy of Civil Engineering, Makeevka, Ukraine*
- EQ2-5P/7 Structure and point defects of the relaxor ferroelectric  $\text{Sr}_{0.61}\text{Ba}_{0.39}\text{Nb}_2\text{O}_6$  crystals both undoped and doped with  $\text{Cr}^{3+}$  and  $\text{Ni}^{3+}$**   
Kaurova I.A.<sup>1</sup>, Ivleva L.I.<sup>4</sup>, Kuz'micheva G.M.<sup>3</sup>, Rybakov V.B.<sup>4</sup>  
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Filimonov Yu.....CP2-3P/10, CP1-7P/7  
Filippov B.N.....EQ1-2P/1  
Filippov D.A.....EQ2-5P/4, EQ2-5P/3, EQ2-5P/2  
Fionov A.S.....DP-9P/35

Firsova T.O. ....	EQ2-5P/4, EQ2-5P/2	Golovchan A.V. ....	BP1-6P/2, BP1-6P/1
Flegontova E.Yu. ....	EP2-12P/6	Goltsev A.N. ....	AP1-10P/22
Fokina M.I. ....	DP-9P/39	Golub V.O. ....	DQ1-4P/27, DQ1-4P/25, BQ-1P/43, AP1-10P/23, AP1-10P/22
Fominov Ya.V. ....	BQ-1P/24	Golubov A.A. ....	BQ-1P/24
Fraerman A.A. ....	DQ1-4P/6	Gomenyuk O. ....	EP1-8P/6
Frey D.I. ....	EQ1-2P/12	Gomonay H.V. ....	EB-2L/3, DQ2-2P/5, CP2-3P/1, BB-3L/1
Fridman Yu.A. ....	BP2-1P/4, BP2-1P/3	Gonzalez J. ....	BA-7L/5
Fronc K. ....	EP1-8P/9	Gorbach L.A. ....	AP1-10P/2
Furs V.V. ....	BQ-1P/16	Gorbach P. ....	BP1-6P/8
<b>G</b>		Gorbacheva T.E. ....	EP1-8P/29
Gaifullin R.R. ....	BQ-1P/24	Gorbovanov A.I. ....	BQ-1P/16
Galichyan T.A. ....	EQ2-5P/3	Gordienko S.O. ....	EP1-8P/15
Galkin S. ....	EP1-8P/22, DB-80/7	Gorelikov G.A. ....	BP2-1P/4
Galkina E.G. ....	BP2-1P/5	Gornostaeva O.V. ....	BQ-1P/20
Galkina O.L. ....	AP1-10P/25	Gorobets S.V. ....	EC-100/1, CA-10L/2, AP1-10P/20, AP1-10P/18
Galunov N.Z. ....	EP1-8P/29, DB-80/11	Gorobets Yu.I. ....	CP1-7P/8, CA-10L/2, AP1-10P/19
Galuza A.A. ....	DA-40/8	Gorobets O.Yu. ....	EQ1-2P/16, EC-100/1, CP1-7P/8, CA-10L/2, AP1-10P/21, AP1-10P/19, AP1-10P/18
Galyametdinov Yu.G. ....	DQ1-4P/33	Gorshenkov M. ....	BP1-6P/14
Gan'shina E.A. ....	DQ1-4P/13	Gospodarev I.A. ....	DP-9P/3
Garbuz V.V. ....	AP1-10P/6	Gourbilleau F. ....	DC-9L/2
Gareeva Z.V. ....	EA-50/9	Govor G.A. ....	EB-20/1
Gaspar A.B. ....	BQ-1P/41, BQ-1P/39	Grankin D.V. ....	EP1-8P/31
Gaur N.K. ....	BQ-1P/29	Grankin M.V. ....	DP-9P/49
Gavrilchenko I.V. ....	EC-100/5	Grankin V.P. ....	DP-9P/49
Gayvoronsky V.Ya. ....	DQ1-4P/38, DQ1-4P/37, DQ1-4P/17	Greben'kova Yu.E. ....	DA-40/9
Geist D. ....	DP-9P/28	Grechnev A. ....	CP2-3P/4, BQ-1P/21, BQ-1P/3
Gektin A.V. ....	DB-80/2	Grechnev G.E. ....	BQ-1P/21
Genenko Yu.A. ....	AP1-10P/16	Gribanov I.F. ....	BP1-6P/1
Georgarakis K. ....	EQ1-2P/3	Gribkov B.A. ....	DQ1-4P/6
Gerasimchuk I.V. ....	DQ1-4P/5, DQ1-4P/4, DA-40/11	Grigoryeva N.Yu. ....	CP1-7P/6
Gerasimchuk V.S. ....	EQ2-5P/6, DQ1-4P/4, DA-40/11	Grinyov B.V. ....	EP1-8P/22, DB-80/3, DB-80/2
Gerasimenko A.S. ....	EP1-8P/21	Grishina E.P. ....	AP2-11P/3
Gerasimov M.V. ....	DA-40/10	Grollier J. ....	CP1-7P/4
Gerasimov V.V. ....	DQ1-4P/35	Gruselle M. ....	BQ-1P/42
Gerasimova T.V. ....	CP2-3P/3	Guba S.K. ....	DP-9P/14
Gerbedoen J.C. ....	EA-50/3	Gubaidullin M.N. ....	CP1-7P/17
Gervits N.E. ....	DP-9P/31, BQ-1P/11, BQ-1P/9	Gubov O.M. ....	EC-100/5
Ghidini M. ....	EA-50/6	Gudim I.A. ....	DQ1-4P/19
Giordano S. ....	EA-50/2	Gule E.G. ....	DP-9P/21
Gippius A.A. ....	DP-9P/31, BQ-1P/11, BQ-1P/9	Gumerov A.M. ....	CP2-3P/20
Gizhevskii B.A. ....	DA-40/3	Gurin V.G. ....	DP-9P/10
Glavatska N. ....	BP1-6P/8, BP1-6P/7, BP1-6P/6	Gurlo A. ....	AP1-10P/16
Glavatskyy I. ....	BP1-6P/7, BP1-6P/6	Gusev A.A. ....	DQ2-2P/8, DP-9P/2, BP2-1P/20, AC-1L/2
Gnatchenko S. ....	AC-1L/2	Gusev A.N. ....	EP1-8P/28, EP1-8P/26
Gnatenko Yu.P. ....	BQ-1P/18	Gusev S.A. ....	DQ1-4P/6, DP-9P/23
Gnezdilov V. ....	BP2-1P/20, AC-1L/2, AB-1L/1	Gusliencko K.Y. ....	BA-7L/5
Godinho M. ....	BB-30/6, BP1-6P/3	Gutfleisch O. ....	CB-60/5
Gogotsi Y. ....	BQ-1P/14		
Golik L.L. ....	DQ1-4P/13		
Golovanova O.A. ....	EC-100/3		

**H**

Halloufi O. .... AP2-11P/6, AP2-11P/4  
 Hamdani M. .... AP2-11P/6, AP2-11P/4  
 Hamidova G.T. .... DP-9P/18  
 Hänninen H. .... EP2-12P/2, CB-60/3  
 Hasegawa M. .... EP1-8P/28  
 Havela L. .... EQ1-2P/22  
 Heczko O. .... CB-60/3  
 Hillebrands B. .... BA-7L/3  
 Hiltunen Y. .... AA-6L/1  
 Hizhnyi Yu. .... EP1-8P/8, EP1-8P/5, DB-80/4  
 Hovorka O. .... EA-50/6  
 Huang Yong ..... DC-90/2  
 Hueso L.E. .... EA-50/6  
 Hulyayeva T.V. .... EQ1-2P/19

**I**

İbragimova E.Z. .... DP-9P/17  
 Ignatchenko V.A. .... AC-1L/4  
 Ignateva T.A. .... AP1-10P/23, AP1-10P/22  
 Ignatovych M. .... DP-9P/36  
 Ihm Gukhyung ..... BB-30/2  
 Il'yashenko E.I. .... EQ1-2P/23  
 Ilyin N.A. .... DQ1-4P/16  
 Ingram A. .... DQ1-4P/39  
 Ipatov M. .... DQ2-2P/7  
 Iunin Yu.L. .... EA-50/7, BB-30/7  
 Iurchuk V. .... BB-30/5  
 Ivanchenko I. .... BP2-1P/19, BP2-1P/18  
 Ivanenko K.O. .... DP-9P/9  
 Ivanov A.A. .... DQ2-2P/9  
 Ivanov B.A. .... DA-4L/2, CP1-7P/5, BP2-1P/5  
 Ivanova O.M. .... EQ1-2P/3  
 Ivantsov R.D. .... DA-40/7  
 Ivleva L.I. .... EQ2-5P/7  
 Iwasieczko W. .... EB-2L/2

**J**

Jamalova A.G. .... DP-9P/18  
 Jastrzębski W. .... DB-80/1  
 Jia Zixian ..... DC-90/1  
 Juraev M. .... DQ1-4P/20

**K**

Kabanova O.S. .... DQ1-4P/9  
 Kaganovich E.B. .... AP1-10P/12  
 Kajňaková M. .... AC-10/2  
 Kalganov D.A. .... CP1-7P/15  
 Kalinikos B.A. .... CP1-7P/6  
 Kalinin Yu.E. .... CP1-7P/19  
 Kalinina L.A. .... BP2-1P/16  
 Kalinina T.V. .... DP-9P/38  
 Kalinovskiy V.V. .... AP1-10P/22  
 Kalita V.M. .... CP2-3P/7, BB-30/6  
 Kalkuta S.A. .... BQ-1P/33

Kalsin A.M. .... DQ1-4P/35  
 Kamenev V.I. .... BQ-1P/32, BQ-1P/31, AC-10/6  
 Kamińska A. .... DB-80/1  
 Kamińska I. .... EP1-8P/9  
 Kaminski B. .... DA-40/6  
 Kanaev A. .... DC-90/1, DC-9L/1  
 Kaptelov E.Yu. .... EQ2-5P/8  
 Karakchieva O. .... DQ1-4P/36  
 Karashtin E.A. .... DQ1-4P/6  
 Karavainikov A.V. .... DQ1-4P/27, DQ1-4P/26,  
 DQ1-4P/25, DQ1-4P/24, BQ-1P/43  
 Karbivskyy V.L. .... DP-9P/34, BQ-1P/6,  
 AP1-10P/17  
 Karminskaya T.Yu. .... BQ-1P/24  
 Karpets M.V. .... EQ1-2P/3  
 Kartel M.T. .... DP-9P/9  
 Kasap B.O. .... AP1-10P/5  
 Kasyanov A.I. .... EP2-12P/12  
 Kaurova I.A. .... EQ2-5P/7  
 Kavetsky T.S. .... DP-9P/50  
 Kayser M. .... DC-9L/1  
 Kazak A.A. .... DQ1-4P/10  
 Kazakov I.P. .... EP2-12P/4  
 Kazantseva A.A. .... DP-9P/38  
 Kazimov N.F. .... DP-9P/18  
 Kelkar D.S. .... EQ2-5P/22  
 Khabibullin I.H. .... BQ-1P/8  
 Khachaturov A.I. .... BB-30/8  
 Khachaturova T.A. .... BB-30/8  
 Khaimovich P.A. .... AP1-10P/8  
 Khakhalin A.V. .... EP1-8P/2  
 Khalikova G.R. .... EQ1-2P/26  
 Khan N. .... AC-10/4  
 Khanina O. .... DP-9P/36  
 Kharchenko M.F. .... EQ2-5P/18, DQ1-4P/28,  
 DQ1-4P/26, DQ1-4P/25, DQ1-4P/24  
 Kharchenko Yu.M. .... DQ1-4P/26, DQ1-4P/25,  
 DQ1-4P/24  
 Kharisov A.T. .... EQ2-5P/1  
 Kharitonova E. .... EQ1-2P/20  
 Kharko O. .... BQ-1P/38  
 Khatsaiuk V.V. .... DQ2-2P/6, DQ2-2P/5,  
 CP1-7P/10  
 Khavronin V.P. .... BP2-1P/15, AC-10/5  
 Khizhnaya T.M. .... BP1-6P/17  
 Khizhnyi V.I. .... BP1-6P/17  
 Khokhlov V.A. .... EQ2-5P/9, BQ-1P/36  
 Khomenko B.S. .... DP-9P/10  
 Khomenkova L. .... DC-9L/2  
 Khovaylo V.V. .... EB-20/4, CB-60/5, BP1-6P/14,  
 BP1-6P/13, BP1-6P/12  
 Khrebtov A.O. .... EQ2-5P/17  
 Khristosenko R.V. .... AP1-10P/12  
 Khristov A.V. .... BQ-1P/40, BQ-1P/39

Khrustalyov V.M. ....	EQ2-5P/18, DQ1-4P/28	Korotkov N.Yu. ....	DP-9P/31
Khvalkovskiy A.V. ....	CP1-7P/4	Korpan Y.I. ....	AP1-10P/6
Kim P.D. ....	CP2-3P/9, CP2-3P/8, CP1-7P/3	Kościelska B. ....	BQ-1P/23
Kimel A.V. ....	DQ1-4P/2, DA-4L/1	Koshelyuk S. ....	BP1-6P/19
Kirdyankin D.I. ....	BP2-1P/14, BP2-1P/13	Koshurnikova E.V. ....	BP2-1P/16
Kirilyuk A. ....	DQ1-4P/2	Kosinova A. ....	DQ1-4P/17
Kiroshka V.V. ....	AP1-10P/23, AP1-10P/22	Kosirev N.N. ....	EP2-12P/3
Kirpicheva O.A. ....	CP1-7P/19	Kosmachev O.A. ....	BP2-1P/3
Kiselev D.A. ....	EQ2-5P/8	Kosmyna M.B. ....	DB-8O/8
Kiseliov V.K. ....	DA-4O/8	Kosogor A. ....	BP1-6P/4
Kisielewski J. ....	BB-3L/2	Kostishin V.G. ....	DP-9P/29
Kislyak I.F. ....	AP1-10P/8	Kostuk A.D. ....	EA-5O/8
Klapshina L. ....	EP1-8P/6	Kostyk L.V. ....	EP1-8P/24
Klein A. ....	AP1-10P/16	Kostyrya S.A. ....	EQ1-2P/4
Klevets Ph.N. ....	BP2-1P/3	Kosyanov D.Yu. ....	EP1-8P/1
Kliava J. ....	BQ-1P/12	Kotlyar O.V. ....	DP-9P/3
Klimin S.A. ....	DA-4O/5	Kotov L.N. . CP1-7P/20, CP1-7P/19, CP1-7P/18	
Klimov A. ....	EA-5O/2	Koval' A.A. ....	DP-9P/27
Klimov A.Yu. ....	DQ1-4P/6	Kovalchuk A.O. ....	DP-9P/21
Klopotov R.V. ....	BP1-6P/21	Kovalenko N.O. ....	EP1-8P/21, DB-8O/2
Klos J.W. ....	DA-4O/1	Kovalenko O.V. ....	EQ1-2P/5, DQ2-2P/4
Klym H. ....	DQ1-4P/39	Kovalenko V.F. ....	DP-9P/30
Knerelman E.I. ....	DP-9P/1	Kovalev A.S. ....	CP2-3P/4
Knyazev B.A. ....	DQ1-4P/35	Kovalev I.A. ....	EQ2-5P/19
Kokhanchik L.S. ....	DQ1-4P/12	Kovalev V.I. ....	DQ1-4P/13
Kokorin V.V. ....	BP1-6P/15, BP1-6P/13, BP1-6P/11, BP1-6P/5	Kozak D. ....	EP1-8P/4
Koledov V.V. ....	BP1-6P/14, BP1-6P/10, BP1-6P/9, BP1-6P/5	Kozhukhar P.V. ....	DQ1-4P/23
Kolenov I.V. ....	DA-4O/8	Kozlova L.E. ....	BP1-6P/15
Kolomietc T.Yu. ....	DP-9P/45	Kozlovskiy A.A. ....	DP-9P/19
Kolomiets A.V. ....	BP1-6P/15	Kraetschmer W. ....	BQ-1P/9
Kolybaeva M. ....	DQ1-4P/17	Kraev A.S. ....	CP2-3P/3
Komar A.A. ....	DQ1-4P/9	Krasnovyd S.V. ....	DC-9O/5, BQ-1P/19
Komova M.G. ....	AP1-10P/1	Krauklis I.V. ....	BP2-1P/11
Konchits A.A....	DC-9O/5, DP-9P/13, BQ-1P/19	Kraus H. ....	DB-8O/5
Kondovych S.V. ....	CP2-3P/1	Kravchuk O.A. ....	CP2-3P/18
Kondrashov S.V. ....	DP-9P/7	Kravets A.F. ....	BB-3O/6, BP1-6P/3
Konnik O.V. ....	EP1-8P/27, EP1-8P/26	Krawczyk M. ....	DA-4O/1
Konnova S.A. ....	AP2-11P/2	Krivoruchko V.N. ....	AC-1L/1
Kononenko V.V. ....	BP1-6P/16	Krivtsova A.V. ....	BP2-1P/4
Konoplyuk S.M. ....	BP1-6P/15, BP1-6P/13, BP1-6P/11, BP1-6P/5	Kruglyak V.V. ....	BA-7L/2
Konovalov A.A. ....	DP-9P/45	Krupa M.M....	DQ1-4P/3, DQ1-4P/1, DP-9P/29
Konstantinova T.E. ....	DP-9P/37	Krut'ko V.A. ....	AP1-10P/1
Koop B.C. ....	BB-3O/5	Krutyansky L.M. ....	BP1-6P/21
Koplak O.V. ....	DQ1-4P/34	Kruzina T.V. ....	EQ2-5P/11
Kopylovsky M. ....	DQ1-4P/17	Kryshchuk T.V. ....	DP-9P/43
Kopylovsky M.A. ....	DQ1-4P/37	Kryvonogov S.I. ....	DP-9P/46
Korchemskaya E. ....	AP1-10P/15	Kuchin D. ....	BP1-6P/14
Korduban A.M. ....	DP-9P/43	Kudryakova N.O. ....	AP2-11P/3
Korenivski V. ....	BB-3O/6, BB-3O/5, BP1-6P/3	Kudryavtsev A.V. ....	DQ1-4P/16
Korolyuk A.P. ....	BP1-6P/17	Kudryavtsev R.V. ....	CP2-3P/20
Korostil A.M. ....	DQ1-4P/3	Kudryavtsev Y.V. ....	BP1-6P/3
		Kulchitskiy A.N. ....	EP1-8P/18
		Kulchitskiy N.A. ....	EP1-8P/18, EP1-8P/17
		Kulik M.M. ....	BB-3O/6

Kulish N.P. ....	DP-9P/15	Levchenko G.G. ....	EQ2-5P/5, EP2-12P/12, BQ-1P/41, BQ-1P/40, BQ-1P/39, BQ-1P/36, BP2-1P/21
Kun'kova Z.E. ....	DQ1-4P/13	Levy S.V. ....	DQ1-4P/23
Kupriyanov M.Yu. ....	BQ-1P/24	Lewicska S. ....	EC-100/2
Kurgan N.A. ....	AP1-10P/17	Li Y. ....	BQ-1P/42
Kurilo I.V. ....	DP-9P/14	Liaw P.K. ....	EQ1-2P/2
Kurlyandskaya G.V. ....	DQ2-2P/10	Lin C.R. ....	DA-40/7
Kushnerev A.I. ....	EQ1-2P/10	Linchevskiy I.V. ....	BP1-6P/23, BP1-6P/22
Kutko K.V. ....	CP2-3P/22	Linert W. ....	EP1-8P/28
Kutlubaeva Yu.I. ....	BP1-6P/20	Linnik A.I. ....	DP-9P/24, DP-9P/4, BQ-1P/32, BQ-1P/31
Kutniy K.V. ....	AP1-10P/8	Linnik T.A. ....	BQ-1P/32
Kutrovskaya S.V. ....	DP-9P/24	Lipicska L. ....	DB-80/9
Kuts V.O. ....	DP-9P/10	Lisyansky A.A. ....	DA-40/2
Kutsenko P.A. ....	AP1-10P/22	Litichevsky V.A. ....	DB-80/10
Kutseva N. ....	DQ2-2P/11	Litsis O. ....	EP1-8P/4
Kuz'micheva G.M. ....	EQ2-5P/7	Litvinchuk A.P. ....	AC-1L/3
Kuzmin D.A. ....	CP1-7P/11	Litvinenko S.V. ....	EC-100/5
Kuznetsov K.B. ....	DP-9P/42, AP1-10P/26	Liukkonen M. ....	AA-6L/1
Kuznetsov S.P. ....	EP2-12P/8	Locatelli N. ....	CP1-7P/4
Kuznetsova V.V. ....	BQ-1P/40	Loginov N.N. ....	DA-40/10
Kuzyk O.V. ....	DP-9P/14	Logosha A.V. ....	BQ-1P/21
Kyrylchuk V.V. ....	EQ1-2P/15	Logunov M.V. ....	DA-40/10
<b>L</b>		Loktev V.M. ....	BB-3L/1
L'vov V.A. ....	BP1-6P/4	Lozenko A.F. ....	CP2-3P/7, BB-30/6
Labbe C. ....	DC-9L/2	Lubyaniy L.Z. ....	CP2-3P/25
Lafrentz M. ....	DA-40/6	Luchechko A.P. ....	EP1-8P/24
Laktionova M.O. ....	EQ1-2P/6	Lue C.S. ....	BQ-1P/9
Lalaiants O. ....	DB-80/7	Lugovs'ky N. ....	DQ1-4P/32
Lalayants A.I. ....	DB-80/2	Lukienko I.M. ....	DQ1-4P/28, DQ1-4P/26, DQ1-4P/25, DQ1-4P/24
Laletin V.M. ....	EQ2-5P/4, EQ2-5P/2	Lukin A.A. ....	EQ1-2P/23
Lamonova K. BQ-1P/20, BQ-1P/10, BP2-1P/19, AC-10/7, AC-1L/2		Lukshina V.A. ....	EQ1-2P/1, DQ2-2P/10
Lannik N.I. ....	EC-100/4	Lupu A. ....	DA-4L/4
Lanska N. ....	CB-60/2	L'vov V.A. ....	CB-60/6
Larin V. ....	DQ2-2P/11	Lyange M.V. ....	BP1-6P/14, BP1-6P/12
Lasek M.P. ....	CP1-7P/19	Lyashenko N. ....	EQ1-2P/18
Launetz V.L. ....	CP1-7P/16	Lyogenkaya A.A. ....	BQ-1P/21
Lavrinenko N.M. ....	EQ2-5P/17	Lysenko A.B. ....	DP-9P/38
Lavrov S.D. ....	DQ1-4P/15, DQ1-4P/12, DQ1-4P/11	Lysenko V. ....	DQ1-4P/37
Lazarenko O. ....	AP1-10P/11	Lysenko V.S. ....	EP1-8P/15
Lazarenko O.A. ....	CP1-7P/16	Lysetska O.K. ....	DB-80/3
Lazarev I.V. ....	EP1-8P/29, DB-80/11	Lysov V.I. ....	EQ1-2P/9, EQ1-2P/8
Lazuta A.V. ....	AC-10/5	Lyubchanskii I.L. ....	DA-40/1, BB-30/4
Lebyedyeva T. ....	EP1-8P/4	Lyubutin I.S. ....	DP-9P/31, BQ-1P/11
Ledenev N.A. ....	BQ-1P/37	<b>M</b>	
Lee Seung Joo. ....	BB-30/2	Ma Chong-Geng. ....	DB-80/1
Lee Y.P. ....	BB-30/4	Maccherozzi F. ....	EA-50/6
Lemmens P. ....	BP2-1P/20, AC-10/7, AC-1L/2, AB-1L/1	Machnyev O.M. ....	DQ1-4P/23
Len T.A. ....	DP-9P/6, CP1-7P/16	Magadeyev Ye.B. ....	BP2-1P/8
Lepikh Ya.I. ....	EP1-8P/20	Makarenko S.Yu. ....	DQ2-2P/3
		Makmak I.M. ....	EP2-12P/12

Makovetskii G.I.....	BQ-1P/31	Mikhailik V.B.....	DB-80/6, DB-80/5
Maksimov V.V. ....	EQ1-2P/5, EQ1-2P/4, DQ2-2P/4	Mikhailov V.I.....	BQ-1P/32
Maksimova E.M.....	EQ1-2P/14, EQ1-2P/13, AP1-10P/24	Mikhailova T.V.....	DQ1-4P/27, DQ1-4P/26, DQ1-4P/25, DQ1-4P/24
Malakhovskii A.V. ....	DQ1-4P/19	Mikhlin Yu.L.....	EP2-12P/7
Malashenko T.I.....	BQ-1P/7	Miloslavskaya O.V....	DQ1-4P/26, DQ1-4P/25, DQ1-4P/24
Malashenko V.V.....	BQ-1P/7	Milyukova E.T.....	AP1-10P/24
Malashkevich G.E. ....	EP1-8P/7, EP1-8P/6	Mironov V.L.....	DC-90/3, DP-9P/22
Maloshtan S.M. ....	DP-9P/10	Mironyuk A.V.....	EQ1-2P/13
Malyuchkov A.S. ....	EQ1-2P/28	Mishina E.D.....	EQ2-5P/12, DQ1-4P/15, DQ1-4P/12, DQ1-4P/11, AB-4L/2
Mandal P. ....	AC-10/4	Mitina N. ....	EC-100/2
Manilov A.I. ....	EP2-12P/5	Mitsiuk V.I.....	EB-20/1
Manoilov E.G.....	AP1-10P/12	Mochalin V.N.....	BQ-1P/14
Manzhelii E.V. ....	DP-9P/3	Mohseni M.....	CP1-7P/2
Marchenko S.V.....	AP1-10P/4, AP1-10P/3	Moiseev A.A. ....	DQ2-2P/10
Marianchuk T.Yu. ....	CP1-7P/8	Moiseeva L.V.....	EP1-8P/16
Markin Yu.V.....	DQ1-4P/13	Moiseeva T.N. EQ1-2P/7, EQ1-2P/5, EQ1-2P/4	
Martynenko E.V.....	DB-80/11	Mokhnenko M.I.....	DP-9P/4
Mashirov A.V.....	BP1-6P/5	Moklyak V.V. ....	DP-9P/12
Maslov V.P. ....	AP1-10P/12	Molchanov A.N.....	BQ-1P/19
Mateychenko P.V.....	DB-80/8	Möller A. ....	AC-1L/3, AB-1L/1
Mathur N.D.....	EA-50/6	Molokeev M.S. ....	BQ-1P/2
Matsukawa M.....	EA-50/4	Morgunov R.B. ....	DQ1-4P/34
Matukhin V.L. ....	BQ-1P/8	Morosov A.I.....	BQ-1P/1
Matveev D.V.....	EB-20/2	Moshnyaga V. ....	EQ2-5P/12
Matveevskaya N.A. ....	EP1-8P/10	Mostovoy S.O.....	AP1-10P/24
Matzui L.Yu. ....	DP-9P/11, DP-9P/6, CP1-7P/16	Mostovshchikova E.V.....	DA-40/3
Mazalski P.....	BB-3L/2	Moya X. ....	EA-50/6
Maziewski A. ....	CP2-3P/5, BB-3L/2	Mozul' K.A. ....	DP-9P/27
Mazur A.S. ....	BQ-1P/37, BQ-1P/31, AC-10/6	Mukhamadeev T.R. ...	AP1-10P/10, AP1-10P/9
Mazurenko R.V.....	DP-9P/9	Mukhin A.B... EQ2-5P/9, CP2-3P/17, BQ-1P/36	
McDonough J.K.....	BQ-1P/14	Mukovskii Ya.M.....	BQ-1P/30, AC-10/5
Medvedev A.V.....	EQ2-5P/15, EQ2-5P/14	Mulyukov R.R.....	BP1-6P/10, BP1-6P/9
Medvedev Yu.V.....	EQ2-5P/9, CP2-3P/17, BQ-1P/36, BQ-1P/34, AP1-10P/16	Mun G.A. ....	DP-9P/41, DP-9P/40
Meleshko A.G.....	BP2-1P/4	Muratov V.B. ....	AP1-10P/6
Melkov G.A.....	BA-70/2	Murin I.V. ....	BP2-1P/16
Melnichuk I.A.....	BQ-1P/27	Murshudli M.N. ....	DP-9P/17
Melnik T.N.....	CP2-3P/23	Murtazin R.R. ....	CP2-3P/19
Melnikov A.A. ....	EP1-8P/18, EP1-8P/17	Musabirov I.I.....	BP1-6P/10, BP1-6P/9
Melnikov O.A.....	EP1-8P/18	Mushenok F.B. ....	BQ-1P/42
Melnikova E.A. ....	DQ1-4P/10, DQ1-4P/9	Musienko D. ....	BP1-6P/6
Menschikova T.K.....	DQ1-4P/18	Muzhev V. ....	AP1-10P/11
Menschikova T.N. ....	BP2-1P/12	Muzychenko A.A.....	DP-9P/12
Merzhanov A.G. ....	DC-90/7	Mykhailenko N.O.....	AP1-10P/20
Meshkov I.V. ....	EP2-12P/8	Myoung Nojoon .....	BB-30/2
Meshkova S.B.....	EP1-8P/26	Mytsyuk B.M.....	CP2-3P/2
Metlov L.S. ....	CP2-3P/11		
Mezin N.I.....	CP2-3P/16, AP1-10P/16	N	
Michalak K.....	DB-80/12	Nadutov V.M. ....	DQ2-2P/3, DQ2-2P/2, DQ2-2P/1, DC-90/8, DP-9P/12, BP1-6P/15, BP1-6P/11
Michelmann M.....	EQ2-5P/12	Nakhodkin N.G.....	DP-9P/15
Michlin Yu.L. ....	DQ1-4P/35		
Mikhailichenko T.V. ....	BP2-1P/16		

Nauhatsky I.A. .... EQ1-2P/13, AP1-10P/24  
 Naumenko E.A. .... EC-100/4  
 Naumov S.V. .... DQ1-4P/18  
 Nazarenko B.P. .... DB-80/8  
 Nazarov A.N. .... EP1-8P/15  
 Nazarov V.N. .... CP2-3P/19  
 Nedelko N. .... EC-100/2  
 Nediello M. .... EP1-8P/25, EP1-8P/4  
 Nediello S. .... EP1-8P/6, EP1-8P/5  
 Nediello S.A. .... EP1-8P/7, EP1-8P/4, DB-80/4  
 Nediello S.G. .... EP1-8P/25, EP1-8P/8, EP1-8P/7,  
 EP1-8P/4, EP1-8P/1, DB-80/4  
 Nedukh S.V. .... DP-9P/26  
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 Nepochatih Yu.I. .... CP2-3P/11  
 Nevdacha V.V. .... DP-9P/10, CP2-3P/2, BB-30/6  
 Nikiforov A.I. .... EP2-12P/7  
 Nikitenko V.I. .... BB-30/7  
 Nikitin S.A. .... EB-20/1, EB-2L/2  
 Nikitina Z.K. .... BQ-1P/42  
 Nikitov S.A. .... DA-40/10, CP1-7P/7  
 Nikolaenko Yu.M. .... EQ2-5P/9, CP2-3P/17,  
 CP2-3P/16, BQ-1P/34, AP1-10P/16  
 Nikolaev S.V. .... BP2-1P/1  
 Nikolayev Yu.E. .... EQ2-5P/1  
 Nikulin Yu. .... CP2-3P/10  
 Nizameev M.S. .... EQ1-2P/7  
 Nosenko V.K. .... EQ1-2P/7, DQ2-2P/4  
 Novikov A.I. .... DQ1-4P/13  
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 Novosad S.S. .... EP1-8P/24  
 Novoselova M.V. .... AP2-11P/7  
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Obukhova P.V. .... DP-9P/41  
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 Okrushko E.N. .... EP1-8P/12  
 Oliinyk B.V. .... DQ1-4P/37  
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 Olszewski M. .... BQ-1P/15, BQ-1P/14, BQ-1P/13  
 Onischenko L.V. .... EQ1-2P/17  
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 Orel S. .... BQ-1P/20, BQ-1P/10, BP2-1P/19,  
 AC-10/7  
 Orlov V.A. .... DQ2-2P/9, CP2-3P/9, CP1-7P/3  
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Ostrovskii I.M. .... EQ1-2P/17  
 Ovanesyan N.S. .... DQ1-4P/34, BQ-1P/42  
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 Overko N.E. .... CP2-3P/25  
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 Padlyak B.V. .... BQ-1P/13  
 Panchenko M.M. .... BP1-6P/23  
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 Panich A.M. .... BQ-1P/14  
 Panikarskaya V.D. .... EP1-8P/29, DB-80/11  
 Pankov F. .... DQ1-4P/32  
 Pankratov N.Yu. .... EB-20/1  
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 Parshin A.S. .... EP2-12P/7  
 Partyka M.V. .... EP1-8P/24  
 Pashchenko A.V. .... BQ-1P/37  
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 Pashchenko V.O. .... DQ1-4P/14, BP2-1P/18  
 Pashchenko V.P. .... BQ-1P/37  
 Pashinska E.G. .... EP2-12P/1  
 Pashkevich M. .... CP2-3P/5  
 Pashkevich Yu. .... DQ2-2P/8, DP-9P/2, BQ-1P/20,  
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 Peleshchak R.M. .... DP-9P/14  
 Pellenen A.P. .... EB-20/4  
 Perekos A.E. .... BP1-6P/15  
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 Peresadchenko A.I. .... EQ2-5P/17  
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 Pernod P. .... EA-50/4, EA-50/3, EA-50/2,  
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 Pershin E.A. .... EB-20/2  
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 Petrakovskii G.A. .... BQ-1P/2  
 Petrychuk M.V. .... DP-9P/30  
 Phillips L.C. .... EA-50/6  
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Pilipenko A.N.....	DQ2-2P/1	Prokopenko V.S. ....	CP2-3P/9, CP2-3P/8, CP1-7P/3
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Pisarev R.V. ....	DA-40/6, DA-40/4	Pronin V.P.....	EQ2-5P/8, EP2-12P/6
Piven' L.A.....	DB-80/3	Proskurenko M.V.....	DQ1-4P/7
Plaksii A.G.....	DC-90/6	Prosolovich V.S.....	DP-9P/16
Plavsky V.V.....	CP2-3P/20, BP2-1P/7	Prostomolotov A.I.....	DP-9P/16
Pletnev O.N.....	BQ-1P/2	Prudnikov A.M.....	DP-9P/24, DP-9P/4
Plotnichenko V.G. ....	EP1-8P/2	Prylutskyy Yu. ....	DP-9P/6
Podkopaeva O.Yu.....	BP2-1P/11	Przybylińska H. ....	DB-80/1
Podolskiy A.V. ....	EQ1-2P/2, DP-9P/28	Psaruk I.A.....	EQ1-2P/2
Podrezov Yu.N.....	EQ1-2P/3	Pudonin F.A. ....	DP-9P/32, CP2-3P/26
Podyalovskiy D.Y. ....	EA-50/6, CP2-3P/2, BB-30/6	Pushkarchuk A.L. ....	BQ-1P/19
Pogorelov A.....	EP2-12P/10, CP2-3P/27	Puzikov V.M. ....	DP-9P/19, DB-80/8
Pogoriliy A.M.....	CP2-3P/2, BB-30/6	Pyanovskaya E.P.....	EP2-12P/7
Pogoryelov Ye.....	EP2-12P/10, CP1-7P/2	Pyatakov A.P.....	EQ2-5P/10, EA-50/1, AP1-10P/13
Pogrebnyak S.V. ....	BQ-1P/18	Pyatakova Z.A.....	EA-50/1
Pokropivniy O.V. ....	DP-9P/10	Pyeshkova V.N.....	AP1-10P/5
Poltoratskaya A.V.....	DP-9P/37	Pylnov Yu.....	BP1-6P/20, BP1-6P/19
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Polulyakh S.N.....	BQ-1P/16	Qin F.X.....	EB-2L/3, DQ2-2P/5, CP1-7P/10
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Pominova D.V. ....	AP1-10P/1	Radchenko E.I. ....	BQ-1P/34
Pomjakushina E. ....	AC-1L/2	Raevskii I.P. ....	BQ-1P/35
Ponomarenko V.I. ....	CP1-7P/10	Rakhmanov A.L.....	CP2-3P/21
Ponomarev S.L. ....	DQ1-4P/23	Randoshkin I.V.....	EP1-8P/2
Ponomaryov S.S.....	DP-9P/13	Rasing Th.....	DQ1-4P/2, BB-30/4
Popenko N. ....	BP2-1P/19, BP2-1P/18	Rassolov S.G. ....	EQ1-2P/5, EQ1-2P/4, DQ2-2P/4
Popkov A.F.....	EA-50/9	Ravlik A.G. ....	CP2-3P/25
Popkov O.V.....	DP-9P/35, DP-9P/33	Razdolski I. ....	DQ1-4P/2
Popov A.....	BP1-6P/8, BP1-6P/7	Razmyslov I.N. ....	CP1-7P/20
Popov A.S. ....	DQ1-4P/38	Real J.A. ....	BQ-1P/41, BQ-1P/39
Popov N.A. ....	EQ1-2P/25	Recher P. ....	AB-1L/1
Popov S.A. ....	EQ2-5P/11	Redka Ye.S. ....	BQ-1P/17
Popov V.....	DQ2-2P/4	Reshetnyak S.....	CP2-3P/6
Popov V.V. ....	EQ1-2P/5, EB-2L/3, DQ2-2P/6, DQ2-2P/5, CP1-7P/10	Reszka A.....	DB-80/9
Portier X. ....	DC-9L/2	Revenko Yu.F. ....	BQ-1P/37
Postivey N.....	BQ-1P/12	Revo S.L. ....	EP1-8P/25, DP-9P/9
Postol P.N.....	EP2-12P/12	Rezina E.G.....	BQ-1P/2
Potapov A.P. ....	EQ1-2P/1	Rishlicky S.V. ....	EP2-12P/3
Pozdnyakov A.O.....	BQ-1P/19	Rodina A.V. ....	DA-40/6
Preobrazhensky V.....	EA-50/4, EA-50/3, EA-50/2, CP1-7P/9, BP1-6P/20, BP1-6P/19	Rodionova T.V. ....	DP-9P/15
Prikhna T.A.....	BQ-1P/26	Rodionova V.....	EQ2-5P/16, DQ2-2P/7, BP1-6P/12
Prihodko O.V.....	BP1-6P/18	Rogov V.V.....	DQ1-4P/6
Prinz V.Ya.....	CP1-7P/3	Roschenko S.T.....	DP-9P/25
Pritula I.....	EP1-8P/23, DQ1-4P/17, DC-90/6	Rospotnyuk V.P. ....	AP1-10P/19
Pritulenko A.S. ....	EQ2-5P/20, EP2-12P/13	Rovenska L. ....	AP1-10P/14
Prokhorov A.Yu.....	BQ-1P/40, BQ-1P/36, BP2-1P/21	Rozouvan S. ....	EP1-8P/4
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Prokopenko V.K. ....	BQ-1P/37		

Rudenko O.Yu. ....	EQ1-2P/7	Semenov A.V. ....	DP-9P/19
Rudenko R.Yu. ....	CP2-3P/9, CP1-7P/3	Semenova Yu.S. ....	BP1-6P/13
Rudenko T.V. ....	CP1-7P/3	Sementsov Yu.I. ....	DP-9P/9
Rudko G.Yu. ....	DP-9P/21	Semenyakin N.V. ....	DP-9P/40
Rudycheva T.Y. ....	AP1-10P/8	Seminozhenko V.P. ....	DB-80/2
Rumanov E.N. ....	DC-90/7	Semirov A.V. ....	DQ2-2P/10
Rumyantsev V.V. ....	DQ1-4P/7	Semuk Ye.Yu. ....	BQ-1P/43
Rusavsky A.V. ....	EP1-8P/15	Senkevich S.V. ....	EQ2-5P/8, EP2-12P/6
Ryabchenko S.M. ....	CP2-3P/7, BB-30/6	Seo Kyungchul ....	BB-30/2
Ryabova A.V. ....	AP1-10P/1	Serga A.A. ....	BA-7L/3
Ryabushkin D.S. ....	BQ-1P/17	Sergeev N.A. ....	BQ-1P/15, BQ-1P/14, BQ-1P/13
Ryakhova A.G. ....	BP2-1P/7	Sergeev S.N. ....	AP1-10P/10, AP1-10P/9
Rybak Ya.B. ....	EP1-8P/1	Sergeeva O.N. ....	EQ2-5P/8, EP2-12P/6
Rybakov V.B. ....	EQ2-5P/7	Sergeyeva T.A. ....	AP1-10P/7, AP1-10P/3, AP1-10P/2
Rybalka I.A. ....	EP1-8P/22	Sergutkina O.R. ....	DP-9P/47
Ryzhikov V.D. ....	EP1-8P/22, DB-80/7, DB-80/3, DB-80/2	Shabat M.M. ....	BA-70/3
Ryzhov V.A. ....	AC-10/5	Shabunina G.G. ....	BP2-1P/14, BP2-1P/13
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Sadovska L.Ya. ....	DQ1-4P/21	Shalaev R.V. ....	DP-9P/24, DP-9P/4
Saeed Y. ....	BB-30/3	Shalykova D.B. ....	DP-9P/41, DP-9P/40
Saenko G.V. ....	EQ1-2P/9, EQ1-2P/8	Shames A.I. ....	BQ-1P/14
Safarov I.M. ....	AP1-10P/10, AP1-10P/9	Shamilov R.R. ....	DQ1-4P/33
Safonova L.P. ....	DP-9P/8	Shamonin M. ....	EQ2-5P/16
Sakharov S.G. ....	AP1-10P/27	Shanina B.D. ....	DC-90/5, BQ-1P/19
Salikhov R.B. ....	AP2-11P/1	Shaposhnikov A.N. ....	DQ1-4P/27, DQ1-4P/26, DQ1-4P/25, DQ1-4P/24, BQ-1P/43
Salikhov T.R. ....	AP2-11P/1	Shapovalov A.P. ....	BQ-1P/26, BQ-1P/25
Salyuk O.Y. ....	DQ1-4P/27, DQ1-4P/24	Shapovalov V.A. ....	BQ-1P/10
Samofalov V.N. ....	CP2-3P/25	Sharay I.V. ....	DQ1-4P/27, DP-9P/29, BQ-1P/43, AP1-10P/22
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Samoletov A.A. ....	CP2-3P/17	Shaternik A.V. ....	BQ-1P/26
Samoylov A.V. ....	AP1-10P/12	Shaternik V.E. ....	BQ-1P/26, BQ-1P/25
Sani S.R. ....	CP1-7P/2	Shavrov V.G. ....	EQ2-5P/5, CP1-7P/11, BP1-6P/18, BP1-6P/5
Sankar R. ....	AB-1L/1	Shchur D.V. ....	DP-9P/10
Sapiga A.A. ....	EQ2-5P/23, BQ-1P/15	Sheina T.V. ....	DB-80/10
Sapiga A.V. ....	EQ2-5P/23, BQ-1P/17, BQ-1P/15	Shekera O. ....	AP1-10P/11
Sapozhnikov M.V. ....	DQ1-4P/6, DP-9P/23	Shekhovtsov A.N. ....	DB-80/8
Saprykina A.V. ....	DP-9P/37	Shelagin A.V. ....	EP2-12P/8
Savchenko A.S. ....	EQ2-5P/5	Shelest V.V. ....	BQ-1P/40, BP2-1P/21
Savchuk A. ....	AP1-10P/15	Sheludko V. ....	EP1-8P/8, EP1-8P/6
Savina Yu.O. ....	DQ1-4P/14	Sherbatskii V. ....	EP1-8P/4
Savitsky B.A. ....	DP-9P/26	Shermatov B.N. ....	DQ1-4P/20, CP2-3P/24
Savitsky V.N. ....	EQ2-5P/18, DQ1-4P/28	Shermatov E.N. ....	DQ1-4P/20, CP2-3P/24
Schafler E. ....	DP-9P/28	Sherstnev I.A. ....	DP-9P/32, CP2-3P/26
Scherbatsky V.P. ....	EP1-8P/25, EP1-8P/7	Sherstyuk N.E. ....	DQ1-4P/15, DQ1-4P/11
Schetinin I. ....	BP1-6P/14	Shevchenko A.B. ....	BP2-1P/6
Schmid H. ....	EQ2-5P/18	Shevchenko D. ....	DB-80/2
Schmidt E.V. ....	BQ-1P/8	Shevchenko T.I. ....	BP1-6P/23
Schmidt M. ....	EP1-8P/13	Shevchenko V. ....	EQ1-2P/27, AP1-10P/11
Schwingschlogl U. ....	BB-30/3	Shevelkov A.V. ....	BQ-1P/9
Sedaghat Z. ....	BB-30/1	Shevtsov S.V. ....	EQ2-5P/19
Sedlakova Z. ....	DP-9P/40		
Seleznyova K. ....	BQ-1P/12		

Shevtsova T.N. ....	DQ2-2P/8, DP-9P/2, BP2-1P/20, AC-1L/2	Smarzhevskaya A.I. ....	EB-20/1, EB-2L/2
Shilov G.V. ....	BQ-1P/42	Smirnov S.N. ....	EQ1-2P/2
Shipkova I.G. ....	DP-9P/26, DP-9P/25	Smirnov V.V. ....	CP2-3P/14, CP2-3P/12
Shirkovsky P.N. ....	BP1-6P/20	Smith A. ....	CB-6O/1, AA-6L/1
Shishkin D.A. ....	EQ1-2P/1	Smolyak S.S. ....	BQ-1P/6
Shishkina N.N. ....	EP2-12P/11	Smolyar A.S. ....	DP-9P/10
Shishkova N.V. ....	CP2-3P/17	Smyntyna V.A. ....	EP1-8P/20
Shitov A.A. ....	EQ2-5P/6	Snopok B.A. ....	AP1-10P/12
Shkotova L.V. ....	AP1-10P/7	Sofronov D.S. ....	EP1-8P/21
Shmukler L.E. ....	DP-9P/8	Sofronova E.M. ....	EP1-8P/21
Shokodko A.V. ....	DP-9P/44	Sohatsky V.P. ....	EA-5O/8
Shpetnyi I.O. ....	EQ1-2P/16	Sokolov A.E. ....	DQ1-4P/35, DA-4O/9
Shpotyuk M.V. ....	EP1-8P/19	Sokolov A.P. ....	DP-9P/1
Shpotyuk O. ....	DQ1-4P/39	Sokolov V.O. ....	EP1-8P/2
Shpylovyy P. ....	EP1-8P/4	Sokolov V.V. ....	DQ1-4P/19
Shul'gin V.F. ....	EP1-8P/28, EP1-8P/27, EP1-8P/26, AP1-10P/24	Sokolovskiy V.V. ....	BQ-1P/28
Shulga N.Y. ....	DP-9P/1	Soldatkin A.P. ....	AP1-10P/4, AP1-10P/3
Shulga Y.M. ....	DP-9P/1	Soldatkin O.O. ....	AP1-10P/5
Shulgin D.A. ....	BQ-1P/8	Solianyuk P.O. ....	CP2-3P/27
Shulimov Yu.G. ....	EC-10O/5	Solin N.I. ....	BQ-1P/36
Shull R.D. ....	BB-3O/7	Solntsev K.A. ....	DP-9P/45, AP1-10P/27
Shulyma S.I. ....	DP-9P/30	Solonenko A.P. ....	EC-10O/3
Shumilov A.G. ....	DQ1-4P/31, DQ1-4P/29	Solonetski R.V. ....	BP2-1P/10
Shurinova E.V. ....	DP-9P/27	Soloviov S.V. ....	EA-5O/9
Shuvaeva V.A. ....	BQ-1P/35	Solskii I.M. ....	EQ2-5P/21
Shvedova M.A. ....	DP-9P/47	Soltani A. ....	EA-5O/3
Shvets V.A. ....	EP2-12P/3	Soman V.V. ....	EQ2-5P/22
Shykhailo P.M. ....	EQ1-2P/17	Sozinov A. ....	CB-6O/3, CB-6O/2
Shylo A.V. ....	DP-9P/37	Spassky D.A. ....	EP1-8P/2
Sidak V.M. ....	EQ2-5P/11	Spichkin Y.I. ....	AP1-10P/13
Sidorin Y.Y. ....	AP2-11P/7	Spirin A.V. ....	DA-4O/10
Sidorov S.L. ....	BQ-1P/32	Spuskanyuk V.Z. ....	DQ2-2P/2
Sigov A.S. ....	AB-4L/2	Srivastava S.K. ....	BP1-6P/12
Singh D. ....	AP1-10P/6	Starostyuk N.Yu. ....	CP2-3P/16, BQ-1P/34
Singh N. ....	BB-3O/3	Starzhinskiy N.G. ....	DB-8O/2
Singh R. ....	BP1-6P/14, BP1-6P/12	Stefanovich L.I. ....	EQ1-2P/11
Siryuk Ju.A. ....	CP2-3P/14, CP2-3P/13, CP2-3P/12	Stepanchikov D. ....	AP1-10P/15
Sitnikov A.V. ....	CP2-3P/7, CP1-7P/19	Stepanov A.L. ....	DQ1-4P/33, DP-9P/50
Sivachenko A.P. ....	BQ-1P/34	Stepanov S.V. ....	CP1-7P/4
Skibinsky K.M. ....	DQ1-4P/2	Stępień P. ....	BQ-1P/13
Skjeltorp A.T. ....	EQ1-2P/23	Stepina N.P. ....	DP-9P/13
Skokov K.P. ....	EB-2O/4, CB-6O/5	Stetsenko A.N. ....	DQ1-4P/28, CP2-3P/25, CP2-3P/22
Skorohodov E.V. ....	DQ1-4P/6, DC-9O/3, DP-9P/22	Stobieck F. ....	BB-3L/2
Skoryk M.A. ....	DC-9O/5, BQ-1P/19	Stognei O.V. ....	CP2-3P/7
Skrileva E.A. ....	DP-9P/1	Stognij A.I. ....	CP2-3P/5, CP1-7P/7
Slavin A.N. ....	CP1-7P/1, BA-7O/2, BA-7O/1, BA-7L/4	Stolyarov V.S. ....	CP2-3P/21
Ślawska-Waniewska A. ....	EC-10O/2	Straka L. ....	EP2-12P/2, CB-6O/3, CB-6O/2
Slobodyanik N.S. ....	EP1-8P/8	Strugatsky M.B. ....	EQ1-2P/14, EQ1-2P/13, DQ1-4P/2, BQ-1P/12, AP1-10P/24
Slyusarev V.V. ....	BP1-6P/13	Strutynska N. ....	EP1-8P/6
Smagin N.V. ....	BP1-6P/20	Stupakiewicz A. ....	CP2-3P/5
		Suchanicz J. ....	EQ2-5P/11
		Suchikova Y. ....	DP-9P/20

Suchocki A. .... EP1-8P/9, DB-80/12, DB-80/9, DB-80/1	Tiercelin N. .... EA-50/4, EA-50/2
Sugak D. Yu. .... EQ2-5P/21	Tikhonovsky M.A. .... EQ1-2P/6, AP1-10P/8
Sukhachev A.L. .... DQ1-4P/19	Timofeev V.A. .... EP2-12P/7
Sukhorukov Yu.P. .... DQ1-4P/18, DA-40/3	Timoshenko V. Yu. .... DQ1-4P/38
Sukhorukova O.S. .... BP1-6P/18	Tishin A.M. .... AP1-10P/13
Sukhostavets O.V. .... BA-7L/5	Titenko A.M. .... DP-9P/10
Suleimenov E.N. .... DP-9P/40	Titskaya V.D. .... EP1-8P/30
Suleimenov I.E. DC-9L/3, DP-9P/41, DP-9P/40	Tkach I. .... EQ1-2P/22
Suleymanov S.S. .... DP-9P/17	Tkachenko I. .... AP1-10P/11
Sun K. .... AC-1L/3	Tkachenko M. .... AP1-10P/14
Sutyagina A.S. .... DP-9P/15	Tkachenko V.M. .... EP2-12P/1
Suvorov A. Yu. .... BQ-1P/25	Tkachev A.V. .... BQ-1P/11, BQ-1P/9
Svyrydova K.A. .... EQ1-2P/4	Tkatch V.I. .... EQ1-2P/7, EQ1-2P/5, EQ1-2P/4
Svystunov Ye.O. .... DQ2-2P/3, DC-90/8, DP-9P/12	Todris B.M. .... BQ-1P/32
Sybilski P. .... DB-80/1	Tolmachev A.V. .... EP1-8P/14, EP1-8P/10, EP1-8P/1
Sycheva V. Ya. .... BQ-1P/37	Tolochko B. .... EQ1-2P/27
Syrkin E.S. .... DP-9P/3	Tolstik A.L. .... DQ1-4P/10, DQ1-4P/9
Szczepkowski J. .... DB-80/1	Torkunov A.V. .... DQ2-2P/6
<b>T</b>	Tortika A.S. .... EQ1-2P/6
Tabachnikova E.D. .... EQ1-2P/6, EQ1-2P/2, DP-9P/28	Tovstolytkin A.I. .... EA-50/6
Tagirov L.R. .... BQ-1P/24	Trachevs'kii V.V. .... DP-9P/12, BP1-6P/11
Tahirov M.I. .... DP-9P/17	Train C. .... BQ-1P/42
Takayanagi S. .... EA-50/4	Traore M. .... DC-9L/1
Talbi A. .... EA-50/4, EA-50/3	Trifonov A.A. .... DP-9P/50
Tamulaitis G. .... DB-80/2	Trifonov V.G. .... EQ1-2P/26
Tanygin B.M. .... DP-9P/30	Troyanovsky D.A. .... BP1-6P/5
Tapp J. .... AC-1L/3	Trubitsyn M. .... EQ2-5P/11, EP1-8P/5
Tarakanov V.V. .... BP1-6P/17	Trukhanov A.V. .... EB-20/5
Tarapov S.I. .... DP-9P/26	Trukhanov S.V. .... EB-20/5
Tarasenko A.S. .... EQ2-5P/5, BP1-6P/18	Tsaregradskaya T.L. .... EQ1-2P/9, EQ1-2P/8
Tarasenko S.V. .... EQ2-5P/5, BP1-6P/18	Tsekhosh V.I. .... EP2-12P/4
Tarasenko T.N. .... BQ-1P/31, AC-10/6	Tupitsyna I.A. .... DB-80/10
Tarenkov V. Yu. .... BQ-1P/32, BP1-6P/16, AC-1L/1	Turchenko V.O. .... EB-20/5
Taskaev S.V. .... EB-20/4	Turkov O.V. .... EQ1-2P/9, EQ1-2P/8
Tatarenko A.S. .... EQ2-5P/10	Turkov V.K. .... CP1-7P/20
Tatarskiy D.A. .... DP-9P/23	Tychko O.V. .... DQ1-4P/8
Tel'Nova G.B. .... DP-9P/45	Tyurin A. .... BP1-6P/8
Telegin A.V. .... DQ1-4P/18, DA-40/3	<b>U</b>
Temerov V.L. .... DQ1-4P/14	Ubizskii S.B. EC-100/2, EP1-8P/19, EP1-8P/13, CP2-3P/18, BQ-1P/38
Temnov V.V. .... AB-4L/3	Udalov O.G. .... DQ1-4P/6
Teplyj T.I. .... EP1-8P/24	Ulanov E. .... BP2-1P/2
Terebilenko K.V. .... EP1-8P/8	Ullakko K. .... CB-60/1, AA-6L/1
Terekhov S.A. .... EP2-12P/12, BQ-1P/41	Ulyanov A.N. .... AC-10/3
Terekhova Yu.V. .... EQ1-2P/11	Ulyanov M.N. .... EB-20/4
Tereshina E.A. .... EQ1-2P/21	Urchyk T.A. .... AP1-10P/23, AP1-10P/22
Tereshina I.S. .... EQ1-2P/21	Useinov A. .... BB-30/3
Teselko P.O. .... EQ1-2P/8	Useinov N. .... BB-30/3
Tiberkevich V.S. .... CP1-7P/1, BA-70/2, BA-70/1, BA-7L/4	Ushakova Ju.N. .... BP2-1P/16
	Ushenin Yu.V. .... AP1-10P/12
	Uspenskaya L.S. .... EA-50/7, CP2-3P/21
	Ustinov V.V. .... BQ-1P/30

Utkin A.A. ....	CP1-7P/18	Volnyanskaya I. ....	EP1-8P/5
Uvarov N.V. ....	BP1-6P/3	Volosevich P. ....	EQ1-2P/18, DQ2-2P/2
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Vakhitov R.M. ....	EQ2-5P/1, BP2-1P/10, BP2-1P/9, BP2-1P/8, BP2-1P/7	Voloshinovskii A.S. ....	EP1-8P/11, EP1-8P/3
Val'kov V. ....	BP2-1P/2	Voronov A.P. ....	EP1-8P/23
Valakh M.Ya. ....	DC-9O/5, DP-9P/13, BQ-1P/19	Voronov V.N. ....	EP2-12P/11
Valeev V.F. ....	DP-9P/50	Vovchenko L.L. ....	DP-9P/11, CP1-7P/16
Van Thuc Nguyen ....	DP-9P/8	Vovk A.Ya. ....	BP1-6P/3
Vanaie H. ....	BB-3O/1	Vovk D.K. ....	CP2-3P/9, CP1-7P/3
Varga L.K. ....	BP1-6P/12	Vovk E.A. ....	DP-9P/46
Varnakov S.N. ....	EP2-12P/3	Vovk O.M. ....	EP1-8P/10
Varyukhin V.N. ....	EQ1-2P/11, EP2-12P/9, EP2-12P/1, DP-9P/24, DP-9P/4, BP1-6P/16	Vovk Ya. ....	BB-3O/6
Vaschenko O.V. ....	EP1-8P/30	Voylov D.N. ....	DP-9P/1
Vashchuk D.L. ....	DQ2-2P/2, DQ2-2P/1	Voynash V.Z. ....	DC-9O/8
Vasil'ev B.V. ....	CP2-3P/9, CP2-3P/8	Voznyy V.L. ....	EP1-8P/1
Vasil'ev O.O. ....	AP1-10P/6	Vysotsky S.L. ....	CP1-7P/7
Vasil'eva N.V. ....	EP1-8P/2	<b>W</b>	
Vasilenko T.A. ....	BQ-1P/19	Wagner A. ....	DB-8O/5
Vasin A.V. ....	EP1-8P/15	Wawro A. ....	BB-3L/2
Vasko E.I. ....	CP2-3P/15	Wittlin A. ....	DB-8O/1
Vasylechko L. ....	EP1-8P/13, BQ-1P/38	Wu Jia-Min ....	DC-9O/2
Vasylenko T.A. ....	DP-9P/12	Wulferding D. ....	AC-1L/2, AB-1L/1
Vasyliiev A.V. ....	BQ-1P/27	<b>Y</b>	
Vdovichev S.N. ....	DP-9P/23	Yaghobi M. ....	BB-3O/1
Veligzhanin A.A. ....	EQ1-2P/12	Yagodzinskyy Y. ....	EP2-12P/2
Velikanov D.A. ....	BQ-1P/2	Yagupov S.V. ....	EQ1-2P/28, EQ1-2P/13, DQ1-4P/2, BQ-1P/12
Velmozhnaya O.S. ....	EP1-8P/30	Yakovenko E.V. ....	EQ1-2P/12
Verba R.V. ....	BA-7O/2	Yakovlev D.R. ....	DA-4O/6
Verbetsky V.N. ....	EB-2L/2	Yakubovskaya A.G. ....	DB-8O/10
Verchenko V.Yu. ....	BQ-1P/9	Yakymenko Yu.I. ....	EQ1-2P/16
Vereshchagin S.N. ....	EP2-12P/11	Yanchuk I.B. ....	DC-9O/5, BQ-1P/19
Vertegel I.G. ....	BQ-1P/18	Yang Jin-Long ....	DC-9O/2
Vertegel I.I. ....	BQ-1P/18	Yankovski Yu.N. ....	DP-9P/16
Veselago V.G. ....	BP2-1P/12	Yanushkevich K.I. ....	BQ-1P/31
Veshnyakova E.A. ....	DQ1-4P/35	Yashan H. ....	DP-9P/36
Vickers M.E. ....	EA-5O/6	Yatsenko A.V. ....	EQ2-5P/21, EQ2-5P/20, EP2-12P/13
Vikhrova O.V. ....	DQ1-4P/13	Yatsenko A.A. ....	EP2-12P/13
Vinogradov A.P. ....	DA-4O/2	Yatsyna V.O. ....	DQ1-4P/38, DQ1-4P/37, DQ1-4P/17
Vinogradov D.N. ....	DP-9P/42, AP1-10P/26	Yavari A.R. ....	EQ1-2P/3
Vinogradova G.I. ....	BP2-1P/12	Yavetskiy R.P. ....	EP1-8P/1
Vinokurov D.L. ....	BQ-1P/1	Yavorsky M.A. ....	BP2-1P/4
Virko S.V. ....	EP1-8P/7	Yefanov A.V. ....	DC-9O/5, BQ-1P/19
Vishnevskii V.G. ....	DQ1-4P/32, DQ1-4P/31	Yermolayeva Yu.V. ....	EP1-8P/14, EP1-8P/10
Vlasenko V.G. ....	BQ-1P/35	Yevdokimov S.V. ....	EQ2-5P/21, EQ2-5P/20, EP2-12P/13
Vlasov V.S. ....	CP1-7P/20, CP1-7P/19	Yevstafiyev I.I. ....	BP2-1P/17
Vlasova T.A. ....	BP2-1P/15	Yevstafiyev O.I. ....	CP1-7P/9
Vlaykov G.G. ....	BP2-1P/6	Yukhymchuk V.O. ....	DC-9O/5, DP-9P/13, BQ-1P/19
Voevodin V.N. ....	AP1-10P/23, AP1-10P/22	Yumaguzin A.R. ....	BP2-1P/10, BP2-1P/9
Voitenko T. ....	EP1-8P/7, EP1-8P/4, DB-8O/4	Yumaguzin Yu.M. ....	AP2-11P/1
Volk T.R. ....	DQ1-4P/12		
Volkova E.G. ....	EQ1-2P/1		

Yurchenko V.M. .... EQ1-2P/11, CP2-3P/23  
 Yurkov G.Yu..... DP-9P/35, DP-9P/7  
 Yuzepovich O.I..... BQ-1P/23

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Zabluda V.N..... EP2-12P/3, DQ1-4P/35,  
 DQ1-4P/19  
 Zagorodniy Yu.A. .... BQ-1P/6  
 Zagorulko I.V..... DP-9P/38  
 Zaichenko A..... EC-100/2  
 Zainullina R.I..... BQ-1P/30  
 Zakharov A.G..... CP2-3P/3  
 Zakiryanov F.K..... CP1-7P/17  
 Zatovsky I..... EP1-8P/8, EP1-8P/6  
 Zatsopilin S.E..... CP2-3P/9, CP1-7P/3  
 Zavgoveev A.V..... EP2-12P/1  
 Zehetbauer M.J..... DP-9P/28  
 Zeng Qing-Chuan..... DC-90/2  
 Zenya I.M..... DB-80/2  
 Zhang Xiao-Yan..... DC-90/2  
 Zhitlukhina E..... BQ-1P/10, BP2-1P/19  
 Zhmurin P.N..... EP1-8P/30

Zhukov A..... DQ2-2P/7  
 Zhukov A.V. .... DB-80/2  
 Zhukova V..... DQ2-2P/7  
 Zhybak M.T..... AP1-10P/6  
 Zhydachevskii Ya..... EP1-8P/9, DB-80/12,  
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 Zinchenko O.A. .... AP1-10P/3  
 Zinova O.S. .... CP2-3P/27  
 Zinowuk A.V..... CP2-3P/11  
 Zolotareno O.P..... DP-9P/10  
 Zorchenko V.V. .... DQ1-4P/28, CP2-3P/22  
 Zorenko Yu. .... DB-80/1  
 Zotov I.S..... CP1-7P/14  
 Zubavichus Ya.V..... EQ1-2P/12, DQ1-4P/35,  
 BQ-1P/35  
 Zufman V.Yu. .... DP-9P/42, AP1-10P/26  
 Zvezdin A.K.... EQ2-5P/10, EA-50/9, EA-50/1,  
 DA-4L/3  
 Zvezdin K.A..... CP1-7P/4  
 Zvonkov B.N. .... DQ1-4P/13  
 Zyman Z..... AP1-10P/14

