

International Conference
“Functional Materials”

ICFM-2011

PROGRAM

Ukraine, Crimea, Partenit
October 3 – 8, 2011

International Conference “*Functional Materials*”

Organizers:

Ministry of Education, Science, Youth and Sports 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

STC “Institute for Single Crystals” of NASU

Institute for Scintillation Materials of NASU

Taras Shevchenko National University of Kyiv

National Technical University of Ukraine “KPI”

Joint International Laboratory “LEMAC”

UNESCO Chair “Renewable Energy and Sustainable Development”

with cooperation

Taurida Humanitarian & Ecological Institute

Center MR&HRT “Krym” (Partenit)

”Zdravnitsy Yuga”

ICFM'2011. 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'2011

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<http://icfm.net.ua/>

Information for participants

LOCATION

The conference will be held in Partenit. Partenit is a small city on the Southern Coast of Crimea. Accommodation will be available at the Center of medical rehabilitation and health-resort treatment "Krym".

CONFERENCE SESSIONS will be held in the Cinema of the "Krym" Health-Resort. 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" and Scientific Notes of Taurida National V.I. Vernadsky University 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. So, to reach the railway station you can use a bus from Partenit to Simferopol. For seeing the nearest places of interest (Yalta, Livadiya) you can get a taxi. Nearby the main entrance of the "Krym" Health-Resort there is a taxi stop.

CULTURE PROGRAM

Monday, October 3, at 20.00 – Welcome party

Tuesday, October 4 at 20.00 – Concert

Wednesday, October 5, at 14.30 – Tasting of Crimean Vine collection (Yalta)

Thursday, October 6, at 20.00 – Concert

Friday, October 7, at 20.30 – 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, D, F, L - Oral Sessions; P, Q, R, S, LP - Poster Sessions;
7 – Sessions of Brokerage

Schedule of Conference

Date	Time	Session	Oral presentations (Hall)	Poster presentations (Foyer)
Monday, October 3 (Day A)	9.30-11.15	Session AA	Conference opening. Plenary Session I	
	11.30-13.00	Session AB	Plenary Session II	
	15.00-17.00	Session A7.1	FP7 Event: Transnational Brokerage I	
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		Session AC	Section 1. Fundamental Physics of Functional Materials I	
	20.15-22.30	Culture program	Welcome party	
Tuesday, October 4 (Day B)	9.00-11.00	Session BA	Memory Session. 100-th Anniversary of A.I. Akhiezer. Modern Problems of Spin Dynamics	
		Session B7.1		FP7 Event: Transnational Brokerage III (Aud. 5.1)
	11.15-13.15	Session BB	Section 7. Magnonics. Microwave Materials and Metamaterials I	
		Session B7.2		FP7 Event: Transnational Brokerage IV (Aud. 5.1)
	9.00-14.00	Session BP		Section 6. Magnetoelastic and Adaptive Materials
		Session BQ		Section 2. Soft and Hard Magnetic Materials
	15.00-19.00	Session BC	Section 7. Magnonics. Microwave Materials and Metamaterials II	
		Session BR		Section 1. Fundamental Physics of Functional Materials I
	20.00-21.30	Culture program	Concert	
Wednesday, October 5 (Day C)	9.00-12.00	Session CA	Section 6. Magnetoelastic and Adaptive Materials	
	12.00-13.15	Session CB	Section 3. Spintronics. Transport Phenomena. Multilayers	
		Session CP		Section 4. Electrooptic and Magneto optic Materials
	9.00-13.00	Session CQ		Section 5. Piezoelectric and Magneto electric Materials. Multiferroics
	14.00-20.00	Culture program	Crimean Wine Tasting	

Date	Time		Oral presentations (Hall)	Poster presentations (Foyer)	
Thursday, October 6 (Day D)	9.00-13.00	Session DA	Section 4. Electrooptic and Magneto optic Materials		
	9.00-11.00	Session DL.1	Workshop LOD & Section 8. Ionizing Radiation Sensing Materials I		
	11.15-13.00	Session DL.2	Workshop LOD & Section 8. Ionizing Radiation Sensing Materials I		
	9.00-14.00	Session DP		Section 9. Nanophysics & Nanotechnologies for Functional Materials	
		Session DC	Section 9. Nanophysics & Nanotechnologies for Functional Materials		
	15.00-19.00	Session DQ		Section 3. Spintronics. Transport Phenomena. Multilayers	
		Session DR		Section 7. Magnonics. Microwave Materials and Metamaterials	
	20.00-21.30	Culture program	Concert		
Friday, October 7 (Day E)	9.00-11.00	Session EA	Section 1. Fundamental Physics of Functional Materials II		
	11.15-13.30	Session EB	Section 5. Piezoelectric and Magnetolectric Materials. Multiferroics		
	9.00-14-00	Session EP		Section 10. Materials for Medical and Environmental Applications. Biosensors	
		Session ELP		Workshop LOD & Section 8. Ionizing Radiation Sensing Materials	
	15.00-17.45	Session EC	Section 10. Materials for Medical and Environmental Applications. Biosensors		
	15.00-16.30	Session EL.1	Workshop LOD & Section 8. Ionizing Radiation Sensing Materials II		
	16.45-18.00	Session EL.2	Workshop LOD & Section 8. Ionizing Radiation Sensing Materials II		
	15.00-18.00	Session EQ		Section 1. Fundamental Physics of Functional Materials I	
	18.00-18.30		Closing		
	20.00-23.00		Conference dinner		

Monday, October 3

9.30-11.15**Session AA.****Conference opening. Plenary Session I****Chairmen:** Bar'yakhtar V., Berzhansky V., Zvezdin A.**AA-L1****Spin waves and spin currents in magnetic nanosystems** (*Invited*)

Demokritov S.O.

*Institute for Applied Physics, University of Muenster, Muenster, Germany***AA-L2****Spin transfer induced vortex dynamics: from phase locking experiments in MTJ based devices to complex oscillators with coupled vortices** (*Invited*)Cros V.¹, Locatelli N.¹, Dussaux A.¹, Bortolotti P.¹, Grollier J.¹, Khvalkovskiy A.^{1,2}, Zvezdin K.A.², Naletov V.V.³, Fukushima A.⁴, De Loubens G.³, Yuasa S.⁴, Klein O.³, Ando K.⁴, Fert A.¹¹*Unité Mixte de Physique CNRS/Thales and Université Paris Sud 11, Palaiseau, France*²*A.M. Prokhorov GPI, Moscow, Russia and Istituto P.M., Torino, Italy*³*Service de Physique de l'Etat Condensé, CEA, Gif-sur-Yvette, France*⁴*National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan***11.30-13.00****Session AB.****Plenary Session II****Chairmen:** Gorobets Yu., Sigov A.**AB-L1****Magnetic and superconducting properties of iron-based superconductors. A muon spin relaxation study** (*Invited*)Luetkens H.¹, Khasanov R.¹, Shermadini Z.¹, Klauss H.-H.², Pashkevich Y.³¹*Laboratory for Muon-Spin Spectroscopy, Paul Scherrer Institut, Villigen PSI, Switzerland*²*Institut für Festkörperphysik, TU Dresden, Germany*³*Galkin Donetsk Phystech NASU, Donetsk, Ukraine***AB-L2****Giant magnetocaloric effect in CMR manganites** (*Invited*)

Bebenin N.G.

*Institute of Metal Physics, Ural Division of RAS, Ekaterinburg, Russia***AB-L3****Second harmonic generation as a tool for studying functional materials** (*Invited*)

Pavlov V.

Ioffe Physical-Technical Institute of the Russian Academy of Sciences, St. Petersburg, Russia

15.00-17.00 Session A7.1.
FP7 Event: Transnational Brokerage I

17.00-19.00 Session A7.2.
FP7 Event: Transnational Brokerage II

17.00-19.00 Oral Session AC.
Section 1. Fundamental Physics of Functional Materials I

Chairmen: Bebenin N., Curély J.

AC-1L/1 Griffiths phase, metal-insulator transition, magnetic and magnetoresistive properties of doped manganites (Invited)

Krivoruchko V.N., Marchenko M.A.

Donetsk Physics & Technology Institute, NAS of Ukraine, Donetsk, Ukraine

AC-1L/2 Spin-phonon interaction and lattice dynamics anomalies in superconductive iron chalcogenides (Invited)

Pashkevich Yu.¹, Gnezdilov V.², Gusev A.¹, Shevtsova T.¹,
 Lamonova K.¹, Lemmens P.³, Wulferding D.³, Gnatchenko S.²,
 Pomjakushina E.⁴, Conder K.⁴, Tsurkan V.⁵

¹*A.A. Galkin Donetsk Phystech, NASU, Donetsk, Ukraine*

²*B.I. Verkin Inst. for Low Temp. Physics and Eng., NASU, Kharkov, Ukraine*

³*Institute for Condensed Matter Physics, TU Braunschweig, D-, Germany*

⁴*Laboratory for Developments and Methods. PSI, Villigen PSI, Switzerland*

⁵*Institute of Applied Physics, Acad. of Sciences of Moldova, Chisinau, R. Moldova*

AC-1L/3 Magnetic properties of 2D Heisenberg classical square lattices: theory vs experiments (Invited)

Curély J.

Laboratoire Optique et Matériaux d'Aquitaine, Université Bordeaux I, Talence Cedex, France

AC-10/1 Superconductivity: from physics to quantum information fundamentals (Invited)

Gomonay H.V.

¹*National Technical University of Ukraine «KPI», Kyiv, Ukraine*

²*Bogolyubov Institute for Theoretical Physics NAS of Ukraine, Kyiv, Ukraine*

Tuesday, October 4

9.00-11.00**Session BA.****Memory Session. 100-th Anniversary of A.I. Akhiezer devoted:
Modern Problems of Spin Dynamics****Chairmen:** Bar'yakhtar V.G., Ignatchenko V.A.**Memory talk**

Bar'yakhtar V.G.

*Institute of Magnetism, Kyiv, Ukraine***BA-O1 Magnetoelastic waves in the ferromagnetic shape memory alloys near martensite phase transition (Invited)**Bar'yakhtar V.G.¹, Danilevich A.G.¹, L'vov V.A.^{1,2}¹*Institute of Magnetism, Kyiv, Ukraine*²*Department of Radiophysics, Taras Shevchenko University, Kyiv, Ukraine***BA-L1 Spin waves in ferromagnets with periodic and random inhomogeneities (Invited)**

Ignatchenko V.A.

*L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia***BA-L2 Propagation of spin wave excited by femtosecond pulses (Invited)**Sato T.^{1,2}, Terui Y.¹, Moriya R.¹, Ivanov B.A.³, Ando K.⁴,
Saitoh E.^{4,5,6}, Shimura T.¹, Kuroda K.¹¹*Institute of Industrial Science, University of Tokyo, Tokyo, Japan*²*PRESTO, Japan Science and Technology Agency, Tokyo, Japan*³*Institute of Magnetism, Ukrainian Academy of Science, Kiev, Ukraine*⁴*Institute for Materials Research, Tohoku University, Sendai, Japan*⁵*CREST, Japan Science and Technology Agency, Tokyo, Japan*⁶*The Advanced Science Research Center, Japan Atomic Agency, Tokai, Japan***BA-L3 Ultrafast longitudinal exchange evolution of spins in ferrimagnets (Invited)**Afanasiev D.V.¹, Bar'yakhtar V.G.¹, Ivanov B.A.¹, Mentink J.H.²,
Hellsvik J.³, Eriksson O.³, Kimel A.V.², Kirilyuk A.I.², Katsnelson M.I.²,
Rasing Th.²¹*Institute of Magnetism, NASU, Kiev, Ukraine*²*Radboud University Nijmegen, Nijmegen, the Netherlands*³*Department of Physics and Astronomy, Uppsala, Sweden***9.00-11.00****Session B7.1.****FP7 Event: Transnational Brokerage III**

11.15-13.15**Oral Session BB.****Section 7. Magnonics. Microwave Materials and Metamaterials I**

Chairmen: Demokritov S., Ivanov B.

BB-7L/1 Spin-torque vortex nano oscillators: from fundamentals to applications (Invited)

Dussaux A.¹, Locatelli N.¹, Bortolotti P.¹, Grollier J.¹, Cros V.¹, Fert A.¹, Khvalkovskiy A.V.², Krasheninnikov A.V.², Zvezdin K.A.^{2,3}, Zvezdin A.K.^{2,3}, Fukushima A.⁴, Konoto M.⁴, Kubota H.⁴, Yakushiji K.⁴, Yuasa S.⁴, Ando K.⁴

¹*Unite Mixte de Physique CNRS/thales and Universite Paris Sud 11, Palaiseau, France*

²*M.Prokhorov General Physics Institute of RAS, Moscow, Russia*

³*Istituto P.M. srl, Torino, Italy*

⁴*National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan*

BB-7L/2 Experimental characterization of spin-torque nano-oscillators in a driven regime (Invited)

Slavin A.N. and Tiberkevich V.S.

Oakland University, Rochester, MI, USA

BB-7L/3 Identification and selection rules of the spin-wave eigen-modes in a normally magnetized nano-pillar (Invited)

Klein O.¹, de Loubens G.¹, Naletov V.V.^{1,2}, Grollier J.³, Locatelli N.³ and Cros V.³

¹*Service de Physique de l'État Condensé, CEA Saclay, Gif-Sur-Yvette, France*

²*Physics Department, Kazan Federal University, Kazan, Russian Federation*

³*Unité Mixte de Physique CNRS/Thales and Université Paris Sud 11, Palaiseau, France*

BB-7L/4 Vortex state excitations in small ferromagnetic particles (Invited)

Guslienko K.^{1,2}

¹*Dpto. Fisica de Materiales, Universidad del Pais Vasco, San Sebastián, Spain*

²*IKERBASQUE, The Basque Foundation for Science, Bilbao, Spain*

11.15-13.15**Session B7.2.****FP7 Event: Transnational Brokerage IV**

Section 6. Magnetoelastic and Adaptive Materials

Chairmen: Kokorin V., Khovailo V.

- BP-6P/1 Magnetocaloric effect in Ni-Fe-Mn-Ga Heusler alloys**
 Fayzullin R.R.¹, Drobosyuk M.O.¹, Buchelnikov V.D.¹, Taskaev S.V.¹, Khovaylo V.V.²
¹*Chelyabinsk State University, Chelyabinsk, Russia*
²*National University of Science and Technology "MISiS", Moscow, Russia*
- BP-6P/2 Theoretical and experimental investigation of magnetocaloric effect in Heusler Ni_{2.19-x}Fe_xMn_{0.81}Ga alloys (x = 0.01 - 0.04)**
 Sokolovskiy V.V., Buchelnikov V.D., Drobosuyk M.O., Faizullin R.R.
Chelyabinsk State University, Chelyabinsk, Russia
- BP-6P/3 Electronic structure, magnetic, optical and transport properties of Fe₂MnGa Heusler alloy**
 Kudryavtsev Y.V.¹, Dubowik J.², Uvarov N.V.¹, Iermolenko V.N.¹
¹*Institute of Metal Physics NAS of Ukraine, Kiev, Ukraine*
²*Institute of Molecular Physics PAS, Poznan, Poland*
- BP-6P/4 Intermartensitic transitions in Ni-Mn-Ga alloy**
 Slyusarev V.V.², Konoplyuk S.M.¹, Kokorin V.V.¹, Semenova Yu.S.¹, Polyakov P.I.¹
¹*Institute of magnetism NAS of Ukraine, Kiev, Ukraine*
²*Physics of mining processes institute NAS of Ukraine, Donetsk, Ukraine*
- BP-6P/5 The self-excited oscillation from martensite transformation in the Ni₂MnGa thin films**
 Krupa M.M., Skirta Y.B.
Institute of Magnetism of the national academy of sciences of Ukraine, Kyiv
- BP-6P/6 Temperature evolution of electronic and magnetic structure in Ni-Mn-Ga magnetic shape memory martensite**
 Glavatskyy I.^{1,2}, Musienko D.¹, Glavatska N.¹
¹*Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*
²*Hahn-Meitner-Institut, BENSC, Berlin, Germany*
- BP-6P/7 Conductivity changes due to martensitic transition in Cu-Al-Mn alloy**
 Kudryavtsev Y.V.², Kokorin V.V.¹, Kozlova L.E.¹, Iermolenko V.N.², Konoplyuk S.M.¹
¹*Institute of Magnetism NAS of Ukraine, Kiev, Ukraine*
²*Institute of Metal Physics, Kiev, Ukraine*
- BP-6P/8 On the relation between cell-tetragonality and maximum possible deformation of modulated five-layer Ni-Mn-Ga crystal**
 Olikhovska L.O., Glavatska N.I.
G.V. Kurdyumov Institute for Metal Physics of National Academy of Sciences of Ukraine, Kyiv, Ukraine

- BP-6P/9 Induced martensite transformations in ferromagnetic Co-Ni-Al shape memory alloys**
Titenko A.N.¹, Demchenko L.D.²
¹Institute of Magnetism, National Academy of Sciences of Ukraine and Ministry of Education of Ukraine, Kiev, Ukraine
²National Technical University of Ukraine Peremogy prospect, Kiev, Ukraine
- BP-6P/10 Shape memory effect in microsized samples of ferromagnetic heusler alloys**
Akatyeva K.¹, Afonina V.¹, Irzhak A.², Khovailo V.², Koledov V.¹, Shavrov V.¹, von Gratoski S.¹, Albertini F.³, Fabbrici S.³
¹Kotelnikov Institute of Radioengineering and Electronics of RAS, Moscow, Russia
²Moscow Institute of Steel and Alloys, Moscow, Russia
³Istituto dei Materiali per l'Electronica ed il Magnetismo IMEM-CNR, Parma, Italy
- BP-6P/11 Coherency of counterpropagating ultrasound beams under degenerated parametric magnetoacoustic interaction in polycrystalline ferrite**
Krutyansky L.^{1,2}, Preobrazhensky V.^{1,2}, Pernod P.²
Joint International Laboratory LEMAC:
¹Wave Research Center of A.M. Prokhorov General Physics Institute RAS, Moscow, Russia
²Institute of Electronics, Microelectronics and Nanotechnology, PRES Lille North of France, ECLille, Villeneuve d'Ascq Cedex, France
- BP-6P/12 Experimental study of acoustic properties of a γ -Fe₂O₃ ferrofluid in external magnetic field**
Krutyansky L.^{1,2,3}, Preobrazhensky V.^{1,2,3}, Pernod P.^{1,3}, Dupuis V.⁴, Neveu S.⁴
¹Joint International Laboratory LEMAC:
²Wave Research Center of A.M. Prokhorov General Physics Institute RAS, Moscow, Russia
³Institute of Electronics, Microelectronics and Nanotechnology, PRES Lille North of France, ECLille, Villeneuve d'Ascq Cedex, France
⁴UPMC Univ. Paris, Paris, France
- BP-6P/13 Ultrasonic Tomography of Liquids Flows by Means of Phase-Conjugated Acoustical Waves**
Pyl'nov Yu.V.^{1,2}, Pernod Ph.¹, Preobrazhensky V.L.^{1,3}
Joint International Laboratory LEMAC:
¹Institute of Electronics, Microelectronics and Nanotechnology, PRES Lille North of France, ECLille, Villeneuve d'Ascq Cedex, France
²Moscow Institute of Radio Engineering, Electronics and Automation, Moscow, Russia
³Wave Research Center of A.M. Prokhorov General Physics Institute RAS, Moscow, Russia

- BP-6P/14 Magnetoacoustic Wave Phase Conjugation of Ultrasound generated by Magnetic Nanoparticles in Liquid**
 Pyl'nov Yu.V.^{1,2}, Preobrazhensky V.L.^{1,3}, Pernod Ph.¹, Klimov A.A.^{1,2}, Rudenko V.V.^{1,4}, Dupuis V.⁵, Neveu S.⁵
Joint International Laboratory LEMAC:
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²*Moscow Institute of Radio Engineering, Electronics, and Automation, Moscow, Russia*
³*Wave Research Center, A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia*
⁴*V.I. Vernadsky Taurida National University, Simferopol, Ukraine*
⁵*UPMC Univ. Paris Paris, France*
- BP-6P/15 The Behavior of Evanescent Acoustic Waves by a Slab of 2D Magnetic Acoustic Metamaterials**
 Sukhorukova O.S.¹, Tarasenko S.V.¹, Shavrov V.G.², Yurchenko V.M.¹
¹*Donetsk A.A. Galkin Institute of Physics & Engineering of NASU, Donetsk, Ukraine*
²*V.A. Kotelnikov Institute of Radioengineering & Electronics of RAS, Moscow, Russia*
- BP-6P/16 Features of acoustic resonance in iron borate**
 Skibinsky K.M.¹, Strugatsky M.B.¹, Yagupov S.V.¹, Berzhansky V.N.¹, Yevstafyev O.I.^{1,2}, Preobrazhensky V.L.²
¹*Taurida National University, Simferopol, Ukraine*
²*Institut of Electronics, Microelectronics and Nanotechnology, Ecole Centrale de Lille, Villeneuve d'Ascq Cedex, France*
- BP-6P/17 Magneto-elastic coupling for longitudinal sound in iron borate**
 Skibinsky K.M., Strugatsky M.B.
Taurida National University, Simferopol, Ukraine
- BP-6P/18 Surface magnetism of real weak-ferromagnetic crystals**
 Bolotin D.D.¹, Maksimova E.M.¹, Nauhatsky I.A.¹, Strugatsky M.B.¹, Yagupov S.V.¹, Zubov V.E.²
¹*Taurida National University, Simferopol, Ukraine*
²*Moscow State University, Lenin's Hills, MSU, Moscow, Russia*
- BP-6P/19 Dependence of surface anisotropy in weak ferromagnets on the face crystallographic orientation**
 Bolotin D.D.¹, Maksimova E.M.¹, Nauhatsky I.A.¹, Strugatsky M.B.¹, Zubov V.E.²
¹*Taurida National University, Simferopol, Ukraine*
²*Moscow State University, Lenin's Hills, MSU, Moscow, Russia*
- BP-6P/20 Local porosity measurement of particles reinforced metal-matrix composites with the laser ultrasonic method**
 Podymova N.B.¹, Karabutov A.A.¹, Kobeleva L.I.², Chernyshova T.A.²
¹*Faculty of Physics, M.V. Lomonosov Moscow State University, Moscow, Russia*
²*A.A. Baikov Institute of Metallurgy and Materials Science, Moscow, Russia*

BP-6P/21 Automatic setup for discovering the effect of the temperature on dynamic magnetic and magnetoelastic properties of amorphous ferromagnetic alloys
 Semenov A.L., Morozov I.L., Morozova N.V., Mokhovikov A.Yu., Gavriiliuk A.A.
Irkutsk State University, Irkutsk, Russian Federation

BP-6P/22 Elastic and inelastic properties of SiO₂, SiO₂ + TiO₂ + ZrO₂ films
 Onanko A.P., Kulish M.P., Lyashenko O.V., Prodayvoda G.T., Vyzhva S.A., Onanko Y.A.
Kyiv national university, Kyiv, Ukraine

9.00-14.00

Poster Session BQ.

Section 2. Hard and Soft Magnetic Materials

Chairmen: Ekomasov E.G., Nadutov V.

BQ-2P/1 Nonlinear dynamics of domain walls in three-layered magnetic films with ultrathin layers
 Dubovik M.N., Filippov B.N.
Institute of Metal Physics, Ekaterinburg, Russia

BQ-2P/2 The dynamics of new phase nuclei close to the point of the first order phase transition in magnets in the presence one-dimensional defects
 Nazarov V.N.¹, Shafeev R.R.², Shamsutdinov M.A.², Lomakina I.Yu.²
¹*Institute of Physics of Molecules and Crystals, Ufa, Russia*
²*Bashkir State University, Ufa, Russia*

BQ-2P/3 Dynamics of the domain walls of the magnetic with 1D and 2D case nonhomogenities modulation of the parameters of the magnetic anisotropy
 Ekomasov E.G., Murtazin R.R., Gumerov A.M., Ekomasov A.E.
Bashkir State University, Ufa, Russia

BQ-2P/4 Orientational phase diagram of the plate (210) in view of periodic domain structure
 Vakhitov R.M.¹, Yumaguzin A.R.¹, Bachurina O.V.²
¹*Bashkir State University, Ufa, Russia*
²*Bashkir State Pedagogical University, Ufa, Russia*

BQ-2P/5 Properties of 0-degree domain walls in a cubic ferromagnet in a transverse magnetic field
 Vakhitov R.M., Zainullina A.M., Ryakhova O.G.

BQ-2P/6 Spin-reorientation phase transitions in the film with different axial anisotropy
 Mamalui Ju.A., Siryuk Ju.A., Bezus A.V.
Donetsk National University, Donetsk, Ukraine

BQ-2P/7 The peculiarities of bubble structures in the ferrite-garnet films
 Mamalui Ju.A., Siryuk Ju.A., Smirnov V.V.
Donetsk National University, Donetsk, Ukraine

- BQ-2P/8 Stable spiral domains in the ferrite-garnet films**
Mamalui Ju.A., Siryuk Ju.A., Smirnov V.V.
Donetsk National University, Donetsk, Ukraine
- BQ-2P/9 Zigzag domain walls in ferrite garnet (100) – films**
Shulyma S.I., Tychko O.V.
Taras Shevchenko Kiev National University, Department of Radiophysics, Kiev, Ukraine
- BQ-2P/10 Magnetic fluctuations in multi-layer flux concentrators**
Lubyaniy L.Z., Samofalov V.N., Ravlik A.G., Overko N.E., Chichibaba I.A.
National Technical University “Kharkov Polytechnic Institute”, Kharkov, Ukraine
- BQ-2P/11 Multidomain states and domain walls in magnetic nanostructures**
Dragunov I.E., Tarabtseva S.V.
Donetsk Institute for Physics and Technology, National Academy of Sciences of Ukraine, Donetsk, Ukraine
- BQ-2P/12 Nanocrystalline soft magnetic alloy $(\text{Fe}_{0.7}\text{Co}_{0.3})_{88}\text{Hf}_4\text{Mo}_2\text{Zr}_1\text{B}_4\text{Cu}_1$ with elevated thermal stability of the magnetic properties**
Dmitrieva N.V., Lukshina V.A., Volkova E.G., Potapov A.P., Filippov B.N.
Institute of Metal Physics UD RAS, Ekaterinburg, Russia
- BQ-2P/13 Magnetic properties of modified amorphous and nanocrystalline Fe and Co based alloys**
Filippov B.N., Potapov A.P., Shulika V.V.
Institute of Metal Physics, Ural Division, Russian Academy of Science, Yekaterinburg, Russia
- BQ-2P/14 Molecular dynamics of the ferrofluid aggregates formation and dynamic remagnetization**
Kovalenko V.F.¹, Petrychuk M.V.¹, Tanygin B.M.¹, Tanygina O.M.²
¹*Kyiv Taras Shevchenko National University, Radiophysics Faculty, Kyiv, Ukraine, MSP*
²*Kyiv Taras Shevchenko National University, Physics Faculty, Kyiv, Ukraine, MSP*
- BQ-2P/15 Mössbauer study of thermochemically synthesized powder of Fe conglomerates**
Nadutov V.M., Svystunov Ye.O., Perekos A.O., Voynash V.Z., Zalutsky V.P.
G.V. Kurdumov Institute for Metal Physics, the National Academy of Sciences of Ukraine, Kyiv, Ukraine
- BQ-2P/16 Effect of Cu on structure of MgO-Fe nanocomposite**
Nadutov V.M., Voynash V.Z., Perekos A.O., Zalutsky V.P., Svistunov E.A., Yefimova T.V.
G.V. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine

- BQ-2P/17 Structure and properties of Invar Fe-Ni alloy after hydroextrusion**
Nadutov V.M.¹, Belashenko V.O.², Vashchuk D.L.¹, Spuskanyuk V.Z.²,
Davidenko O.A.², Zalutskiy V.P.¹, Efimova T.V.¹
¹*G.V. Kurdyumov Institute for Metal Physics the National Academy of
Sciences of Ukraine, Kiev, Ukraine*
²*Donetsk O. O. Galkin Institute of Physics and Engineering the National
Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BQ-2P/18 Sources of the magnetic field of hybrid structures made up of particles
of hard and soft magnetic materials**
Dergachev P.A., Kurbatov P.A.
*Institute of Electrical Engineering Moscow Power Engineering Institute
(Technical University), Moscow, Russia*
- BQ-2P/19 Peculiarities of the phase transition of order-order frustrated
ferrimagnets**
Efimova N., Tkachenko M.
V. Karazin Kharkiv National University, Kharkiv, Ukraine
- BQ-2P/20 Design of nanocrystalline cores for power electronics transformers**
Nosenko V.¹, Balan V.¹, Nosenko A.², Zakharenko M.², Kochkubey A.³
¹*G.V. Kurdyumov Institute for Metal Physics of NAS of Ukraine, Kyiv,
Ukraine*
²*Department of Physics, Taras Shevchenko National University, Kyiv,
Ukraine*
³*MELTA Ltd., Kyiv, Ukraine*
- BQ-2P/21 Evolution of transport properties of Fe- based metallic glasses upon heat
treatment**
Kalnysh T.V., Nosenko A.V., Semen'ko M.P., Zakharenko M.I.
Department of Physics, Taras Shevchenko National university, Kyiv, Ukraine
- BQ-2P/22 The influence of plastic processing to the thermal stability of the
amorphous alloys**
Lysov V.I., Tsaregradskaya T.L., Turkov O.V., Saenko G.V.
Kyiv Taras Shevchenko national university, Kyiv, Ukraine
- BQ-2P/23 Field-induced magnetic anisotropy in Fe-based nanocrystalline alloy
with addition of chromium**
Lukshina V.A., Potapov A.P., Zacharova A.A.
Institute of Metal Physics UD RAS, Ekaterinburg, Russia
- BQ-2P/24 Dynamics of the domain walls in magnetic with an optional one-
dimensional modulation of the magnetic parameters**
Ekomasov E.G., Murtazin R.R., Nazarov V.N., Almuchametova A.R.
Bashkir State University, Ufa, Russia
- BQ-2P/25 Stress dependence of the coercivity of amorphous microwire with
induced helical anisotropy**
Popov V.V., Pozdeyeva I.V.
V.I. Vernadsky Taurida National University, Crimea, Simferopol, Ukraine

- BQ-2P/26 Magnetization reversal mechanism in amorphous microwire with induced helical magnetic anisotropy**
 Popov V.V., Berzhansky V.N., Boyko V.A., Torkunov A.V.
V.I. Vernadsky Taurida National University, Crimea, Simferopol, Ukraine
- BQ-2P/27 Rare-Earth Magnets with the increased temperature and temporary stability**
 Lukin A.A.¹, Il'yashenko E.I.², Skjeltorp A.T.³, Helgesen G.³
¹*Ltd "Research and production Company "Magnets and Magnetic Systems", Russia, Moscow*
²*Moscow State University, Department of Physics, Moscow, Russia*
³*Institute for Energy Technology, Kjeller and University of Oslo, Norway*
- BQ-2P/28 Measuring equipment for magnetic property investigation of soft and hard magnetic materials**
 Kuznetzova E.A.
Moscow Power Engineering Institute (Technical University), Moscow, Russia
- BQ-2P/29 Automated System for thermo-, galvano-, magnetic researches**
 Lagunov I.M., Vlasova T.A.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- BQ-2P/30 Physicochemical and electrochemical studies of lithium manganese spinel synthesized by citric acid route**
 Potapenko A.V., Chernukhin S.I., Romanova I.V., Kirillov S.A.
Joint Department of Electrochemical Energy Systems of National Academy of Sciences of Ukraine, Kyiv, Ukraine
Institute for Sorption and Problems of Endoecology of National Academy of Sciences of Ukraine, Kyiv, Ukraine
- BQ-2P/31 Thermoelectric properties of the ferrites with local angular spin structure**
 Yevstafyev I.I.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine

15.00-19.00**Oral Session BC.****Section 7. Magnonics. Microwave Materials and Metamaterials II**

Chairmen: Slavin A.N., Cros V.

- BC-7L/1 Qualitative method for spin transfer dynamics (Invited)**
 Bazaliy Ya.B.^{1,2} and Sodemann Inti^{2,3}
¹*Institute of Magnetism, Kyiv, Ukraine*
²*University of South Carolina, Columbia SC, USA*
³*University of Twexas at Austin, Austin, TX, USA*
- BC-7L/2 Spin torque oscillators under current modulation (Invited)**
 Pogoryelov Ye.A.^{1,2}, Muduli P.K.², Mancoff F.³, Åkerman J.^{1,2}
¹*Material Physics, Royal Institute of Technology, Stockholm-Kista, Sweden*
²*Physics Department, University of Gothenburg, Gothenburg, Sweden*
³*Everspin Technologies, Inc., Chandler, Arizona, USA*

- BC-7L/3 Magnonic Crystals: Mastering Magnons at the Nanoscale (Invited)**
 Krawczyk M.¹, Kłos J.W.¹, Mamica S.¹, Sokolovskyy M.L.¹, Romero-Vivas J.¹, Kruglyak V.V.²
¹*Faculty of Physics, Adam Mickiewicz University, Poznan, Poland*
²*University of Exeter, Stocker Road, Exeter EX4 4QL, United Kingdom*
- BC-7O/1 Collective excitations of a two-dimensional array of magnetic nano-dots**
 Verba R.V.¹, Melkov G.A.¹, Tiberkevich V.S.², Slavin A.N.²
¹*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
²*Oakland University, Rochester, MI, USA*
- BC-7O/2 Breaking of the axial symmetry of the circular dots: spin-wave modes upon small deviation of external magnetic field from the normal**
 Kakazei G.N.^{1,2}, Bunyaev S.A.¹, Golub V.O.², Tartakovskaya E.V.², Sobolev N.A.³, Serga A.A.⁴, Chumak A.V.⁴, and Hillebrands B.⁴
¹*IFIMUP and IN-Institute of Nanoscience and Nanotechnology, Departamento de Física, Universidade do Porto, Porto, Portugal*
²*Institute of Magnetism National Academy of Sciences of Ukraine, Kiev, Ukraine*
³*Departamento de Física and I3N, Universidade de Aveiro, Aveiro, Portugal*
⁴*Fachbereich Physik, Nano+Bio Center, and Forschungszentrum OPTIMAS, Technische Universität Kaiserslautern, Kaiserslautern, Germany*
- BC-7O/3 Mechanism of the vortex polarity switching in nanomagnets**
 Sheka D.D.¹, Kravchuk V.P.², Gaididei Yu.B.²
¹*Taras Shevchenko National University of Kyiv, Kyiv*
²*Bogolyubov Institute for Theoretical Physics, Kyiv*
- BC-7O/4 Controlling the dispersion of collective spin waves in stacks of magnetic nano-elements**
 Dvornik M.¹, Kruglyak V.V.¹
School of Physics, University of Exeter, Stocker road, Exeter, United Kingdom
- BC-7O/5 The effect of the symmetry of the ground state on the dynamics of the localized modes in 2D arrays of magnetic nano-elements**
 Dvornik M.¹, Bondarenko P.², Ivanov B.A.² and Kruglyak V.V.¹
¹*School of Physics, University of Exeter, Exeter, United Kingdom*
²*Institute of Magnetism, National Academy of Science of Ukraine, Kiev, Ukraine*
- BC-7O/6 Dynamics of coupled magnetic vortices in a pair of circular dots**
 Sukhostavets O.V.¹, González J.M.¹, Guslienko K.Y.^{1,2}
¹*Dpto. Física de Materiales, Universidad del País Vasco, San Sebastián, Spain*
²*IKERBASQUE, The Basque Foundation for Science, Bilbao, Spain*
- BC-7O/7 Spin waves in magnetoferritin-based magnonic crystals**
 Mamica S.¹, Krawczyk M.¹, Sokolovskyy M.¹, Kłos J.W.¹, Schwarzacher W.², Eloi J.-C.², Okuda M.²
¹*Faculty of Physics, Adam Mickiewicz University, Poznan, Poland*
²*H.H. Wills Physics Laboratory, University of Bristol, Bristol, United Kingdom*

BC-7O/8 Wave propagation in multilayered hyperbolic metamaterials
 Zhukovsky S.V., Kidwai O., Sipe J.E.
Department of Physics, University of Toronto, Toronto, Ontario, Canada

15.00-19.00 Poster Session BR.

Section 1. Fundamental Physics of Functional Materials I

Chairmen: Krivoruchko V., Cho Sang-Hee

- BR-1P/1 Laser cooled rare-earth atoms and their applications in fundamental physics**
 Kolachevsky N., Sukachev D., Sokolov A., Akimov A., Sorokin V.
P.N. Lebedev Physics Institute, Moscow, Russia
- BR-1P/2 Induced by magnetic field quantum phase transition in van Vleck antiferromagnets of DTN type**
 Kalita V.M., Loktev V.M.
*Institute of Physics, NAS of Ukraine
 Bogolyubov Institute for Theoretical Physics, NAS of Ukraine
 National Technical University of Ukraine "KPI"*
- BR-1P/3 Controllable pinning potential for kink in 1D magnetic dots array**
 Bondarenko P.¹, Ivanov B.A.^{1,2}
¹*Institute of Magnetism NASU and MESU, Kyiv, Ukraine*
²*T. Shevchenko National University of Kyiv, Kyiv, Ukraine*
- BR-1P/4 Magnetization process of the triangular arrays of magnetic dots**
 Khymyn R.S., Kireev V.E., Ivanov B.A.
Institute of Magnetism, National Academy of Sciences of Ukraine, Kiev, Ukraine
- BR-1P/5 The simulation of the nonlinear dynamics of magnetic vortices in weak ferromagnetics**
 Ekomasov E.G.¹, Bogomazova O.B.¹, Gumerov A.M.¹, Murtazin R.R.¹, Shapaeva T.B.²
¹*Bashkir State University, Ufa, Russia*
²*Faculty of Physics M.V.Lomonosov Moscow State University, Moscow, Russia*
- BR-1P/6 Theoretical modeling of the magnetic properties and magnetocaloric effect in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ manganite by Monte Carlo study**
 Pavlukhina O.O., Buchelnikov V.D., Sokolovskiy V.V., Zagrebin M.A.
Chelyabinsk State University, Chelyabinsk, Russia
- BR-1P/7 The pseudogap phenomena in strong correlated manganites (tunnel investigation)**
 Boichenko V.A., Tarenkov V.Yu., Dyachenko A.I., Krivoruchko V.N.
Donetsk Institute for Physics and Engineering named after O.O. Galkin NAS of Ukraine, Donetsk, Ukraine

- BR-1P/8 Reversibility of ferroelastic domain structure configurations in LSGMn crystals**
 Tataryn T.R.¹, Savvetskii D.I.¹, Paulmann C.^{2,3}, Bismayer U.³, Berkowski M.⁴
¹*Lviv Polytechnic National University, Lviv, Ukraine*
²*HASYLAB, DESY, Hamburg, Germany*
³*Min.-Petrogr. Institut, Universität Hamburg, Hamburg, Germany*
⁴*Institute of Physics Polish Academy of Sciences, Warsaw, Poland*
- BR-1P/9 Formation and evolution of a phase domain structure in cylindrical magnets under conditions of a first-order magnetic phase transition**
 Dzhezherya Yu.I.¹, Klymuk O.S.²
¹*Institute of Magnetism, Kyiv, Ukraine*
²*National Technical University "KPI", Kyiv, Ukraine*
- BR-1P/10 Temperature-magnetic effects in the systems with a combined resistance-magnetic first-order phase transition**
 Dzhezherya Yu.I.¹, Gryshchuk A.M.²
National Technical University "KPI", Kyiv, Ukraine
- BR-1P/11 Phase and structure behaviour of solid solutions in the LaAlO₃-TbAlO₃ system**
 Basyuk T.¹, Vasylechko L.¹, Berezovets V.², Trots D.M.³, Hoffmann S.⁴
¹*Lviv Polytechnic National University, Lviv, Ukraine*
²*Karpenko Physico-Mechanical Institute, Lviv, Ukraine*
³*Universität Bayreuth, Bayreuth, Germany*
⁴*Max-Planck-Institut für Chemische Physik fester Stoffe, Dresden, German*
- BR-1P/12 Magnetocaloric properties of La_{0.6}Pr_{0.1}Ca_{0.3}MnO₃ single crystal**
 Zainullina R.I.¹, Bebenin N.G.¹, Ustinov V.V.¹, Mukovskii Ya.M.²
¹*Institute of Metal Physics, UD RAS, Ekaterinburg, Russia*
²*Moscow State Steel&Alloys Institute, Moscow, Russia*
- BR-1P/13 Magnetic and electric properties of Pr_{1-x}Ca_xMnO₃ solid solutions**
 Makovetskii G.I.¹, Radyush Yu.V.¹, Tarasenko T.N.², Yanushkevich K.I.¹
¹*SSPA "Scientific-Practical Materials Research Center of NASB", Minsk, Belarus*
²*Donetsk Institute for Physics and Engineering named after O.O. Galkin of NASU, Donetsk, Ukraine*
- BR-1P/14 Electron spin resonance, conductivity and susceptibility in Pr_{0.7}Ca_{0.15}Ba_{0.15}MnO₃ manganite**
 Ulyanov A.N.¹, Quang H.D.², Pismenova N.E.¹, Yu S.C.³, Levchenko G.G.¹
¹*Donetsk Physico-Technical Institute of National Academy of Sciences, Donetsk, Ukraine*
²*Solid State Physics Group, Department of Physics and Astronomy and SUPA Graduate School, University of Glasgow, Glasgow, U.K.*
³*Department of Physics, Chungbuk National University, Cheongju, Republic of Korea*

- BR-1P/15** **Magnetic cluster state in the anion-deficient $\text{La}_{0.70}\text{Sr}_{0.30}\text{MnO}_{2.85}$ manganite**
 Trukhanov S.V.
Scientific-Practical Materials Research Centre NAS of Belarus, Minsk, Belarus
- BR-1P/16** **Structural and magnetic inhomogeneity, phase transitions, ^{55}Mn NMR and magneto-resistive properties of $\text{La}_{0.6-x}\text{Nd}_x\text{Sr}_{0.3}\text{Mn}_{1.1}\text{O}_{3-\delta}$ ceramics**
 Pashchenko A.V.¹, Pashchenko V.P.^{1,2}, Prokopenko V.K.¹,
 Revenko Yu.F.¹, Kisel N.G.^{1,2}, Komarov V.P.², Silcheva A.G.³,
 Telegin A.V.¹, Burhovetskiy V.V.¹, Levchenko G.G.¹
¹*Donetsk Institute for Physics and Engineering named after A.A. Galkin, NAS of Ukraine, Donetsk, Ukraine*
²*Donetsk scientifically-technological centre "Reactivelectron" NAS of Ukraine, Donetsk, Ukraine*
³*Luhansk Taras Shevchenko National University, Luhansk, Ukraine*
- BR-1P/17** **Phase transitions, NMR ^{55}Mn , Mossbauer ^{57}Fe and magnetoresistive properties of $\text{La}_{0.6}\text{Sr}_{0.3}\text{Mn}_{1.1-x}\text{Fe}_x\text{O}_{3-\delta}$**
 Pashchenko A.V.¹, Pashchenko V.P.¹, Revenko Yu.F.¹, Prokopenko V.K.¹,
 Shemyakov A.A.¹, Pismenova N.E.¹, Levchenko G.G.¹, Burhovetskiy V.V.¹,
 Kitaev V.V.², Gufan Yu.M.², Silcheva A.G.³
¹*Donetsk Institute for Physics and Engineering named after O.O.Galkin of NASU, Ukraine*
²*Southern Federal University, Research Institute of Physics, Rostov-on-Don, Russia*
³*Luhansk Taras Shevchenko National University, Ukraine*
- BR-1P/18** **Structure and features of multi-functional magneto-resistive $\text{La}_{0.6}\text{Sr}_{0.3-x}\text{Bi}_x\text{Mn}_{1.1}\text{O}_{3-\delta}$ perovskites**
 Pashchenko V.P.¹, Pashchenko A.V.¹, Revenko Yu.F.¹,
 Prokopenko V.K.¹, Mazur A.S.¹, Turchenko V.A.¹, Burhovetskiy V.V.¹,
 Sycheva V.Ya.¹, Silcheva A.G.², Gufan Yu.M.³
¹*Donetsk Institute for Physics and Engineering named after O.O.Galkin of NASU, Ukraine*
²*Luhansk Taras Shevchenko National University, Ukraine*
³*Southern Federal University, Research Institute of Physics, Rostov-on-Don, Russia*
- BR-1P/19** **Magnetotransport of epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_{3-\delta}$ films in the vicinity of oxygen stoichiometric state (deficit end excess of oxygen)**
 Nikolaenko Yu.M.¹, Medvedev Yu.V.¹, Efros N.B.¹, Zhikharev I.V.²,
 Kara-Murza S.V.², Tikhiy A.A.²
¹*Donetsk Institute for Physics & Technology, National Academy of Sciences, Donetsk, Ukraine*
²*Lugansk National University named after T.Shevchenko, Lugansk, Ukraine*
- BR-1P/20** **Superconducting proximity effect in $\text{La}_{0.65}\text{Sr}_{0.35}\text{MnO}_3$ – Bi2223 composite**
 Kononenko V.V., Tarenkov V.Yu., Krivoruchko V.N., D'yachenko A.I.
Donetsk Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine

- BR-1P/21 Structural, magnetic and resistance properties of nanopowder lanthanum- strontium manganites, prepared by sol-gel method**
Turchenko V.A., Pashchenko V.P., Pashchenko A.V., Revenko Ju.F., Sycheva V.Ja., Glazunova V.O., Kravchenko Z.F.
Donetsk Institute for Physics and Engineering named after A.A.Galkin of the National Academy of Sciences of Ukraine, Donetsk, Ukraine
- BR-1P/22 Phase diagram of spin-1 easy-plane antiferromagnetic**
Fridman Yu.A., Kosmachev O.A., Klevets Ph.N.
V.I. Vernadskiy Taurida national university, Simferopol, Ukraine
- BR-1P/23 Influence of an inclined anisotropy on the phase states of a strongly anisotropic easy-plane ferromagnetic film**
Fridman Yu.A., Klevets Ph.N., Gorelikov G.A.
V.I. Vernadskiy Taurida national university, Simferopol, Ukraine
- BR-1P/24 Spin-2 nematic**
Fridman Yu.A.¹, Kosmachev O.A.¹, Ivanov A.B.²
¹*V.I. Vernadskiy Taurida National university, Simferopol, Ukraine*
²*Institute of Magnetism, National Academy of Sciences and Ministry of Education, Kiev, Ukraine*
- BR-1P/25 “Ab-initio” modeling of magneto-structural properties of Cu_xNi_(1-x) alloy**
Timoshevskii A.N.¹, Yanchitsky B.Z.¹, Korenivski V.²
¹*Institute of magnetism of National academy of sciences and Ministry of education and science of Ukraine, Kiev, Ukraine*
²*Royal Institute of Technology, Stockholm, Sweden*
- BR-1P/26 Competition between the crystal field and superexchange interaction for the t_{2g} orbital states in the transition metal oxides**
Krivenko S.A.
Institute of Physics, Kazan Federal University, Kazan, Russia
- BR-1P/27 Non-conventional view on spin-crossover high spin - low spin in coordination compounds of iron group**
Christov A.V., Shelest V.V., Prokhorov A.Yu., Pashkevich Yu.G., Levchenko G.G.
Donetsk Institute for Physics and Engineering of NASU, Donetsk, Ukraine
- BR-1P/28 Magnon damping in spin nematic near antiferromagnet critical point**
Butrim V.I.¹, Ivanov B.A.²
¹*V.I. Vernadsky Tavrichesky National University, Simferopol, Ukraine*
²*Institute of Magnetism of the National Academy of Sciences of Ukraine, Kiev, Ukraine*
- BR-1P/29 First-principles study of short range order in Fe-N and Fe-C austenites**
Timoshevskii A.N., Yablonovskii S.O.
Institute of magnetism of National academy of sciences and Ministry of education and science of Ukraine, Kiev, Ukraine

- BR-1P/30 Incommensurate magnetic structure and phase transitions in quasi-one-dimensional clinopyroxene $\text{NaFeGe}_2\text{O}_6$**
Petrakovskii G.¹, Drokina T.¹, Schefer J.², Keller L.², Kartashev A.¹
¹*L.V. Kirensky Institute of Physics, Siberian Branch of Russian Academy of Science, Krasnoyarsk, Russia*
²*Laboratory for Neutron Scattering, Paul Scherrer Institut, Villigen PSI, Switzerland*
- BR-1P/31 Optical birefringence, heat capacity and magnetic torque of the antiferromagnetic magnetoelectric crystal of LiCoPO_4**
Kharchenko Yu.¹, Miloslavskaya O.V.¹, Kharchenko M.F.¹,
Wieckowski J.², Gutowska M.U.², Szewczyk A.², Wisniewski A.²,
Puzniak R.² and Schmid H.³
¹*B. Verkin Institute for Low Temperature Physics and Engineering, National Academy of Sciences of Ukraine, Kharkiv, Ukraine*
²*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*
³*Department of Inorganic, Analytical and Applied Chemistry, University of Geneva, Switzerland*
- BR-1P/32 First-principles calculations electron structure and elastic property Ti-Nb alloys**
Timoshevskii A.N.¹, Yablonovskii S.O.¹, Yushchenko A.A.¹, Ivasishin O.M.²
¹*Institute of magnetism of National academy of sciences and Ministry of education and science of Ukraine, Kiev, Ukraine*
²*Institute for Metal Physics National Academy of Sciences, Kiev, Ukraine*
- BR-1P/33 Ab-initio simulation of the atomic structure and distribution of vacancies in the $\text{La}_x\text{Ce}_{1P/2-x}\text{Li}_x\text{TiO}_3$ ionic conductor**
Kalkuta S.A., Tymoshevskii A.N.
Institute of magnetism NAS of Ukraine and MESYS of Ukraine, Kiev, Ukraine

Wednesday, October 5

9.00-12.00**Oral Session CA.****Section 6. Magnetoelastic and Adaptive Materials****Chairmen:** Pernod P., Preobrazhensky V.

- CA-6L/1 Magnetic field induced strain and phase transitions in Ni-Mn-Ga alloys (Invited)**
Kokorin V.V.
Institute of Magnetism, Kiev, Ukraine
- CA-6L/2 Magnetic anisotropy of ferromagnetic shape memory alloys (Invited)**
Chernenko V.A.^{1,2,3}, Golub V.³, Lvov V.A.^{3,4}, Salyuk O.Y.³, Barandiarán J.M.¹
¹*Universidad del País Vasco, Dpto. Electricidad y Electronica, Bilbao, Spain*
²*Ikerbasque, Basque Foundation for Science, Bilbao, Spain*
³*Institute of Magnetism, Kyiv, Ukraine*
⁴*Department of Radiophysics, Taras Shevchenko University, Kyiv, Ukraine*
- CA-6L/3 Parametric three wave coupling in strongly nonlinear anharmonic media (Invited)**
Yevstafyev O.^{1,3}, Preobrazhensky V.L.^{1,2}, Pernod P.¹, Berzhansky V.N.³
Joint European Laboratory LEMAC:
¹*IEMN CNRS, Ecole Centrale de Lille, Villeneuve d'Ascq, France*
²*Wave Research Center, Moscow, Russia*
³*Taurida National University, Simferopol, Ukraine*
- CA-6L/4 New technique to study structural transformation in the metals (Invited)**
Lachinov A.N.^{1,2}, Ponomarev A.F.³, Nabiullin I.R.¹
¹*Institute of Physics of Molecules and Crystal URC RAS, Ufa, Russia*
²*Bashkirian State Pedagogical University, Ufa, Russia*
³*Birsk State Social-Pedagogical Academy, Birsk, Russia*
- CA-6O/1 A new approach for identification of phase and magnetic transitions in martensite of multifunctional Heusler alloys on the example of Ni-Mn-Ga**
Glavatska Nadiya¹, Glavatskyi Ilya^{2,1}, Hoffman J.-U.², Söderberg Outi³
¹*Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*
²*Berlin Neutron Scattering Centre, Berlin, Germany*
³*Helsinki University of Technology, Espoo, Finland*
- CA-6O/2 How giant is the “giant” magnetocaloric effect in ferromagnetic shape memory alloys?**
Khovaylo V.V.¹, Skokov K.P.²
¹*National University of Science and Technology “MISiS”, Moscow, Russia*
²*Faculty of Physics, Tver State University, Tver, Russia*
- CA-6O/3 The definition of material constants of magneto-optical crystals using Faraday’s effect in conditions of magneto-mechanic resonance**
Linchevskiy I.V.
National technical university «Kyiv. Polytekh. Inst.», Kyiv, Ukraine

- CA-60/4** **Laws of elasticity in the physical processes influence of parameters (TPH) on the properties and structural phase transitions**
Polyakov P.I.
Inst. For Phys. of Mining Processes, Donetsk, Ukraine

12.00-13.15 Oral Session CB.

Section 3. Spintronics. Transport phenomena. Multilayers

Chairmen: Ryabchenko S., Petrakovsky G.

- CB-3L/1** **Magneto-thermo-piezoelectric effects in quantum dots** (*Invited*)
(EB-5L/1) Melnik R.V.N.^{1,2} and Prabhakar S.¹
¹*M2NeT Laboratory, Wilfrid Laurier University, Waterloo, Canada*
²*MIT Department, University of Javaskyla, Finland*
- CB-30/1** **Magnetic, dynamic and transport properties of epitaxial Fe/MgO multilayers**
García-García A.^{1,2}, Vovk A.^{3,4}, Kakazei G.N.^{4,5}, Pogorelov Yu.G.⁵, Golub V.⁴, Salyuk O.⁴, Pardo J.A.^{6,7}, Štrichovanec P.⁶, Magén C.⁶, De Teresa J.M.^{1,2}, Morellón L.^{1,2,6}, Algarabel P.A.^{1,2}, and Ibarra M.R.^{1,2,6}
¹*ICMA, Universidad de Zaragoza-CSIC, Zaragoza, Spain*
²*DFMC, Universidad de Zaragoza-CSIC, Zaragoza, Spain*
³*CFMC, Universidade de Lisboa, Lisboa, Portugal*
⁴*Institute of Magnetism, National Academy of Sciences of Ukraine, Kyiv, Ukraine*
⁵*IFIMUP and IN-INNanotechnology, Universidade do Porto, Porto, Portugal*
⁶*INA, Universidad de Zaragoza, Zaragoza, Spain*
⁷*DCTMFluidos, Universidad de Zaragoza, Zaragoza, Spain*
- CB-30/2** **Spin-wave and spintronic devices on the base of magnetic nanostructures**
Lutsev L.V.¹, Stognij A.I.², Novitskii N.N.², Shulenkov A.S.³
¹*A.F. Ioffe Physical-Technical Institute, Russian Academy of Sciences, St. Petersburg, Russia*
²*Institute of Solid State and Semiconductor Physics, NAS of Belarus, Minsk, Belarus*
³*Minsk Research Institute of Radiomaterials, Minsk, Belarus*
- CB-30/3** **Positive magnetoresistance in granular magnetic films with perpendicular anisotropy**
Kalita V.M.¹, Timopheev A.A.¹, Lozenko A.F.¹, Ryabchenko S.M.¹, Los A.V.², Stognei O.V.³, Sitnikov A.V.³
¹*Institute of Physics of the NAS of Ukraine, Kyiv, Ukraine*
²*ISS Ltd. and Freescale Semiconductor Ukraine LLC., Kyiv, Ukraine*
³*Voronezh State Technical University, Voronezh, Russian federation*

- CB-30/4 Spin transfer in EuO:Fe/GaAs contact**
 Borukhovich A.S.¹, Ignat'eva N.I.², Stognii A.I.³, Yanushkevich K.I.³
¹*Russian State Vocational Pedagogical University, Yekaterinburg, Russia*
²*Solid State Chemistry Institute of Ural Division of RAS, Yekaterinburg, Russia*
³*Joint Institute of Solid State and Semiconductor Physics, National Academy of Sciences of Belarus, Minsk*

- CB-30/5 Experimental investigation of magnetic anisotropy of thin magnetic films**
 Ubizskii S.B.¹, Pavlyk L.P.¹, Syvorotka I.I.²
¹*Lviv Polytechnic National University, Lviv, Ukraine*
²*Scientific Research Company „Carat”, Lviv, Ukraine*

9.00-13.00 **Poster Session CP.**

Section 4. Electrooptic and Magneto optic Materials

Chairmen: Edel'man I., Belyaeva A.

- CP-4P/1 Research nanophotonics materials in terms of weakly-dissipative theory by Kolmogorov - Arnold - Moser**
 Bogdanov R.I.¹, Demin A.V.²
¹*Skobeltsyn Institute of Nuclear Physics, Moscow State University, Moscow, Russia*
²*All-Russian Research Institute for Optical and Physical Measurements, Moscow, Russia*
- CP-4P/2 On the laser-induced remagnetization of tunnel magnetic junctions**
 Krupa M.M., Korostil A.M.
Institute of Magnetism NAS of Ukraine, Kyiv, Ukraine
- CP-4P/3 Optical activity of imperfect 1D-multilayer composite material**
 Rumyantsev V.V., Fedorov S.A., Gumennyk K.V.
A.A. Galkin Institute for Physics and Engineering of National Academy of Sciences of Ukraine Donetsk, Ukraine
- CP-4P/4 The temperature- and geometry-dependent photonic band gap spectra of the photonic crystals with two superconducting defect layers**
 Dadoenkova N.N.¹, Lyubchanskii I.L.¹, Lee Y.P.² and Rasing Th.³
¹*Donetsk Physical & Technical Institute of the National Academy of Sciences of Ukraine, and Department of Physics, Donetsk National University, Donetsk, Ukraine*
²*q-Psi and Department of Physics, Hanyang University, Seoul, Korea*
³*Institute for Molecules and Materials, Radboud University Nijmegen, Nijmegen, The Netherlands*

- CP-4P/5 Giant Faraday Effect in microcavity 1D-MPC with double layer Bi: YIG films**
 Berzhansky V.N.¹, Karavainikov A.V.¹, Prokopov A.R.¹,
 Shaposhnikov A.N.¹, Mikhailova T.V.¹, Kharchenko Yu.N.²,
 Lukienko I.M.², Miloslavskaya O.V.², Kharchenko M.F.²
¹Taurida National V. I. Vernadsky University, Simferopol, Ukraine
²Institute for Low Temperature Physics and Engineering of NAS of Ukraine, Kharkov, Ukraine
- CP-4P/6 Bi: YIG films properties modification by substrate surface ion pretreatment**
 Shaposhnikov A.N.¹, Prokopov A.R.¹, Karavainikov A.V.¹,
 Berzhansky V.N.¹, Sharay I.V.², Bar'yakhtar V.G.²
¹V.I Vernadsky Taurida National University, Simferopol, Ukraine
²Institute of Magnetism, NAS of Ukraine, Kiev, Ukraine
- CP-4P/7 Localization of optical fluxes at two nonlinear optical waveguides in anharmonic medium**
 Gerasimchuk V.S.¹ and Gerasimchuk I.V.²
¹National Technical University of Ukraine "Kyiv Polytechnic Institute", Ryiv, Ukraine
²Institute of Magnetism, Nacional Academy of Sciences of Ukraine and Ministry of Education and Science of Ukraine, Kyiv, Ukraine
- CP-4P/8 The analysis of the magnetorefractive effect in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ thin films in IR spectral range**
 Yurasov A.N.¹, Bakhvalova T.N.¹, Telegin A.V.², Sukhorukov Yu.P.²
¹Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russian Federation
²Institute of Metal Physics, Ural Division of RAS, Ekaterinburg, Russian Federation
- CP-4P/9 Femtosecond dynamics of Faraday rotation in thin magnetic films and magnetophotonic crystals**
 Sharipova M.I.¹, Zhdanov A.G.¹, Chetvertuhin A.V.¹, Dolgova T.V.¹,
 Shapaeva T.B.¹, Shaposhnikov A.N.², Prokopov A.R.²,
 Karavainikov A.V.², Fedyanin A.A.¹
¹Faculty of physics, Lomonosov Moscow State University, Moscow, Russia
²Taurida National V.I. Vernadsky University, Simferopol, Ukraine
- CP-4P/10 Laser-spectroscopic complex for measurements of nonlinear- optical constants in nanophotonics**
 Afonina S.M.¹, Demin A.V.², Fedyanin A.A.¹, Maslennikov E.D.¹,
 Zobotnov S.V.¹
¹Physics Department, M.V. Lomonosov Moscow State University, Moscow, Russia
²All-Russian Research Institute for Optical and Physical Measurements, Moscow, Russia

- CP-4P/11 Optical and magneto-optical properties of $\text{Fe}_x\text{Ga}_{1-x}\text{BO}_3$ crystals**
Edelman I.¹, Malakhovskii A.¹, Sokolov A.¹, Sukhachev A.¹, Zabluda V.¹,
Yagupov S.², Strugatsky M.², Postivey N.², Seleznyova K.²
¹*L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia*
²*Taurida National University, Simferopol, Ukraine*
- CP-4P/12 Monocrystal system $\text{Fe}_x\text{Ga}_{1-x}\text{BO}_3$ for research in solid state physics**
Yagupov S.V., Strugatsky M.B., Postivey N.S., Seleznyova K.A.,
Yagupov V.S., Milyukova E.T.
Taurida National University, Simferopol, Ukraine
- CP-4P/13 Magnetic and natural circular dichroism of $\text{Nd}_{0.5}\text{Gd}_{0.5}\text{Fe}_3(\text{BO}_3)_4$ single crystal**
Sukhachev A.L., Malakhovskii A.V., Leont'ev A.A., Gudim I.A.
L.V. Kirensky Institute of Physics, SB RAS, Krasnoyarsk, Russia
- CP-4P/14 Magnetic circular dichroism of thin and ultrathin iron garnet films**
Mikhailova T.V.¹, Berzhansky V.N.¹, Shaposhnikov A.N.¹, Prokopov A.R.¹,
Karavainikov A.V.¹, Kotov V.A.², Alyab'eva L.N.³, Burkov V.I.³,
Balabanov D.E.³, Baturin A.S.³
¹*Joint International Laboratory LEMAC: Taurida National V. Vernadsky University, Simferopol, Ukraine*
²*Kotel'nikov Institute of Radio Engineering and Electronics of RAS, Moscow, Russia*
³*Moscow Institute of Physics and Technology, Dolgoprudny, Moscow Region, Russia*
- CP-4P/15 Visible magnetic circular dichroism in gold nanoparticles**
Zabluda V.N.¹, Sokolov A.E.¹, Ovchinnikov S.G.¹, Zubavichus Ya.V.²,
Kalsin A.M.³
¹*The Kirensky Institute of Physics of SB RAS, Krasnoyarsk, Russia*
²*Kurchatov Center for Synchrotron Radiation and Nanotechnology, Moscow, Russia*
³*A.N. Nesmeyanov Institute of Organoelement Compounds Russian Academy of Sciences, Moscow, Russia*
- CP-4P/16 Technology and properties of DAST nanocrystals in polymeric thin films for electrooptic applications**
Burunkova J.E., Denisyuk I.Yu., Minozhenko O.A.
Saint-Petersburg State University of Information Technologies, Mechanics and Optics, Saint-Petersburg, Russia

- CP-4P/17 Optical and magneto-optical properties of γ -Fe₂O₃ magnetic fluids**
 Klimov A.^{1,3,4}, Pernod P.¹, Preobrazhensky V.^{1,2}, Pyl'nov Yu.^{1,3},
 Rudenko V.^{1,5}, Dupuis V.⁶, Neveu S.⁶
Joint International Laboratory LEMAC:
¹*IEMN, UMR, PRES Lille Nord de France, ECLille, Villeneuve d'Ascq, France*
²*Wave Research Center, GPI RAS, Moscow, Russia*
³*MIREA, Moscow, Russia*
⁴*V.A. Kotel'nikov Institute of Radioengineering and Electronics, Moscow, Russia*
⁵*V.I. Vernadsky Taurida National University, Simferopol, Ukraine*
⁶*UPMC Univ. Paris 6, PECSA, Paris, France*
- CP-4P/18 Experimental investigation of magnetic characteristics of documents magnetic protection on the basis of dispersed ferromagnets**
 Agalidi Yu.S., Kozhukhar P.V., Levyi S.V., Machnev O.M., Ponomarev S.L.
National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine
- CP-4P/19 Strained garnet films for trapping ultra-cold neutral atoms and multilevel thermomagnetic recording**
 Vishnevskii V.G., Nedviga A.S., Berzhansky V.N., Milyukova H.T., Nesteruk A.G., Danishevskaya O.V.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- CP-4P/20 Fractal structures in strained garnet films**
 Vishnevskii V.G., Berzhansky V.N., Danishevskaya O.V.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- CP-4P/21 E-surface waves excitation as a control for templates' relief**
 Demidenko Yu.V.
V. Lashkariyov Institute of Semiconductor Physics, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- CP-4P/22 Shape influence on absorption spectrum in system of gold ellipsoidal particles placed on semiconductor interface under excitation surface plasmon-polariton**
 Demidenko Yu.V.¹, Glumova M.V.², Lozovski V.Z.³
¹*V. Lashkariyov Institute of Semiconductor Physics, National Academy of Sciences of Ukraine, Kyiv, Ukraine*
²*Tavrida National V.I. Vernadsky University, Simferopol, Crimea, Ukraine*
³*Institute of High Technologies, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
- CP-4P/23 Two-photon luminescent and nonlinear optical properties of organic and semiconductor nanostructures**
 Sherstyuk N.¹, Shvyrykov K.¹, Semin S.^{1,2}, Mishina E.¹
¹*Moscow State Institute of Radioengineering, Electronics and Automation, Moscow, Russia*
²*Radboud University, Institute for Molecules and Materials, Nijmegen, The Netherlands*

- CP-4P/24 The magnetorefractive effect in manganites in the visible region**
Telegin A.V.¹, Sukhorukov Yu.P.¹, Granovskii A.B.², Gan`shina E.A.², Kaul A.², Caicedo J.³
¹*Institute of Metal Physics, Ural Division of RAS, Ekaterinburg, Russia*
²*Moscow State University, Moscow, Russia*
³*Inst. de Ciència de Materials de Barcelona-CSIC, Bellaterra, Catalonia, Spain*
- CP-4P/25 The effect of NO₃- impurities on effectiveness of creation of hole centers in sulfates of alkaline metals**
Nurakhmetov T., Salikhoja Zh., Kainarbai A.
L.N. Gumilyov Eurasian National University, Astana, Kazakhstan
- CP-4P/26 Modulation of light polarization at its extending along a plane of ferrite garnet epitaxial film**
Basiladze G.D., Berzhansky V.N., Dolgov A.I.
Taurida National V. Vernadsky University, Simferopol, Ukraine
- CP-4P/27 Generation of optical vortices in layered helical waveguides**
Alexeyev C.N., Lapin B.P., Yavorsky M.A.
Taurida National V.I. Vernadsky University, Simferopol, Crimea, Ukraine

9.00-13.00 **Poster Session CQ.**

Section 5. Piezoelectric and Magnetolectric Materials. Multiferroics

Chairmen: Gippius A., Pogorilii A.

- CQ-5P/1 Structural and magnetic properties of BiFeO₃-based films**
Galias A.I.¹, Demidenko O.F.¹, Mazur A.S.², Makoed I.I.³, Makovetskii G.I.¹, Moshchalkov V.V.⁴, Pogorily A.M.⁵, Ravinski A.F.^{3,6}, Lozenko V.V.⁴, Tarasenko T.N.², Tovstolytkin A.I.⁵, Polek T.I.⁵, Yanushkevich K.I.¹
¹*SSPA "Scientific-Practical Materials Research Center of NASB", Minsk, Belarus*
²*Donetsk Institute for Physics and Engineering named after O.O. Galkin of NASU, Donetsk, Ukraine*
³*A.S. Pushkin Brest State University, Brest, Belarus*
⁴*Institute for Nanoscale Physics and Chemistry, Leuven, Belgium*
⁵*Institute of Magnetism of NASU, Kyiv, Ukraine*
⁶*State University of Bialystok, Bialystok, Poland*
- CQ-5P/2 The effects of magnetic structure parity in a spin-wave electrodynamic of semi-bounded magnetolectric**
Kulagin D.V.¹, Kotov V.A.², Shavrov V.G.², Savchenko A.S.¹, Tarasenko A.S.¹, Tarasenko S.V.¹, Tsybmal L.T.¹
¹*Donetsk Institute for Physics and Engineering of NASU, Donetsk, Ukraine*
²*Institute of Radioengineering and Electronics of RAS, Moscow, Russia*
- CQ-5P/3 Polarization switching in multilayer multiferroic structures**
Ilyin N.¹, Sherstyuk N.¹, Muhortov V.², and Mishina E.¹
¹*Moscow State Institute of Radioengineering, Electronics and Automation, Moscow, Russia*
²*South Scientific Center of Russian Academy of Science, Rostov-on-Don, Russia*

- CQ-5P/4 Structural and magnetic properties of new multiferroic $\text{Ba}_3\text{TaFe}_3\text{Si}_2\text{O}_{14}$ studied by the Mössbauer spectroscopy**
Naumov P.G.^{1,2}, Lyubutin I.S.¹, Mill' B.V.³
¹*Shubnikov Institute of Crystallography, RAS, Moscow, Russia*
²*Max-Planck Institute for Chemistry, Mainz, Germany*
³*Moscow State University, Physical Department, Moscow, Russia*
- CQ-5P/5 Epitaxial growth of BiFeO_3 and BiMnO_3 film layers**
Nikolaenko Yu.M., Mukhin A.B., Lubchanskii M.I., Khokhlov V.A.
Donetsk Institute for Physics & Technology, National Academy of Sciences, Donetsk, Ukraine
- CQ-5P/6 Domain structure of the multiferroic BiFeO_3 under external fields and stress**
Korniienko Ie.¹ and Gomonay H.V.^{1,2}
¹*National Technical University of Ukraine "KPI", Kyiv, Ukraine*
²*Bogolyubov Institute for Theoretical Physics NAS of Ukraine, Kyiv, Ukraine*
- CQ-5P/7 Domain structures of a weak ferromagnet in an electric field**
Gerasimchuk V.S.¹ and Shitov A.A.²
¹*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine*
²*Donbass National Academy of Civil Engineering, Makeevka, Ukraine*
- CQ-5P/8 Viscoelastic characteristics of piezoelectric ceramics measured by the resonant ultrasound spectroscopy**
Burdin D.A.¹, Chashin D.V.¹, Economov N.A.¹, Fetisov Y.K.¹ and Segalla A.G.²
¹*Moscow Institute of Radio Engineering, Electronics and Automation, Moscow, Russia*
²*ELPA Company, Zelenograd, Moscow, Russia*
- CQ-5P/9 Lead - free piezoceramics based on $(\text{K,Na})\text{NbO}_3$**
Gusakova L.G., Ishchuk V.M., Kuzenko D.V., Spiridonov N.A., Pogibko V.M., Kisel N.G.
STC Reactivelectron National Academy of Sciences of Ukraine, Donetsk, Ukraine
- CQ-5P/10 Temperature characteristics of piezoelectric sensor of permanent magnetic fields**
Chashin D.V., Burdin D.A., Ekonomov N.A., Fetisov Y.K.
Moscow Institute of Radio Engineering, Electronics and Automation, Moscow, Russia
- CQ-5P/11 Piezoelectric resonance sensor of permanent magnetic fields**
Sopilnyak A.V., Fetisov Y.K.
Moscow Institute of Radio Engineering, Electronics and Automation, Moscow, Russia
- CQ-5P/12 Technology and properties of magnetoelectric «ferrite – piezoelectric» composites which have volumetric heterogeneity**
Kopayev A.V., Yaremiy I.P., Tafiychuk Y.M., Bushkova V.S.
Vasyl Stefanyk Pre-Carpathian National University, Ivano-Frankivsk, Ukraine

- CQ-5P/13 Magnetolectric effect in magnetostrictive-piezoelectric thin film-substrate structure**
 Firsova T.O., Filippov D.A.
Novgorod State University, Veliky Novgorod, Russia
- CQ-5P/14 Inverse magnetolectric effect theory for solid-state electronic devices**
 Galkina T.A., Filippov D.A., Strunkov P.F.
Yaroslav-the-Wise Novgorod State University, Veliky Novgorod, Russia
- CQ-5P/15 PZT-based ceramic materials with FE-AFE phase transitions under action of hydrostatic pressure**
 Spiridonov N.A.¹, Ishchuk V.M.¹, Spiridonov V.N.²
¹*Sci. & Engin. Center "Reactivelektron" of Ukraine Nation. Acad. Sci., Donetsk Ukraine*
²*Donetsk A.A. Galkin Phys. & Engin. Inst. of Ukraine Nation. Acad. Sci., Donetsk Ukraine*
- CQ-5P/16 Structure and electrical properties of epitaxial thin AlN films formed onto SiC/Si substrate**
 Sergeeva O.N.¹, Bogomolov A.A.¹, Solnyshkin A.V.¹, Bessolov V.N.², Pronin I.P.², Kukushkin S.A.³, Osipov A.V.³
¹*Tver State University, Tver, Russia*
²*Ioffe Institute, St.-Petersburg, Russia*
³*Institute of Problems of Mechanical Engineering, St.-Petersburg, Russia*
- CQ-5P/17 Peculiarities of magnitostructural phase transition in MnAs: magnetovolume analysis and ab initio study**
 Golovchan A.V.^{1,2}, Griбанov I.F.¹
¹*Donetsk Institute for Physics and Engineering named after O.O.Galkin of the NAS of Ukraine, Donetsk, Ukraine*
²*Donetsk National University, Donetsk, Ukraine*
- CQ-5P/18 Formation of nanodimensional CoSb₃ films – functional elements of thermoelectrics**
 Makogon Yu.N.¹, Albrecht M.², Beddies G.², Paylova E.P.¹, Sidorenko S.I.¹, Verbitska T.I.¹, Shkarban R.A.¹, Daniel M.²
¹*National Technical University of Ukraine "KPI", Kiev, Ukraine*
²*Institute of Physics, Chemnitz University of Technology, Germany*
- CQ-5P/19 Moessbauer and NMR study of prospective thermoelectric compounds Fe_{1-x}Co_xGa₃**
 Gippius A.A.^{1,2}, Gervits N.E.^{1,2}, Tkachev A.V.^{1,2}, Buettgen N.³, Kraetschmer W.³, Likhanov M.S.⁴, Verchenko V.Yu.⁴, Shevelkov A.V.⁴
¹*Department of Physics, Moscow State University, Moscow, Russia*
²*A.V. Shubnikov Institute of Crystallography, Moscow, Russia*
³*Center for Electronic Correlations and Magnetism EKM, University of Augsburg, Augsburg, Germany*
⁴*Department of Chemistry, Moscow State University, Moscow, Russia*
- CQ-5P/20 Thermoelectric materials based on the barium, strontium plumbates**
 Chizhova Ye.A., Klyndyuk A.I.
Belarus State Technological University, Minsk, Belarus

- CQ-5P/21 On the nature of the electrical conductivity of “black” LiNbO₃ crystals**
Yevdokimov S.¹, Pritulenko A.¹, Yatsenko A.¹, Sugak D.^{2,3}, Solskii I.³
¹*Taurida National University, Simferopol, Ukraine*
²*Lviv Politechnic National University, Lviv, Ukraine*
³*Scientific Research Company “Carat”, Lviv, Ukraine*
- CQ-5P/22 Investigation of the defect structure of LiNbO₃ crystals with threshold Mg concentration**
Yevdokimov S.¹, Yatsenko A.¹, Sugak D.^{2,3}, Solskii I.³
¹*Taurida National University, Simferopol, Ukraine*
²*Lviv Politechnic National University, Lviv, Ukraine*
³*Scientific Research Company “Carat”, Lviv, Ukraine*
- CQ-5P/23 The analysis of the LiNbO₃ crystal structure under T < 300K**
Schostak R., Yatsenko A.
Taurida National University, Simferopol, Ukraine
- CQ-5P/24 Simple device for ultra low frequency impedance measurements**
Yevdokimov S., Pritulenko A., Yatsenko A.
Taurida National university, Simferopol, Ukraine

Thursday, October 6

9.00-13.00**Oral Session DA.****Section 4. Electrooptic and Magneto optic Materials****Chairmen:** Chigrin D., Pavlov V.

- DA-4L/1 Optical activity in metamaterials** (*Invited*)
Chigrin Dmitry N.¹, Zhukovsky Sergei V.^{1,2} and Kremers Christian¹
¹*Faculty of Electrical, Information, and Media Engineering University of Wuppertal, Wuppertal, Germany*
²*Department of Physics, University of Toronto, Toronto, Ontario, Canada*
- DA-4L/2 Magneto-optics of ferromagnetic metals nanoparticles fabricated by ion implantation in dielectric matrix** (*Invited*)
Edel'man I.S.
L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russian Federation
- DA-4O/1 Reflection and transmission of electromagnetic waves by a structure containing dispersive left-handed material waveguide** (*Invited*)
Ubeid Muin F.¹, Shabat Mohammed M.¹, Sid-Ahmed Mohammed O.²
¹*Department of Physics, Faculty of Science, Islamic University of Gaza P.O., Palestinian Authority*
²*Department of Physics, Faculty of Science, Sudan University of Science and Technology, The Republic of The Sudan*
- DA-4O/2 Coherent spin manipulation in orthoferrites**
Sato T.^{1,2}, Iida R.¹, Shimura T.¹, Kuroda K.¹, Ivanov B.A.³
¹*Institute of Industrial Science, University of Tokyo, Tokyo, Japan*
²*PRESTO, Japan Science and Technology Agency, Saitama, Japan*
³*Institute of Magnetism, Ukrainian Academy of Science, Kiev, Ukraine*
- DA-4O/3 Photoinduced nucleation in magnetically ordered medium**
Tychko O.V.
Taras Shevchenko Kiev National University, Department of Radiophysics, Kiev, Ukraine
- DA-4O/4 Nonlinear optical diffraction by standing acoustic waves in a crystalline film**
Shevchenko N.A.¹, Dadoenkova N.N.¹, Lyubchanskii I.L.^{1,2}, Bentivegna F.F.L.³, Lee Y.P.⁴, and Rasing Th.⁵
¹*Donetsk Physical and Technical Institute of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*
²*Department of Physics, Donetsk National University, Donetsk, Ukraine*
³*ENIB-RESO, Université Européenne de Bretagne, Brest Cedex, France*
⁴*Quantum Photonic Science Research Center and Department of Physics, Hanyang University, Seoul, Korea*
⁵*Institute for Molecules and Materials, Radboud University Nijmegen, Heyendaalseweg, Nijmegen, The Netherlands*

- DA-40/5 Electric field controlled optical and magneto-optical effects at light transmission through a one-dimensional magnetic photonic crystal with complex electro-optic/magneto-optic defect layer**
 Dadoenkova Yu.S.¹, Lyubchanskii I.L.^{1,2}, Lee Y.P.³, Rasing Th.⁴
¹*Donetsk Physical & Technical Institute of the NAS of Ukraine, Donetsk, Ukraine*
²*Department of Physics, Donetsk National University, Donetsk, Ukraine*
³*Quantum Photonic Science Research Center (q-Psi) and Hanyang University, Seoul, Republic of Korea*
⁴*Radboud University Nijmegen, Institute for Molecules and Materials, Nijmegen, the Netherlands*
- DA-40/6 Magneto-optical activity of $f-f$ transitions in Dy^{3+} ion in glasses and in $DyFe_3(BO_3)_4$ single crystal**
 Malakhovskii A.V., Strokova A.Yu., Sukhachev A.L., Gudim I.A.
L.V. Kirensky Institute of Physics, SB RAS, Krasnoyarsk, Russia
- DA-40/7 Abnormal Grain Growth in Tungsten Bronze Structured SBN Ceramics**
 Lee Joon-Hyung, Kim Jeong-Joo, Cho Sang-Hee
School of Materials Science and Engineering, Kyungpook National University, Daegu, Korea
- DA-40/8 Evolution of structure state and optical properties of recrystallized tungsten mirrors under influence of iter-factors**
 Belyaeva A.I.¹, Galuza A.A.², Savchenko A.A.¹, Kolenov I.V.¹
¹*National technical university "KPI", Kharkov, Ukraine*
²*Institute of electrophysics and radiation technologies NAS of Ukraine, Kharkov, Ukraine*
- DA-40/9 Magnetotransmission in nanocomposite on the base of $Nd_{0.5}Sr_{0.5}MnO_3$**
 Mostovshchikova E.V., Loshkareva N.N., Gizhevskii B.A., Solin N.I., Ahmetyanova E.M.
Institute of Metal Physics Ural Division of RAS, Ekaterinburg

9.00-11.00 Oral Session DL.1.

Workshop LOD & Section 8. Luminescent and Radiation Sensing Materials I

Chairmen: Chukova O., Dotsenko V.

- DL.1-L/1 High pressure spectroscopy of Ln^{3+} and Ln^{2+} ions doped materials**
 Grinberg M.
Institute of Experimental Physics, University of Gdańsk, Gdańsk, Poland
- DL.1-O/1 Redox processes and luminescence phenomena in Ca_2BO_3Cl doped with Eu^{2+} and Ce^{3+} ions**
 Dotsenko V.P.¹, Berezovskaya I.V.¹, Voloshinovskii A.S.², Stryganyuk G.B.^{2,3}
¹*A.V. Bogatsky Physico-Chemical Institute, National Academy of Sciences, Odessa, Ukraine*
²*Ivan Franko National University of Lviv, Lviv, Ukraine*
³*HASYLAB at DESY, Notkestraße 85, Hamburg, Germany*

- DL.1-O/2 Energy transfer in $\text{Lu}_x\text{Y}_{1-x}\text{BO}_3:\text{RE}^{3+}$ (RE = Eu, Ce) solid solutions**
 Spassky D.A.¹, Levushkina V.S.², Mikhailin V.V.^{1,2}, Tretyakova M.S.³,
 Zadneprovski B.I.³
¹*Skobeltsyn Institute of Nuclear Physics, Moscow State University, Moscow, Russia*
²*Physics Faculty, Moscow State University, Moscow, Russia*
³*Central Research and Development Institute of Chemistry and Mechanics, Moscow, Russia*
- DL.1-O/3 Effects annealing on luminescence and excitation spectra of the lead tungstate crystals**
 Chukova O., Nedilko S., Scherbatsky V.
Physics Faculty, National Taras Shevchenko University of Kyiv, Kyiv, Ukraine
- DL.1-O/4 Growth and properties of $\text{CdLn}_2(\text{WO}_4)_4$ (Ln-La, Gd) single crystals**
 Baumer V.N.¹, Gorobets Yu.N.¹, Kosmyna M.B.¹, Nazarenko B.P.¹,
 Puzikov V.M.¹, Shekhovtsov A.N.¹, Zelenskaya O.V.²
¹*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
²*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*
- DL.1-O/5 Luminescence and electronic excitations in $\text{Li}_6\text{Gd}(\text{BO}_3)_3:\text{Ce}^{3+}$**
 Sedunova I.N.¹, Ogorodnikov I.N.¹, Isaenko L.I.², Zhurkov S.A.²
¹*Ural Federal University, Yekaterinburg, Russia*
²*Institute of Geology and Mineralogy, SB RAS, Novosibirsk, Russia*
- DL.1-O/6 Obtaining and luminescent properties of rare earth tantalates**
 Voloshina O.V.¹, Baumer V.N.², Neicheva S.V.¹, Starzhinsky N.¹,
 Katrunov K.¹, Zenya I.¹, Zhukov A.¹, Sidletskiy O.Ts.¹
¹*Institute for scintillation materials NAS of Ukraine, Kharkov, Ukraine*
²*SSI «Institute for single crystals» NAS of Ukraine, Kharkov, Ukraine*

11.15-13.00 Oral Session DL.2.

Workshop LOD & Section 8. Luminescent and Radiation Sensing Materials I

Chairmen: Grinberg M., Mikhailin V.

- DL.2-L/1 Luminescence spectroscopy of oxide insulators using synchrotron radiation**
 Mikhailin V.
Synchrotron radiation laboratory, Physics Department, M.V. Lomonosov Moscow State University, Moscow, Russia

- DL.2-O/1 Excitation energy transfer to the luminescence centers in CaMoO₄ and SrMoO₄ single crystals at low temperatures**
 Savon A.E.¹, Mikhailin V.V.^{1,2}, Spassky D.A.², Hizhnyi Yu.A.³, Nedilko S.G.³, Ivleva L.I.⁴
¹*Physics Faculty, Moscow State University, Moscow, Russia*
²*Skobeltsyn Institute of Nuclear Physics, Moscow State University, Moscow, Russia*
³*Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
⁴*A.M. Prokhorov General Physics Institute of RAS, Moscow, Russia*
- DL.2-O/2 Spectroscopy and electronic structure of the set of Bi-containing complex oxide compounds**
 Hizhnyi Yu.¹, Chornii V.¹, Nedilko S.¹, Slobodyanik M.¹, Terebilenko K.¹, Boyko V.²
¹*Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
²*National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine*
- DL.2-O/3 Influence of deep hole traps on luminescent and dosimetric properties of anion-defective crystals of aluminum oxide**
 Nikiforov S.V., Kortov V.S.
Ural Federal University named after the First President of Russia B.N. Yeltsin, Ekaterinburg, Russia
- DL.2-O/4 Luminescence of gadolinium molybdate under VUV and XUV excitation**
 Gofman I.A.¹, Pustovarov V.A.¹, Zhuravlev V.D.²
¹*Ural Federal University, Yekaterinburg, Russia*
²*Institute of Solid State Chemistry of Ural Division of RAS, Yekaterinburg, Russia*
- DL.2-O/5 Intrinsic UV-VUV luminescence and X-ray emission of self-trapped excitons in complex oxide dielectrics**
 Ivanov V.¹, Pustovarov V.¹, Kikas A.², Käämbre T.², Kirm M.², Kuusik I.²
¹*Yeltsin Ural Federal University, Yekaterinburg, Russia*
²*Institute of Physics, University of Tartu, Tartu, Estonia*

9.00-14.00**Poster Session DP.****Section 9. Nanophysics & Nanotechnologies for Functional Materials**

Chairmen: Mironov V., Kliava J.

- DP-9P/1 Ab-initio calculations of carbon nanotubes with different nitrogen content**
 Boutko V.G., Gusev A.A., Shevtsova T.N. and Pashkevich Yu.G.
A.A. Galkin Donetsk PhysTech NASU, Donetsk, Ukraine

- DP-9P/2 1/f noise of Luttinger liquid in carbon nanotube bundles**
 Petrychuk M.V.¹, Danilchenko B.A.², Tripachko N.A.², Vitusevich S.A.³,
 Sydoruk V.A.³ and Sundqvist B.⁴
¹*Taras Shevchenko National University, Kiev, Ukraine*
²*Institute of Physics, NASU, Kiev, Ukraine*
³*Institute of Bio- and Nanosystems, Forschungszentrum Jülich, Germany*
⁴*Department of Physics, Umea University, Umea, Sweden*
- DP-9P/3 About the nanocarbon materials based on carbon nanotubes conductivity mechanisms in a magnetic field**
 Len T., Ovsienko I., Matzui L.
Physics department, Taras Shevchenko Kyiv University, Ukraine
- DP-9P/4 The influence of deformation on the resistance, thermopower and structural relaxation of polymer-carbon nanocomposite materials**
 Revo S.L., Zakharenko M.I., Ivanenko E.A.
Department of Physics, National Taras Shevchenko University, Kyiv, Ukraine
- DP-9P/5 Electrical and thermal conductivity of epoxy composites containing hybrid carbon fillers**
 Vovchenko L.L., Zhuravkov A.V., Matzui L.Yu., Ovsienko I.V.,
 Ferenchuk D.L.
Department of Physics, Kyiv National Taras Shevchenko University, Kyiv, Ukraine
- DP-9P/6 The electrical properties of nanocarbon-polymer composites with different structure and morphology**
 Lazarenko O.A., Vovchenko L.L., Matsui L.Yu., Perets J.
Department of Physics, Kyiv National Shevchenko University, Kyiv, Ukraine
- DP-9P/7 Radiation modification of polyethylene composites of multi-walled carbon nanotubes**
 Pinchuk-Rugal' T.M.¹, Nechyporenko O.S.¹, Dmytrenko O.P.¹,
 Kulish M.P.¹, Grabovskyy Yu.E.¹, Zabolotnyy M.A.¹, Mamunya E.P.²,
 Levchenko V.V.², Strelchuk V.V.³, Shlapatska V.V.⁴, Rugal' O.G.¹
¹*Kyiv National Shevchenko University, Departments of Physics Volodymyrska, Kyiv, Ukraine*
²*Institute of Macromolecular Chemistry NAS of Ukraine, Kyiv, Ukraine*
³*Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine*
⁴*Pisarghevskiy Institute of Physical Chemistry of NAS of Ukraine, Kyiv, Ukraine*
- DP-9P/8 Magnetic properties of Co particles embedded in graphite matrix**
 Matsui D.¹, Matzuy L.¹, Zakharenko M.¹, Perov N.², Le Normand F.³,
 Deroy A.³
¹*Department of Physics, National Taras Shevchenko University, Kyiv, Ukraine*
²*Department of Physics Moscow State University, Moscow, Russia*
³*Groupe Surfaces-Interfaces, Institut de Physique et Chimie des Matériaux, Strasbourg, France*

- DP-9P/9 The role of dimensional parameters and surface effects in magnetic behaviour of Co nanofilms**
Roschenko S.T., Shipkova I.G., Chekrygina Iu.I.
National Technical University "Kharkov Polytechnical Institute", Kharkov, Ukraine
- DP-9P/10 An interrelation between the adsorption-desorption and surface diffusion mechanisms under concentration decomposition of an open submonoatomic overlayer**
Feldman E.P.¹, Gumennyk K.V.², Stefanovich L.I.², Terekhova Yu.V.²
¹*Institute for Physics of Mining Processes of NAS of Ukraine, Donetsk, Ukraine*
²*Galkin Institute for Physics & Engineering of NAS of Ukraine, Donetsk, Ukraine*
- DP-9P/11 Development of technology for producing carbon nanocrystalline material based on nanoparticles of metal oxides stabilized polymer**
Kuznetsova V.Yu.¹, Makarova A.V.¹, Kosobudskii I.D.^{1,2}, Ushakov N.M.²
¹*Saratov State Technical University, Saratov, Russia*
²*Saratov branch of the Institution of Russian Academy of Sciences Kotel'nikov Institute of Radio Engineering and Electronics of RAS, Saratov, Russia*
- DP-9P/12 Geometric and magnetic properties of nanoparticles Fe₃O₄ and NiFe₂O₄**
Krupa M.M., Sharay I.V.
Institute of Magnetism of the national academy of sciences of Ukraine, Kyiv, Ukraine
- DP-9P/13 Integrated thick-film structures based on functional spinel-type ceramics**
Klym H.I.^{1,2}, Hadzaman I.V.^{1,3}, Shpotyuk O.I.¹
¹*Scientific Research Company "Carat", Lviv, Ukraine*
²*Lviv Polytechnic National University, Lviv, Ukraine*
³*Drohobych State Pedagogical University, Drohobych, Ukraine*
- DP-9P/14 Geometrically regular structure of nano-sized gold on the surface of semiconductor single crystals of Si and InSe**
Karbivskyy V.L., Vishniak V.V., Shpak A.P.
G. Kurdyumov Institute for Metal Physics NAS of Ukraine, Kyiv, Ukraine
- DP-9P/15 Features of faceted grain boundaries in polysilicon films**
Nakhodkin N.G., Kulish N.P., Rodionova T.V.
Kiev National Taras Shevchenko University, Kiev, Ukraine
- DP-9P/16 Clusterization behavior of CdSe/ZnS nanocrystals in poly(n-vinylcarbazole) films versus nanocrystals concentration**
Matvienko O.O., Savin Yu.N., Kryzhanovska O.S., Vovk O.O., Dobrotvorska M.V.
Institute for Single Crystals, National Academy of Sciences of Ukraine, Kharkov, Ukraine

- DP-9P/17 Kinetics of mechano-induced segregation in chrome-nickel nanocrystalline iron-based alloys**
Stefanovich L.I., Artemov A.N., Terekhova Yu.V., Deryagin A.I., Efros B.M., Yurchenko V.M., Varyuhin V.N.
Galkin Institute for Physics & Engineering of NAS of Ukraine, Donetsk, Ukraine
- DP-9P/18 Phase transformations induced by temperature and pressure in Al/Cu multilayers produced by electron-beam physical vapor deposition**
Matvienko Ya.I.¹, Olikhovska L.O.¹, Ustinov A.I.², Falchenko Yu.V.², Melnychenko T.V.²
¹*G.V. Kurdyumov Institute for Metal Physics of the National Academy of Sciences of the Ukraine, Kyiv, Ukraine*
²*E.O. Paton Electric Welding Institute of the National Academy of Sciences of the Ukraine, Kyiv, Ukraine*
- DP-9P/19 Phase composition and magnetic properties of nano-powders obtained by an electrical explosion of iron wires**
Perekos A.E., Dubovoy A.G., Efimova T.V., Vasilenko A.S., Vojnash V.Z., Zalutskiy V.P.
G.V. Kurdyumov Institute for Metal Physics, Nat. Acad. Sci., Kyiv, Ukraine
- DP-9P/20 The thermal stability of the nanophase composites in Al-based amorphous alloys with improved physical properties**
Rassolov S.G.¹, Svyrydova K.A.¹, Popov V.V.¹, Aronin A.S.², Maksimov V.V.¹, Tkatch V.I.¹
¹*Donetsk Institute of Physics & Engineering of the NAS of Ukraine, Donetsk, Ukraine*
²*Institute of Solid State Physics of RAS, Chernogolovka, Moscow distr., Russia*
- DP-9P/21 Synthesis of nanoscale films with ordered structure based on TiO₂ nanoparticles**
Shpak A.P., Korduban O.M., Kryshchuk T.V., Kandyba V.O., Pogorelov A.E.
G.V. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine
- DP-9P/22 Obtaining, crystal structure and thermoluminescent properties of nanocrystalline YAG and YAG: Nd**
Zhydachevskii Ya.^{1,2}, Syvorotka I.I.³, Vasylechko L.¹, Sugak D.^{1,3}, Borshchyshyn I.D.¹, Luchechko A.P.⁴, Vakiv M.M.³, Suchocki A.^{2,5}
¹*Lviv Polytechnic National University, Lviv, Ukraine*
²*Institute of Physics, PAS, Warsaw, Poland*
³*Institute of Materials, SRC "Carat", Lviv, Ukraine*
⁴*Ivan Franko National University of Lviv, Lviv, Ukraine*
⁵*Institute of Physics, University of Bydgoszcz, Bydgoszcz, Poland*
- DP-9P/23 Growth of KDP single crystal doped with nanoparticles**
Pritula I.M., Kosinova A.V., Bezkravnaya O.N., Kolybaeva M.I.
Institute for Single Crystals NASU, Kharkov, Ukraine

- DP-9P/24 Obtaining and characterization of Zn-Ni-P magnetic thin films deposited on steel and copper**
Popescu A.M.¹, Constantin V.¹, Soare V.², Burada M.², Yanuskevich K.³, Demidenko O.³
¹Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania
²National Institute of Research and Development for Non-Ferrous and rare-Metals, Zip, Pantelimon, Jud.Ilfov, Romania
³Scientific Practical Materials Research Centre NAS, Minsk, Belarus
- DP-9P/25 Structure and properties of nano composites on base of HTSC compounds**
Mikhajlov B.P., Kadyrbaev A.R., Mikhajlova A.B., Shamraj V.F.
A.A. Baikov Institute of Metallurgy and Material Sciences of RAS, Moscow, Russia
- DP-9P/26 Diffractive characteristics of periodical structures fabricated with nanocomposites based on acrylic**
Vorzobova N.D., Bulgakova V.G., Burunkova J.E.
Saint-Petersburg State University of Information Technologies, Mechanics and Optics, Saint-Petersburg, Russia
- DP-9P/27 Dilute magnetic semiconductor (In,Mn,Zn)Sb: Unusual diamagnetic response and transport properties**
Krivoruchko V.N.¹, Tarenkov V.Yu.¹, Varyukhin D.V.¹, Pashkova O.N.²
¹Donetsk Physics and Technology Institute NAS of Ukraine, Donetsk, Ukraine
²N.S. Kurnakov Institute of General and Inorganic Chemistry of RAS, Moscow, Russia
- DP-9P/28 Effect of alloying chromium atoms on the defect structure and electrical properties of polycrystalline zinc selenide grown by CVD-method**
Chugai O.N.¹, Gavrishuk E.M.², Oleynick S.V.¹, Balabanov S.S.², Novohatskaya T.N.¹, Podshivalova O.V.¹, Rodin S.A.², Shmatko A.A.¹, Timofeeva N.A.², Abashin S.L.¹
¹National aerospace university "KhAI", Kharkiv, Ukraine
²Institute of Chemistry of High-Purity Substances of the Russian Academy of Sciences, Nizhny Novgorod, Russia
- DP-9P/29 Stabilization of intermediate NiSi phase as functional element of circuits with advanced level of integration produced by CMOS-technologies**
Makogon Yu.N.¹, Beddies G.², Beke D.L.³, Csik A.³, Pavlova E.P.¹, Sidorenko S.I.¹, Verbitska T.I.¹
¹National Technical University of Ukraine "KPI", Kiev, Ukraine
²Institute of Physics, Chemnitz University of Technology, Germany
³University of Debrecen, Department of Solid State Physics, Hungary

- DP-9P/30 Electrical conduction in $\text{In}_2\text{O}_{3-\delta}\text{:Sr}$ with different oxygen content**
 Nikolaenko Yu.M.¹, Kuzovlev Yu.E.¹, Medvedev Yu.V.¹, Mezin N.I.¹,
 Bondarchuk A.N.², Glot A.B.²
¹*Donetsk Institute for Physics & Technology, National Academy of Sciences, Donetsk, Ukraine*
²*Universidad Tecnológica de la Mixteca, Huajuapán de León, Oaxaca, Mexico*
- DP-9P/31 Microwave synthesis of ZnS, ZnSe and MgSe**
 Sofronova E.M., Sofronov D.S.
SSI STC "Institute for Single Crystals" NAS of Ukraine, Kharkov, Ukraine
- DP-9P/32 Current state of the production CdTe, ZnTe, CdZnTe and devices from these materials**
 Kulchitsky N.A., Meinikov A.A.
Moscow State Institute of Radio Engineering, Electronics and Automatics (MIREA), Moscow, Russia
- DP-9P/33 Electrically stimulated diffusion of oxygen anion in $\text{In}_2\text{O}_3\text{:Sr}$ and $\text{In}_2\text{O}_3\text{:Sn}$**
 Nikolaenko Yu.M.¹, Kuzovlev Yu.E.¹, Genenko Yu.A.², von Seggern H.²
¹*Donetsk Institute for Physics & Technology, National Academy of Sciences, Donetsk, Ukraine*
²*Darmstadt University of Technology, Darmstadt, Germany*
- DP-9P/34 Inelastic electron scattering cross section spectroscopy of SiO_2/Si structures**
 Parshin A.S.¹, Kushchenkov S.A.¹, Mikhlin Yu.L.², Pchelyakov O.P.³,
 Hasanov T.³
¹*M.F. Reshetnev Siberian State Aerospace University, Krasnoyarsk, Russia*
²*Chemistry and Chemical Technology Institute, SB RAS, Krasnoyarsk, Russia*
³*A.V. Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia*
- DP-9P/35 The X-ray diagnostics a decay of oxygen solid solution in silicon upon thermal treatment and external stress**
 Mykhaliuk O.V., Shevchenko I.P.
Taras Shevchenko Kyiv National University, Faculty of Physics, Kyiv, Ukraine
- DP-9P/36 Process of controlled hydrogen production from porous silicon**
 Gubov O.M., Gavrilchenko I.V., Shulimov Yu.G. and Litvinenko S.V.
Institute of High Technologies, Kyiv National Taras Shevchenko University, Kyiv, Ukraine
- DP-9P/37 Porous InP as substrate for InN**
 Kidalov V.V., Sushikova J.A., Kirilash A.I.
Berdyansk State Pedagogical University, Berdyansk, Ukraine
- DP-9P/38 The influence of stoichiometry on the conductivity amorphous films**
 Mazinov A.C.¹, Bahov V.A.², Volodin V.O.²
¹*Crimea Science Center of NASU and MESU*
²*Taurida National V.I. Vernadsky University, Simferopol, Ukraine*

- DP-9P/39 Critical exponents in percolation model of track regions with different depth distribution**
Demchyshyn Andriy, Selyshchev Pavlo
Taras Shevchenko National University of Kyiv, Faculty of Physics, Kyiv, Ukraine
- DP-9P/40 Application of Choline Chloride based ionic liquids to metals electrodeposition**
Popescu A.M.¹, Constantin V.¹, Yanushkevich K.², Demidenko O.²
¹*Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania*
²*Scientific Practical Materials Research Centre NAS, Minsk, Belarus*
- DP-9P/41 The temperature and field conditions of realization of SPM transition in the system of small particles $\text{Ca}_{0.5}\text{Ba}_{0.5}\text{Fe}_{12}\text{O}_{19}$**
Mozul K.A.¹, Shurinova E.V.¹, Chernikov S.V.²
¹*Karazin Kharkov National University, Kharkov, Ukraine*
²*Belgorod State University, Center NSMN, Belgorod, Russia*
- DP-9P/42 Magnetostatic interaction effects in geometrically frustrated nanomagnets arrays on triangular lattice**
Mironov V.L., Ermolaeva O.L., Skorohodov E.V.
Institute for Physics of Microstructures RAS, Nizhniy Novgorod, Russia
- DP-9P/43 Field-controlled domain wall pinning-depinning effects in ferromagnetic nanowire-nanoparticle system**
Mironov V.L., Ermolaeva O.L., Skorohodov E.V., Klimov A.Yu.
Institute for Physics of Microstructures RAS, Nizhniy Novgorod, Russia

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

Chairmen: Araújo J.P, Varyuchin V.

- DC-9L/1 Intrinsic properties of sp^2 nanocarbons. Concepts, drawbacks, illusions, and trends of modern computational science (Invited)**
Sheka E.F.
Peoples' Friendship University of Russia, Moscow, Russia
- DC-9L/2 Graphene: distinctive features of electronic properties in presence of defects (Invited)**
Skrypnyk Yu.V., Loktev V.M.
¹*G.V. Kurdyumov Institute for Metal Physics of the NAS of Ukraine, Kyiv, Ukraine*
²*Bogolyubov Institute for Theoretical Physics NAS of Ukraine, Kyiv, Ukraine*
- DC-9L/3 Electron magnetic resonance as a tool of studying magnetic nanoparticles (Invited)**
Kliava J.
LOMA, Université Bordeaux-I-CNRS, Talence Cedex, France

- DC-9L/4 New trend in magnetic and atomic force microscopy (Invited)**
Koblichka M.R.
Institute of Experimental Physics, Saarland University, P.O.Box-, D-Saarbrücken, Germany
- DC-9L/5 Multifunctional hafnia-based materials for microelectronic and photonic application (Invited)**
Khomenkova L.^{1,2}, Portier X.¹, Labbé C.¹, Gourbilleau F.¹
¹*CIMAP, UMR CNRS/CEA/ENSICAEN/UCBN, Boulevard Maréchal Juin Caen Cedex, France*
²*V. Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine*
- DC-9L/6 Nanofabrication using anodic alumina templates (Invited)**
Araújo J.P.¹, Sousa C.T.¹, Leitão D.¹, Proença M.¹, Apolinário A.¹, Custodio L.M.¹, Azevedo J.¹, Costa D.¹, Ventura J.¹, Pereira A.M.¹, Lopes A.M.L.²
¹*IFIMUP-IN, Departamento do Física, Universidade do Porto, Porto, Portugal*
²*Centro de Física Nuclear, Universidade de Lisboa, Lisboa, Portugal*
- DC-9O/1 Complex nanolithography for magnetic structures**
Gusev S.A., Gribkov B.A., Skorohodov E.V.
Institute for Physics of Microstructures Russian Academy of Science, Nizhny Novgorod, Russia
- DC-9O/2 Electric discharge technologies for carbon nanomaterials synthesis**
Rud A.D.¹, Ivaschuk L.I.¹, Kuskova N.I.², Tsolin P.L.², Kiryan I.M.¹, Komarov A.I.³, Komarova V.I.³, Zelinskaya G.M.¹
¹*G.V. Kurdyumov Institute for Metal Physics of NASU, Kiev, Ukraine*
²*Institute of Pulse Research and Engineering of NASU, Nikolaev, Ukraine*
³*Joint Institute for machine industry of NAS of Belarus, Minsk, Belarus*
- DC-9O/3 Adhesion and deadhesion of polymer titania nanotube surface: studies of buried interfaces**
Mishra Indu B.¹, Petuskey William¹, Levi Ken²
¹*Arizona State University, Tempe*
²*The Johns Hopkins University, Baltimore, MD*
- DC-9O/4 Nano-thin films of Ge on GaAs: preparation, properties and application**
Mitin V.F.¹, Lazarov V.K.², Lytvyn P.M.¹, Hasnip P.J.², Kholevchuk V.V.¹, Matveeva L.A.¹, Kolyadina E.Yu.¹, Kotenko I.E.³, Mitin V.V.³, Venger E.F.¹
¹*V. Lashkaryov Institute of Semiconductor Physics, NASU, Kyiv, Ukraine*
²*Department of Physics, The University of York, Heslington, York, UK*
³*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine*
- DC-9O/5 Quasi-two-dimensional electron-hole liquid and biexcitons in SiGe layers of Si/SiGe/Si heterostructures**
Burbaev T.M., Shepel D.V., Sibeldin N.N., and Skorikov M.L.
Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia

- DC-90/6 Effects of channel dimension on transfer characteristics of amorphous IGZO thin-film transistors**
Heo Young-Woo, Lee Joon-Hyung, Kim Jeong-Joo
School of Materials Science and Engineering, Kyungpook National University Daegu, Korea
- DC-90/7 Determination of the main parameters governing formation of crystalline phase in amorphous alloys and melts**
Tkatch V.I.¹, Nosenko V.K.², Rassolov S.G.¹, Maksimov V.V.¹, Kostyrya S.A.¹, Moiseeva T.N.¹
¹*O.O. Galkin Donetsk Institute of Physics & Engineering of the NAS of Ukraine, Donetsk, Ukraine*
²*G.V. Kurdyumov Institute for Metal Physics of the NAS of Ukraine, Kyiv, Ukraine*

15.00-19.00 Poster Session DQ.

Section 3. Spintronics. Transport phenomena. Multilayers

Chairmen: Morosov A., Patrin G.

- DQ-3P/1 Symmetry and the macroscopic dynamics of antiferromagnetic materials in the presence of spin-polarized current**
Gomonay H.V.^{1,2}, Kunitsyn R.V.¹ and Loktev V.^{1,2}
¹*National Technical University of Ukraine «KPI», Kyiv, Ukraine*
²*Bogolyubov Institute for Theoretical Physics NAS of Ukraine, Kyiv, Ukraine*
- DQ-3P/2 Exchange bias in a bilayer ferromagnet–antiferromagnet system with close phase transition temperatures**
Morosov A.I. and Rynkov D.O.
Moscow State Institute of Radioengineering, Electronics, and Automation (Technical University), Moscow, Russia
- DQ-3P/3 Magnetic honeycomb antidot arrays: domain structure and spatially localized resonances**
Marchenko A.I., Krivoruchko V.N.
Donetsk Physics & Technology Institute NAS of Ukraine, Donetsk, Ukraine
- DQ-3P/4 Magnetic switching of magnetic nanofilms and management spin current by pulse laser radiation**
Krupa M.M.
Institute of Magnetism of National Academie of Science of Ukraine
- DQ-3P/5 Tunnel magnetoresistance in double-barrier magnetic tunnel junction**
Useinov A.N.¹, Useinov N.Kh.², Tagirov L.R.²
¹*King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia*
²*Kazan Federal University, Kazan, Russian Federation*
- DQ-3P/6 Amplification of current in spin-dependent transistor**
Sohatsky V.P.
Taras Shevchenko Kiev National University, Kiev, Ukraine

- DQ-3P/7 Magneto-optical studies of interlayer coupling in Fe/Si/Fe tri-layers**
Kholin D.I., Drovosekov A.B., Zasukhin S.V., Kreines N.M.
P.L. Kapitza Institute for Physical Problems RAS, Moscow, Russia
- DQ-3P/8 Dependence of tunneling magnetoresistance on applied voltages in ferromagnetic-insulator-ferromagnetic junctions**
Khachaturov A.I., Khachaturova T.A.
The A.A. Galkin Physical & Technical Institute, National Academy of Sciences, Ukraine
- DQ-3P/9 Nonlinear conductivity of nanoisland metallic films in weak electric fields**
Boltaev A.P., Pudonin F.A.
P.N. Lebedev Physical Institute of the Russian Academy of Science, Moscow, Russia
- DQ-3P/10 Magnetic properties of multilayer (CoNiP_{soft}/CoP_{hard})_n films**
Patrin G.S.^{1,2}, Balaev D.A.^{1,2}, Pal'chik M.G.¹, Kiparisov S.Ya.¹
¹*L.V. Kirensky Institute of Physics, Siberian Branch, Russian Academy of Sciences, Krasnoyarsk, Russia*
²*Siberian Federal University, Krasnoyarsk, Russia*
- DQ-3P/11 Magnetoresistive properties of NiFe/Bi/NiFe films**
Patrin K.G.^{1,2}, Yakovchuk V.Yu.¹, Patrin G.S.^{1,2}, Yarikov S.A.²
¹*L.V. Kirensky Institute of Physics, Siberian Branch, Russian Academy of Sciences, Krasnoyarsk, Russia*
²*Siberian Federal University, Krasnoyarsk, Russia*
- DQ-3P/12 Negative differential conductivity in thin-film M/D/M nanostructures**
Filatov A.V.¹, Pogorelov A.E.¹, Pogoryelov Ye.A.^{2,3}
¹*G.V. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*
²*Institute for Magnetism, NAS of Ukraine, Kiev, Ukraine*
³*Material Physics, Royal Institute of Technology, Stockholm-Kista, Sweden*
- DQ-3P/13 Magnetic and magneto-optical investigations of multilayered Co/Cu nanofilms**
Lukienko I.M.¹, Kharchenko M.F.¹, Fedorchenko A.V.¹, Desnenko V.A.¹, Zorchenko V.V.², Stetsenko A.N.²
¹*B. Verkin Institute for Low Temperature Physics and Engineering, Kharkiv, Ukraine*
²*National Technical University "Kharkiv Politechnical Institute", Kharkiv, Ukraine*
- DQ-3P/14 Features of impurity segregation kinetics in multi-layer solid systems**
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

- DQ-3P/15 Collective behaviour of ferromagnetic nanoparticles in Cu-Mn-Al melt-spun ribbons**
 Konoplyuk S.M.¹, Kokorin V.V.¹, Kolomiets O.V.², Perekos A.E.³, Nadutov V.M.³
¹*Institute of magnetism, N.A.S. Ukraine, Kyiv, Ukraine*
²*Department of Condensed Matter Physics, Charles University, Prague, Czech Republic*
³*G.V. Kurdyumov Institute for metal physics, N.A.S. Ukraine, Ukraine*
- DQ-3P/16 Structural anomalies associated with the electronic and spin transitions in mixed cobaltites $R_{1-x}R'_x\text{CoO}_3$ ($R, R'=\text{La, Pr, Nd, Sm}$)**
 Vasylechko L.¹, Pavlyk L.¹, Basyuk T.¹, Myakush O.¹, Trots D.M.², Senyshyn A.³
¹*Lviv Polytechnic National University, Lviv, Ukraine*
²*Universität Bayreuth, Bayreuth, Germany*
³*Technische Universität München, Garching b. München, Germany*
- DQ-3P/17 Step-like magnetization curve in ferroborate $\text{TbFe}_3(\text{BO}_3)_4$**
 Bedarev V.A.¹, Pashchenko M.I.¹, Bludov O.M.¹, Pashchenko V.A.¹, Dergachev K.G.¹, Gnatchenko S.L.¹, Bezmaternykh L.N.², Temerov V.L.²
¹*B. Verkin Institute for Low Temperature Physics and Engineering, National Academy of Sciences of Ukraine, Kharkov, Ukraine*
²*L.V. Kirensky Institute of Physics, Siberian Branch of Russian Academy of Sciences, Krasnoyarsk, Russian Federation*
- DQ-3P/18 FMR study of magnetic anisotropy in hydrothermal synthesized CrO_2 thin films**
 Mytsyuk B.M., Podyalovskiy D.Y., Nevdacha V.V., Pogorilli A.M.
Institute of Magnetism NAS of Ukraine, Kyiv, Ukraine
- DQ-3P/19 Some features of magnetic reversal of magnetic multilayer periodical nanoislands structures**
 Boltaev A.P., Pudonin F.A., Sherstnev I.A.
P.N.Lebedev Physical Institute of the Russian Academy of Science, Moscow, Russia
- DQ-3P/20 Micromagnetic 3D modeling of anisotropic magnetoresistance of Permalloy films on patterned substrates**
 Dudko G.M., Sakharov V.K., Khivintsev Yu.V., Filimonov Yu.A.
Saratov branch of Kotel'nikov IRE RAS, Saratov, Russia
- DQ-3P/21 Synthesis of ferromagnetic $\text{Mn}_x\text{Ge}_{1-x}$ phases by interlayer solid-state reactions**
 Zhigalov V.S.^{1,3}, Matsynin A.A.^{1,3}, Myagkov V.G.¹, Bykova L.E.¹, Bondarenko A.A.² and Bondarenko G.N.²
¹*Kirensky Institute of Physics, Russian Academy of Sciences, Krasnoyarsk, Russia*
²*Institute of Chemistry and Chemical Technology, Russian Academy of Sciences, Krasnoyarsk, Russia*
³*Siberian State Aerospace University, Krasnoyarsk, Russia*

- DQ-3P/22 Influence of working gas pressure on texture and magnetic properties of Ni films prepared by dc-magnetron sputtering**
Dzhumaliev A.S., Nikulin Y.V., Filimonov Y.A.
Saratov Branch of Kotel'nikov IRE RAS, Saratov, Russia
- DQ-3P/23 Effect of La substitution on the crystal structure and magnetic properties of nanosized BiMnO₃**
Tarasenko T.N.¹, Kravchenko Z.F.¹, Kamenev V.I.¹, Galias A.I.², Demidenko O.F.², Ignatenko O.V.², Makovetskii G.I.², Yanushkevich K.I.²
¹*Donetsk Institute for Physics and Engineering named after O.O. Galkin of NASU, Donetsk, Ukraine*
²*SSPA "Scientific-Practical Materials Research Center of NASB", Minsk, Belarus*
- DQ-3P/24 Influence of intermediate Ag layer on formation of L1₀(FePt) phase in nanodimensional Fe-Pt film compositions on substrates of SiO₂/Si(001)**
Makogon Yu.N.¹, Albrecht M.², Beddies G.², Beke D.L.³, Katona G.L.³, Pavlova E.P.¹, Sidorenko S.I.¹, Verbitska T.I.¹, Vladimyrskiy I.A.¹
¹*National Technical University of Ukraine "KPI", Kiev, Ukraine*
²*Institute of Physics, Chemnitz University of Technology, Chemnitz, Germany*
³*University of Debrecen, Department of Solid State Physics, Debrecen, Hungary*
- DQ-3P/25 Magnetic properties and FMR of (CoFeB)_m(SiO₂)_{1-m}/SiC multilayer nanostructures**
Chekrygina Iu.I.¹, Kalinin Yu.E.², Lebedeva E.V.³, Shipkova I.G.¹, Shlapakov M.S.⁴, Sitnikov A.V.², Syr'ev N.E.³, Vyzulin S.A.⁴
¹*National Technical University "Kharkov Polytechnical Institute, Kharkov, Ukraine*
²*Voronezh State Technical University, Voronezh, Russia*
³*Lomonosov Moscow State University, Moscow, Russia*
⁴*Kuban State University, Krasnodar, Russia*
- DQ-3P/26 Influence of insulator band structure on magnetoresistance of ferromagnetic-insulator-ferromagnetic contacts**
Khachaturova T.A., Belogolovskii M.A., Khachaturov A.I.
The A.A. Galkin Physical & Technical Institute, National Academy of Sciences, Donetsk, Ukraine
- DQ-3P/27 Low temperature resistance minimum in granular hole-doped cobaltites**
Chiang Yu.N.¹, Dzyuba M.O.^{1,2}, Shevchenko O.G.¹, and Khirnyi V.Ph.³
¹*B.Verkin Institute for Low Temperature Physics and Engineering, National Academy of Sciences of Ukraine, Kharkov, Ukraine;*
²*International Laboratory of High Magnetic Fields and Low Temperatures, Wroclaw, Poland*
³*State Scientific Institution "Institute for Single Crystals", National Academy of Sciences of Ukraine, Kharkov, Ukraine*
- DQ-3P/28 Transport of charge carriers in polyarylenephthalides**
Salikhov R.B.¹, Lachinov A.N.²
¹*Bashkir State Pedagogical University, Ufa, Russia*
²*Institute of Molecular and Crystal Physics URC RAS, Ufa, Russia*

15.00-19.00**Poster Session DR.****Section 7. Magnonics. Microwave Materials and Metamaterials**

Chairmen: Bazaliy Ya., Krawczyk M.

- DR-7P/1 Simple phenomenological approach for description of dynamics of a vortex core in magnetic nanodots**
Ivanov B.A.¹, Avanesyan G.G.², Khvalkovskiy A.V.², Kulagin N.E.³, Zvezdin K.A.²
¹*Institute of Magnetism NASU, Kiev, Ukraine*
²*Prokhorov General Physics Institute RAS, Moscow, Russia*
³*State Institute of Management, Moscow, Russia*
- DR-7P/2 Spin-torque microwave detector using out-of-plane magnetization precession**
Prokopenko O.V.¹, Krivorotov I.N.², Tiberkevich V.S.³, Slavin A.N.³
¹*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
²*University of California, Irvine, CA, USA*
³*Oakland University, Rochester, MI, USA*
- DR-7P/3 Noise-handling properties of a spin-torque microwave detector**
Prokopenko O.V.¹, Tiberkevich V.S.², Slavin A.N.²
¹*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
²*Oakland University, Rochester, MI, USA*
- DR-7P/4 Topology and field induced magnonic band gaps in zigzag shaped magnonic waveguides**
Dvornik M.O. and Kruglyak V.V.
School of Physics, University of Exeter, Stocker road, Exeter, United Kingdom
- DR-7P/5 Spin wave self-modulation instability in magnonic crystals**
Drozdovskii A.V., Ustinov A.B., Kalinikos B.A.
Saint-Petersburg Electrotechnical University "LETI" (ETU), Saint-Petersburg, Russia
- DR-7P/6 Exact dipole-exchange theory for spin-waves in ferroelectric-hexaferrite-dielectric layered structure. New perspectives for terahertz frequency range**
Grigorieva N.Yu., Sultanov R.A., Kalinikos B.A.
Saint-Petersburg Electrotechnical University, St. Petersburg, Russia
- DR-7P/7 Autoresonant generation of Bose-Einstein condensate of magnons in ferromagnetic film**
Kharisov A.T.¹, Kalyakin L.A.², Shamsutdinov M.A.¹
¹*Bashkir State University, Ufa, Russian Federation*
²*Institute of Mathematics with Computer Center of the Ufa Science Center of Russian Academy of Sciences, Ufa, Russian Federation*
- DR-7P/8 Thermal stability of a fine particle magnetic moment in a rotating magnetic field**
Polyakov A.Yu., Lyutyy T.V., Denisov S.I.
Sumy State University, Sumy, Ukraine
- DR-7P/9 A simple model of the anisotropic metamaterial**
Bychkov I.V., Dubrovskikh D.V., Zotov I.S., Pavlov D.A., Fediy A.A.
Chelyabinsk State University, Chelyabinsk, Russia

- DR-7P/10 Characteristics of surface waves in LHM-ferrite-semiconductor waveguides**
 Mousa H.M.¹, Abadla M.M.² and Shabat M.M.³
¹Physics Department, Al Azhar University, Gaza Strip, Palestinian Authority
²Physics Department, Al Aqsa University, Gaza Strip, Palestinian Authority
³Physics Department, Islamic University, Gaza Strip, Palestinian Authority
- DR-7P/11 TM nonlinear waveguide slab optical sensor utilizing left-handed materials**
 Taya Sofyan A.¹, El-Khozondar Hala J.², Shabat Mohammed M.¹, Mehjez Emad M.¹
¹Physics Department, Islamic University, Gaza Strip, Palestinian Authority
²Electrical Engineering Department, Islamic University, Gaza Strip, Palestinian Authority
- DR-7P/12 Reflection of electromagnetic waves from magnetic having the sinusoidal magnetic structure**
 Bychkov I.V.¹, Lamekhov S.Y.¹, Shadrin V.V.²
¹Chelyabinsk State University, Chelyabinsk, Russia
²Magnitogorsk State University, Magnitogorsk, Russia
- DR-7P/13 Angular dependencies of spin wave modes in ferromagnetic periodic structures: square antidot array versus microstrip array**
 Vysotsky S.L.¹, Khivintsev Yu.V.^{1,2}, Sakharov V.K.³, Filimonov Yu.A.¹
¹Kotel'nikov SBIRE RAS, Saratov, Russia
²Saratov State University, Saratov, Russia
³Kotel'nikov IRE RAS, Moscow, Russia
- DR-7P/14 Propagation of magnetostatic surface waves in 1D ferrite magnonic crystal with structural defect**
 Pavlov E.S.¹, Vysotsky S.L.², Filimonov Yu.A.²
¹Kotel'nikov IRE RAS, Moscow, Russia
²Kotel'nikov SBIRE RAS, Saratov, Russia
- DR-7P/15 Control of the amplitude of spin wave at transmission through the boundary of two uniaxial ferromagnets in external magnetic field**
 Gorobets Yu.I.¹, Gorobets O.Yu.², Khomenko T.A.²
¹Institute of Magnetism of NAS of Ukraine, Kiev, Ukraine
²National Technical University of Ukraine "Kiev Politechnical Institute", Kiev, Ukraine
- DR-7P/16 Effect of boundaries on spin wave spectra of planar magnonic crystals**
 Sokolovsky M.L., Krawczyk M.¹
¹Faculty of Physics, Adam Mickiewicz University, Poznac, Poland
- DR-7P/17 Propagation of spin waves in curved magnonic nanowires**
 Tkachenko V.S.¹, Kuchko A.N.¹, Dvornik M.² and Kruglyak V.V.²
¹Donetsk National University, Donetsk, Ukraine
²School of Physics, University of Exeter, UK
- DR-7P/18 Inelastic scattering of bulk spin waves in a biaxial multilayer ferromagnetic structure**
 Gorobets Yu.I.¹, Reshetnyak S.A.², Khomenko T.A.²
¹Institute of Magnetism of NAS of Ukraine, Kiev, Ukraine
²National Technical University of Ukraine "Kiev Politechnical Institute", Kiev, Ukraine

- DR-7P/19 Kapitsa problem for the magnetic memory cell based on synthetic antiferromagnetic systems**
 Dzhezherya Y.I.¹, Demishev K.O.^{1,2}, Korenivski V.N.³
¹*Institute of Magnetism, Kyiv, Ukraine*
²*National Technical University "KPI", Kyiv, Ukraine*
³*Royal Institute of Technology, Stockholm, Shvecija*
- DR-7P/20 Design of the photonic crystal demultiplexers for different wavelength diapasons**
 Bakhvalova T.N.
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- DR-7P/21 BiIG films for magnetophotonic crystals: FMR study**
 Semuk Ye.Yu.¹, Berzhansky V.N.¹, Golub V.O.², Shaposhnikov A.N.¹, Prokopov A.R.¹, Karavainikov A.V.¹
¹*V.I. Vernadsky Taurida National University, Simferopol, Ukraine*
²*Institute of Magnetism NASU& MESU, Kiev, Ukraine*
- DR-7P/22 Surface bifocal spin-wave lens**
 Reshetnyak S.A., Berezhinsky A.S.
National State University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine
- DR-7P/23 Radio-absorption of ternary magnetic composite materials on the basis of carbon nanotubes and conducting polymers**
 Pud A.A.², Pud S.A.¹, Petrychuk M.V.¹, Kovalenko V.F.¹, Morgun A.O.¹, Dzyan S.A.¹, Bessmertnaja L.G.¹
¹*Taras Shevchenko National University, Kiev, Ukraine*
²*Institute of Bioorganic Chemistry and Petrochemistry, NASU, Kiev, Ukraine*
- DR-7P/24 Reflection of electromagnetic waves from magnetic having the sinusoidal magnetic structure**
 Bychkov I.V.¹, Lamekhov S.Y.¹, Shadrin V.V.²
¹*Chelyabinsk State University, Chelyabinsk, Russia*
²*Magnitogorsk State University, Magnitogorsk, Russia*
- DR-7P/25 Composite material with low reflectivity based on an electromagnetic crystal**
 Bychkov I.V., Zotov I.S., Fediy A.A.
Chelyabinsk State University, Chelyabinsk, Russia
- DR-7P/26 Influence of carbon nanotubes on properties of heterogeneous composite with various ferrimagnetic fillers particle size**
 Serebryannikov S.V., Cheparin V.P., Smirnov D.O., Rummyantsev P.A.
Moscow Power Engineering Institute (Technical University)
- DR-7P/27 Properties of microwave absorbing covers with magnetic metal nanoparticles for microwave protection**
 Nikolaychuk G.A., Ivanov V.P., Moroz O.Y., Nakvasina E.Y., Tsvetkova E.A.
Research Institute "Ferrite-Domen", Saint Petersburg, Russia
- DR-7P/28 Study radiophysics parameters of structured magnetic composites**
 Kovaleva T.Y., Bezyazykova T.G., Kovaleva A.G.
The Bonch-Bruевич Saint-Petersburg State University of Telecommunications (GUT)

Friday, October 7

9.00-11.00**Oral Session EA.****Section 1. Fundamental Physics of Functional Materials II****Chairmen:** Zhukov A., Dunaevsky S.

- EA-1L/1 Fast magnetization switching in magnetically bistable microwires**
(Invited)
Zhukov A.^{1,2}, Blanco J.M.³, Ipatov M.¹ and Zhukova V.¹
¹*Dpto. Física de Materiales, Fac. de Química, UPV/EHU San Sebastián, Spain*
²*IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*
³*Dpto. Física Aplicada I, EUPDS, San Sebastián, Spain*
- EA-1O/1 Tight-binding description of noncollinear magnetic phases**
Dunaevsky S.M.
Petersburg Nuclear Physics Institute, Orlova Grave, Gatchina, Russia
- EA-1O/2 Strained (La,Ca)MnO₃ films at the edge of ferromagnetism: peculiar features of magnetic phase separation**
Tovstolytkin A.I.¹, Dzyublyuk V.V.¹, Podyalovskii D.I.¹, Moya X.², Israel C.², Sánchez D.², Vickers M.E.² and Mathur N.D.²
¹*Institute of Magnetism, Kyiv, Ukraine*
²*Department of Materials Science, University of Cambridge, Cambridge, UK*
- EA-1O/3 Inhomogeneous magnetic state above the Curie temperature of the manganite Pr_{1-x}Ca_xMnO₃**
Lazuta A.V.¹, Ryzhov V.A.¹, Khavronin V.P.¹, Molkanov P.L.¹, Mukovskii Ya.M.², Pestun A.E.², Privezentsev R.V.²
¹*Petersburg Nuclear Physics Institute RAS, Gatchina, St.Petersburg, Russia*
²*Moscow Steel and Alloys Institute, Moscow, Russia*
- EA-1O/4 Dynamics of solitary deflection waves on the supersonic domain wall of yttrium orthoferrite. The comparison of experimental and theoretical results**
Chetkin M.V., Kurbatova Yu.N., Shapaeva T.B.
Faculty of Physics, M.V. Lomonosov Moscow State University, Moscow, Russia
- EA-1O/5 Spectrum rearrangement as a driving force of the metal-insulator transition in impure grapheme**
Skrypnyk Yu.V.
G.V. Kurdyumov Institute of Metal Physics, National Academy of Sciences of Ukraine, Kyiv, Ukraine

- EA-10/6 Coexistence of ferromagnetism and conductivity in a mixed-valent 2D networks $[\text{Fe}_2(\text{C}_6\text{X}_2\text{O}_4)_3]^-$ (X=H, Cl, Br)**
 Ovanesyan N.S.¹, Nikitina Z.K.¹, Shilov G.V.¹, Aldoshin S.M.¹,
 Makhaev V.D.¹, Train C.², Li Y.³, Gruselle M.³
¹*Institute of Problems of Chemical Physics of Russian Academy of Sciences, Chernogolovka, RUSSIA*
²*LNCMI, France*
³*Institut Parisien de Chimie Moléculaire, France*
- EA-10/7 Anti-Invar effect in f.c.c.-Fe-Ni-C alloys**
 Nadutov V.M.¹, Kosintsev S.G.¹, Svystunov Ye.O.¹, Garamus V.M.²,
 Willumeit R.², Eckerlebe H.², Ericsson T.³, Annersten H.³
¹*G.V. Kurdyumov Institute for Metal Physics of the N.A.S. of Ukraine, Kyiv, Ukraine*
²*GKSS research center, Geeshtacht, Germany*
³*Uppsala University, Uppsala, Sweden*

11.15-13.30 Oral Session EB.

Section 5. Piezoelectric and Magnetoelectric Materials. Multiferroics

Chairmen: Ivanov V., Filippov D.A.

- EB-50/1 Ferroelectric properties of thick film of lead zirconate titanate for miniature devices**
 Tandon R.P.
Department of Physics & Astrophysics, University of Delhi, Delhi, India
- EB-50/2 New horizons of micromagnetism: magnetic domain walls and vortices as sources of electric polarization**
 Pyatakov A.P.^{1,2}, Zvezdin A.K.², Meshkov G.A., Sechin D.A., Sergeev A.S., Nikolaeva E.P., Nikolaev A.V., and Logginov A.S.
¹*M.V. Lomonosov Moscow State University, Moscow, Russia*
²*A.M. Prokhorov General Physics Institute, Moscow, Russia*
- EB-50/3 On the free energy of the flexomagnetoelectric interactions**
 Tanygin B.M.
Kyiv Taras Shevchenko National University, Radiophysics Faculty, Kyiv, Ukraine
- EB-50/4 Magnetic, magnetoelectric properties and field induced phase transitions in $\text{Mn}_{1-x}\text{Co}_x\text{WO}_4$ multiferroics (x=0.05 and 0.2)**
 Ivanov V.Yu.¹, Mukhin A.A.¹, Popov Yu.F.², Vorob'ev G.P.², Kadomtseva A.M.², Balbashov A.M.³
¹*A.M. Prokhorov General Physics Institute of the Russian Acad., Moscow, Russia*
²*M.V. Lomonosov Moscow State University, Moscow, Russia*
³*Moscow Power Engineering Institute, Moscow, Russia*

- EB-50/5 Multiferroic effects in perovskite heterostructures studied by optical second harmonic generation**
Mishina E.D., Ivanov M.S., Firsova N.Yu., Sigov A.S.
Moscow State Institute of Radioengineering, Electronics and Automation (MIREA-Technical University), Moscow, Russia
- EB-50/6 Inverse magnetoelectric effect in ferrite-piezoelectric structures**
Filippov D.A.¹, Galkina T.A.¹, Firsova T.O.¹, Laletin V.M.², Srinivasan G.³
¹*Novgorod State University, Veliky Novgorod, Russia*
²*Institute of Technical Acoustics, Vitebsk, Belarus*
³*Oakland University, Rochester, Michigan, USA*
- EB-50/7 Giant magnetocaloric effect in manganese arsenide**
Pankratov N.Yu.¹, Mitsiuk V.I.², Smarzhevskaya A.I.¹, Govor G.A.², Nikitin S.A.¹
¹*Physics Faculty, M.V. Lomonosov Moscow State University, Moscow, Russia*
²*SSPA "Scientific-Practical Materials Research Center of NAS of Belarus", Minsk, Belarus*
- EB-50/8 Phenomenon of recrystallization in thin PZT films deposited onto Pt/SiO₂/Si substrate by RF magnetron scattering**
Pronin I.P.¹, Kaptelov E.Yu.¹, Senkevich S.V.¹, Klimov V.A.¹, Sergeeva O.N.² and Pronin V.P.³
¹*Ioffe Institute, St.-Petersburg, Russia*
²*Tver State University, Tver, Russia*
³*Herzen Pedagogical University, St.-Petersburg, Russia*

9.00-14.00 Poster Session EP.

Section 10. Materials for Medical and Environmental Applications. Biosensors

Chairmen: Brysev A., Gorobets O.

- EP-10P/1 Magnetoacoustic phase conjugation for measuring of acoustic absorption coefficient of inhomogeneous media**
Brysev A.P., Bunkin V.F., Krutyansky L.M., Smagin N.V.
*Joint International Laboratory LEMAC:
Wave Research Center of A.M. Prokhorov General Physics Institute RAS,
Moscow, Russia*
- EP-10P/2 The semi-empirical research of the adsorption effect of benzene molecule on carbon nanotubes surface**
Shamina E.N.¹, Lebedev N.G.²
¹*Volgograd State Medical University, Volgograd, Russia*
²*Volgograd State University, Volgograd, Russia*

- EP-10P/3 Modification of physical and mechanical parameters of sapphire elements for medical applications in spinal discs**
Litvinov L.¹, Voloshin A.¹, Slyunin E.¹, Radchenko V.², Levshin A.², Timchenko I.²
¹*Institute for Single Crystals, STC "Institute for Single Crystals", NAS of Ukraine, Kharkiv, Ukraine*
²*Sytenko Institute of Spine and Joint Pathology, Kharkiv, Ukraine*
- EP-10P/4 Antibacterial silver-containing calcium phosphate ceramics**
Tkachenko M., Zyman Z.
V. Karazin Kharkiv National University, Kharkiv, Ukraine
- EP-10P/5 Mechanical characteristics of biphasic calcium phosphate ceramics of a powder processed through a microwave-assisted solvent-free reaction**
Goncharenko A.V., Rokhmistrov D.V., Motalo J.V., Zyman Z.Z.
Physics of Solids Department, V.N. Karazin Kharkiv National University, Kharkiv Ukraine
- EP-10P/6 Structural study of nanosized calcium-phosphate materials by use of electron spin resonance**
Rokhmistrov D.V.¹, Nikolov O.T.², Loza K.I.¹
¹*Physics of Solids Department, V.N. Karazin Kharkiv National University, Kharkiv, Ukraine*
²*Department of Biomedical and Medical Physics, V.N. Karazin Kharkiv National University, Kharkiv, Ukraine*
- EP-10P/7 Investigation of the influence of fluorinated poly(urethane urea)s as stent coatings on the morphology of the aorta of animals**
Shekera O.V.¹, Tkachenko I.M.¹, Lazarenko O.N.², Muzhev V.V.¹, Alexeeva T.A.³, Oshkaderov S.P.³, Shevchenko V.V.¹
¹*Institute for Macromolecular Chemistry NAS of Ukraine, Kyiv, Ukraine*
²*Kyiv Medical for Post Graduate Education, Ukraine, Kyiv, Ukraine*
³*G.V. Kurdyumov Institute for Metal Physics NAS of Ukraine, Kyiv, Ukraine*
- EP-10P/8 Complex gadolinium borates and phosphates - potential fluorescent biosensors for diagnosis and treatment of cancer**
Krut'ko V.A.¹, Komova M.G.¹, Popov A.V.², Ryabova A.V.²
¹*N.S. Kurnakov Institute of general and Inorganic Chemistry RAS, Moscow, Russia*
²*A.M. Prokhorov General Physics Institute RAS, Moscow, Russia*
- EP-10P/9 Enzyme-based sensor for surfactant determination**
Soldatkin O.O.¹, Kucherenko I.S.¹, Arkhypova V.M.¹, Dzyadevych S.V.^{1,2}, Soldatkin A.P.^{1,2}
¹*Laboratory of Biomolecular Electronics, Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine, Kyiv, Ukraine*
²*Institute of High Technologies, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*

- EP-10P/10 Development of new enzyme conductometric biosensor for fructose determination**
 Pyeshkova V.N.¹, Dudchenko O.Y.², Dzyadevych S.V.¹
¹*Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine, Kyiv, Ukraine*
²*National Food Industry University, Kyiv, Ukraine*
- EP-10P/11 Research of electrophoretic mobility magnetically labeled based on the yeast *C. Serevisiae* biosorbents of copper ions**
 Gorobets S.V., Karpenko Y.V.
National Technical University of Ukraine "KPI", Kiev
- EP-10P/12 Localization of a ferromagnetic ellipsoid microbead by means of rapidly oscillating magnetic field in flowing system**
 Gorobets O.Yu., Potyemkin M.M.
National Technical University of Ukraine "Kiev Polytechnic Institute", Kyiv, Ukraine
- EP-10P/13 Influence of magnetostatic fields of the ferromagnetic substrate on the electrodeposition of Ni dendritic structures**
 Gorobets S.V., Gorobets O.Yu., Dvoynenko O.K., Mykhailenko N.A.
National Technical University of Ukraine "Kiev Polytechnic Institute"
- EP-10P/14 Influence of domain structure on the corrosion surface for ferromagnetic cylinder**
 Ilchenko M.Yu., Gorobets S.V., Gorobets O.Yu., Dvoynenko O.K.
National Technical University of Ukraine "Kiev Polytechnic Institute"
- EP-10P/15 Peculiarities of the formation of solution phases with elevated content of paramagnetic ions at the metal-electrolyte boundary in gradient magnetic field**
 Gorobets Yu.I.¹, Gorobets O.Yu.², Legenkiy Yu.A.³, Pimenov Yu.N.³
¹*Institute of Magnetism NAS of Ukraine, Kiev, Ukraine;*
²*National Technical University of Ukraine "KPI", Kiev, Ukraine;*
³*Donetsk National University, Donetsk, Ukraine*
- EP-10P/16 Implants of inorganic genesis as a source of exogenous inflows of microelements in organism**
 Buryanov A.A.¹, Oshkadyorov S.P.², Strebkova O.A.²
¹*A.A. Bogomolets National Medical University*
²*G.V. Kurdyumov Institute for Metal Physics*
- EP-10P/17 The method of biomimicry in order to solve the problems of implantology**
 Aleksyeyeva T.A.¹, Buryanov A.A.², Yermolenko I.S.³, Lazarenko O.I.⁴, Oshkadyorov S.P.¹
¹*G.V. Kurdyumov Institute for Metal Physics*
²*A.A. Bogomolets National Medical University*
³*Center for Metabolic Biology and School of Life Sciences Arizona State University*
⁴*P.L. Shupik National Medical Academy of Post Graduate Education*

- EP-10P/18 Galvanosis phenomenon using cast dentures for prosthetic dentistry**
Beda V.I.¹, Gorban V.¹, Oshkadyorov S.P.², Pavlenko A.V.¹,
Severina S.N.²
¹*P.L. Shupik National Medical Academy of Post Graduate Education*
²*G.V. Kurdyumov Institute for Metal Physics*
- EP-10P/19 Magnetically responsive alginate microparticles**
Davidovich I.¹, Marynchenko L.², Golub L.¹, Cherednik O.², Burban A.¹
¹*National University "Kiev-Mohyla Academy", Kyiv, Ukraine*
²*National Technical University of Ukraine "Kyiv Polytechnical Institute",
Kyiv, Ukraine*
- EP-10P/20 Adsorption of polymer chains between impenetrable interfaces**
Gerasimchuk I.V.¹ and Gerasimchuk V.S.²
¹*Institute of Magnetism, National Academy of Sciences of Ukraine and
Ministry of Education and Science of Ukraine, Kyiv, Ukraine*
²*National Technical University of Ukraine "Kyiv Polytechnic Institute",
Kyiv, Ukraine*
- EP-10P/21 Adsorption of polymer chains at two penetrable interfaces in a constant magnetic field**
Gerasimchuk I.V.¹, Gerasimchuk V.S.², Gorobets Yu.I.¹
¹*Institute of Magnetism, National Academy of Sciences of Ukraine and
Ministry of Education and Science of Ukraine, Kyiv, Ukraine*
²*National Technical University of Ukraine "Kyiv Polytechnic Institute",
Kyiv, Ukraine*
- EP-10P/22 X-rays diffraction analysis of Pb-doped biohydroxyapatite**
Maksimova E.M.¹, Nauhatsky I.A.¹, Strugatsky M.B.¹, Mostovoy S.O.²,
Pikaluk V.S.²
¹*Tavrida national university, Simferopol, Ukraine*
²*Crimea medical university, Simferopol, Ukraine*
- EP-10P/23 Treatment of the waste sulfur acidic solution obtained in the standard process of copper electrolysis**
Stevanović J.¹, Stajčić A.¹, Marković R.², Nedeljković D.¹, Grujić A.¹,
Stajić-Trošić J.¹
¹*Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*
²*MMI, Mining and Metallurgy Institute Bor, Bor, Serbia*
- EP-10P/24 The peculiarities of the optical absorption, luminescence and photostability of the biopolymers**
Kudrya V.Yu., Yashchuk V.M.
*Faculty of Physics, Kyiv National Taras Shevchenko University, Kyiv,
Ukraine*

- EP-10P/25 The spectral properties of functional Pi-electron containing macromolecular compounds for photonics application**
 Yashchuk V.M.¹, Grazulevicius J.V.², Kushnir K.M.¹, Kudrya V.Yu.¹, Naumenko A.P.¹, Kosach V.V.¹, Simokaitiene J.²
¹*Faculty of Physics, Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
²*Department of Organic Technology, Kaunas University of Technology, Radvilenu Plentas, Kaunas, Lithuania*
- EP-10P/26 The spectral manifestations of the interaction of polynucleotides with proteins**
 Levchenko S.M.¹, Kudrya V.Yu.¹, Yashchuk V.M.¹, Tkachuk Z.Yu.², Mel'nik V.I.³, Vorob'yov V.P.³, Naumenko A.P.¹
¹*Faculty of Physics, Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
²*Institute of Molecular Biology and Genetics of NASU, Kyiv, Ukraine*
³*Institute of Physics of NASU, Kyiv, Ukraine*
- EP-10P/27 The spectrophotometric investigations of the fibrillar biopolymers**
 Makarenko O.V., Svechnikov O.S., Kohut Ya.P.
National Taras Shevchenko University of Kyiv, Department of Physics
- EP-10P/28 The polymer sensor with optical response on some toxic molecules presence in water**
 Yashchuk V.M.¹, Kudrya V.Yu.¹, Zheltonozhskaya T.B.², Yevtushenko N.V.¹, Naumenko A.P.¹, Lebedyeva I.V.¹
¹*Faculty of Physics, Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
- EP-10P/29 Porous silicon photonic crystals: sensor and environmental applications**
 Efimova A.I., Golovan L.A., Timoshenko V.Yu.
M.V. Lomonosov Moscow State University, Moscow, Russia
- EP-10P/30 The using of polymer materials in gas sensors**
 Shirin-zadeh A.A., Alieva Kh.S., Murshudli M.M.
National Aerospace Agency, Baku, Azerbaijan

9.00-14.00 Poster Session ELP.

Workshop LOD & Section 8. Luminescent and Radiation Sensing Materials

Chairmen: Nedilko S., Boyko V.

- ELP-P/1 Influence of the crystal structure on the luminescent properties of Eu²⁺ ions in MLi₂SiO₄ (M = Ca, Sr, Ba)**
 Levshov S.M.¹, Berezovskaya I.V.¹, Efryushina N.P.¹, Vdovenko S.I.², Kovalevskaya I.P.¹, Dotsenko V.P.¹
¹*A.V. Bogatsky Physico-Chemical Institute, National Academy of Sciences, Odessa, Ukraine*
²*Institute of bioorganical chemistry and petrochemistry, National Academy of Sciences, Kiev, Ukraine*

- ELP-P/2 Synthesis, structure and luminescent properties of $\text{La}_{1-x}\text{R}_x\text{VO}_4$ ($\text{R} = \text{Pr}, \text{Sm}, \text{Eu}$) solid solutions**
 Scherbatskii V.¹, Nedilko S.G.¹, Nedilko S.A.¹, Nediello I.¹, Sheludko V.²
¹Taras Shevchenko National University of Kyiv, Kyiv, Ukraine
²Glukhiv National Pedagogical University, Glukhiv, Ukraine
- ELP-P/3 Red phosphors based on Eu-doped $\text{BaO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses**
 Egorysheva A.V., Volodin V.D., Skorikov V.M.
 Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
- ELP-P/4 Luminescent properties of europium coordination compounds with different carbacylphosphortriamide ligands**
 Litsis Olena, Ovchynnikov Vladimir, Sliva Tatiana, Scherbatskii Vasyl, Nedilko Sergiy, Amirkhanov Vladimir
 Taras Shevchenko National University of Kyiv, Kyiv, Ukraine
- ELP-P/5 Luminescence properties of Eu – complexes with phosphorylated sulfonamide type ligands**
 Pritula A.Yu., Trush V.A., Sliva T.Yu., Nedilko S.G., Scherbatskii V.P.
 Kiev National Taras Shevchenko University, Department of Chemistry, Kyiv, Ukraine
- ELP-P/6 Spectroscopic studies and electronic band structure calculations of some double molybdate crystals**
 Chornii V., Hizhnyi Yu., Nedilko S.
 Kyiv National Taras Shevchenko University, Kyiv, Ukraine
- ELP-P/7 Spectroscopic characterization of zinc tungstate single crystals doped with lithium and fluorine**
 Krutyak N.¹, Mikhailin V.V.^{1,2}, Spassky D.A.², Nagornaya L.L.³, Tupitsyna I.A.³, Dubovik A.M.³
¹Synchrotron Radiation Laboratory, Physics Faculty, Moscow State University, Moscow, Russia
²Skobeltsyn Institute of Nuclear Physics, Moscow State University, Moscow, Russia
³Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine
- ELP-P/8 Influence of Cr and Ni impurities on the electronic structure and luminescence characteristics of ZnWO_4 and CdWO_4 crystals**
 Nikolaenko T., Hizhnyi Yu., Nedilko S.
 Kyiv National Taras Shevchenko University, Kyiv, Ukraine
- ELP-P/9 Cathodoluminescence of nitrated sapphire**
 Nizhankovskyi S.V.¹, Sidelnikova N.S.¹, Zorenko Yu.V.^{2,3}, Savchyn V.P.³, Kaltaev Kh. Sh.-ogly¹, Krukhmalov A.A.¹, Dan`ko A.Ya.¹, Budnikov A.T.¹
¹Institute for Single Crystals of NAS Ukraine, Kharkiv, Ukraine
²Institute of Physics, Kazimierz Wielki University in Bydgoszcz, Bydgoszcz, Poland
³Electronics Department of Ivan Franko National University of Lviv, Lviv, Ukraine

- ELP-P/10 Dependence of scintillation characteristics of the detectors on the base of polycrystalline stilbene on initial grain size**
Gorbacheva T.E., Lazarev I.V., Panikarskaya V.D., Galunov N.Z.
Institute for scintillation materials NAS of Ukraine, Kharkov, Ukraine
- ELP-P/11 Intrinsic and extrinsic luminescence of LaPO₄ nanoparticles upon UV and VUV excitation**
Voloshinovskij A.¹, Vistovsky V.¹, Malyy T.¹, Getkin A.², Shapoval O.³, Zaichenko A.³, Mitina N.³
¹*Ivan Franko National University, Lviv, Ukraine*
²*Institute for Scintillation Materials, NAS Ukraine, Kharkiv, Ukraine*
³*National University "Lvivska politekhnica", Lviv, Ukraine*
- ELP-P/12 Formation and study of nanostructured ceramic (Lu_{1-x}Eu_x)₂O₃ films**
Bezkravnyj A.S., Babayevskaya N.V., Mateychenko P.V., Tolmachev A.V.
Institute for Single Crystal NAS of Ukraine
- ELP-P/13 Structural and luminescent characteristics of Y₂O₃:Nd³⁺ powders obtained by different precipitation routes**
Dulina N.A.¹, Kosyanov D.Yu.¹, Matveevskaya N.A.¹, Pazura Yu.V.¹, Tolmachev A.V.¹, Yavetskiy R.P.¹, Kopylov Yu.L.², Kravchenko V.B.²
¹*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*
²*Institute of Radioengineering and Electronics named after V.A. Kotelnikov of RAS, Fryazino branch, Fryazino, Russia*
- ELP-P/14 Peculiarities of Yb³⁺ luminescence in LPE grown Y₃Al₅O₁₂ epitaxial films**
Luchechko A.P.¹, Syvorotka I.I.², Ubizskii S.B.³, Zhakharko Ya.M.¹, Syvorotka I.M.²
¹*Faculty of Electronics, Ivan Franko National University of Lviv, Lviv, Ukraine*
²*Scientific Research Company "Carat", Lviv, Ukraine*
³*Lviv Polytechnic National University, Lviv, Ukraine*
- ELP-P/15 Photoluminescence of anatase TiO₂ films with ZrO₂, SiO₂ and noble metals**
Busko T.O.¹, Kulish M.P.¹, Dmytrenko O.P.¹, Pryhodko O.O.¹, Vityuk N.V.², Eremenko A.M.², Strelchuk V.V.³, Nikolenko A.M.³
¹*Taras Shevchenko National University of Kiev, Kiev, Ukraine*
²*Chuiko Institute of Surface Chemistry of NAS of Ukraine, Kiev, Ukraine*
³*V. Lashkaryov Institute of Semiconductor Physic of NAS of Ukraine, Kiev, Ukraine*
- ELP-P/16 Luminescence of Y₃Al₅O₁₂ nanoceramics**
Doroshenko A.G.¹, Petrusha I.A.², Tolmachev A.V.¹, Turkevich V.Z.², Voznyak T.³, Yavetskiy R.P.¹, Zorenko Yu.V.^{3,4}
¹*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*
²*Institute for Superhard Materials, NAS of Ukraine, Kyiv, Ukraine*
³*Institute of Physics Kazimierz Wielki University of Bydgoszcz, Bydgoszcz, Poland*
⁴*Electronics Department Ivan Franko National University of Lviv, Lviv, Ukraine*

- ELP-P/17 VUV excited luminescence of micropowdered Al₂O₃**
 Revo S.¹, Nedilko S.¹, Shcherbatskyi V.¹, Mogilevsky R.²,
 Sharafutdinova L.², Mittl S.², Boyko V.³, and Sheludko V.⁴
¹*National Taras Shevchenko University of Kyiv, Kyiv, Ukraine*
²*Emerging Material Technologies, Inc., Littlefield Court, Lake Forest, IL, USA*
³*National University of Life and Environmental sciences, Kyiv, Ukraine*
⁴*Glukhiv State Pedagogical University, Glukhiv, Ukraine*
- ELP-P/18 Effect of water on the luminescence of the Eu³⁺ containing compounds with carbacylamidophosphate ligands**
 Kozak D.¹, Nedilko S.¹, Sherbatskii V.¹, Amirkhanov V.¹, Litsis O.¹,
 Nediello I.¹, Ovchynnikov V.¹, Slyva T.¹, Gamaleia M.², Klapshina L.³
¹*National Taras Shevchenko University of Kyiv, Kyiv, Ukraine*
²*R. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine*
³*G.A. Razuvaev Institute of Organometallic Chemistry, Nizhny Novgorod, Russian Federation*
- ELP-P/19 "Relativistic" approximation in the dynamics of the quasi-particles**
 Suprun A.D., Shmeleva L.V.
Taras Shevchenko National University of Kyiv, Faculty of Physics, Kyiv, Ukraine

15.00-17.45 Oral Session EC.

Section 10. Materials for Medical and Environmental Applications. Biosensors

Chairmen: Bystrov V., Gorobets S.

- EC-100/1 Self-organizaton of magnetite nanoparticles in cells**
 Chekchun V.F.¹, Gorobets S.V.², Gorobets O.Yu.², Demjanenko I.V.²,
 Nikolaenko R.N.³
¹*R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology NAS of Ukraine, Kiev, Ukraine*
²*National technical university of Ukraine "KPI", Kiev, Ukraine*
³*University of Missouri-Kansas City, USA*
- EC-100/2 Cytotoxicity of magnetite nanoparticles at interaction with the cell culture**
 Kiroshka V.V.¹, Samchenko I.I.¹, Bondarenko T.P.¹, Nadutov V.M.²,
 Voynash V.Z.², Perekos A.E.²
¹*Institute for Problems of Cryobiology and Cryomedicine of the National Academy of Sciences of Ukraine, Kharkov*
²*G.V. Kurdyumov Institute for Metal Physics of N.A.S. of Ukraine, Kiev*

- EC-100/3 Peptide nanotubes computational modeling and properties at the nanoscale**
 Bystrov V.S.^{1,2}, Bdikin I.², Bystrova A.V.³, Heredia A.², Kholkin A.L.²
¹*Institute of Mathematical Problems of Biology RAS, Pushchino, Russia*
²*Dept. Cer. & Glass Eng. & CICECO, University of Aveiro, Aveiro, Portugal*
³*Institute of Theoretical and Experimental Biophysics RAS, Pushchino, Russia*
- EC-100/4 Modeling of hydroxyapatite nanoparticles, apatites and impactites**
 Bystrov V.S.^{1,2}, Dekhtyar Yu.D.³, Bystrova V.V.⁴, Bdikin I.², Costa E.², Almeida M.²
¹*Institute of Mathematical Problems of Biology RAS, Pushchino, Russia*
²*Dept. Cer. & Glass Eng. & CICECO, University of Aveiro, Aveiro, Portugal*
³*Inst. of Biomedical Eng. & Nanotechnology, Riga Technical University, Riga, Latvia*
⁴*Faculties of Geography & Geology, Moscow State University, Moscow, Russia*
- EC-100/5 Colloid-chemical nanoprocesses of oxyhydrate systems for medical and environmental applications**
 Sucharev Yuri, Prolubnikova Tatiana, Lebedeva Irina
Chelyabinsk State University, Chelyabinsk, Russia
- EC-100/6 Nanocomposites containing silica-coated gold-silver nanocages and Yb-hematoporphyrin: multifunctional capability of IR-luminescence detection, photosensitization, and photothermolysis**
 Khlebtsov B.N.¹, Panfilova E.V.¹, Khanadeev V.A.¹, Terentyuk G.S.² and Khlebtsov N.G.^{1,2}
¹*Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Academy of Sciences, Saratov, Russia*
²*Saratov State University, Saratov, Russia*
- EC-100/7 Development of a new highly conductive and thermomechanically stable membrane based on polyimide/ionic liquid for fuel cell application**
 Fatyeyeva K.¹, Rogalsky S.P.², Tarasyuk O.P.², Marais S.¹
¹*Laboratoire "Polymères, Biopolymères, Surfaces", Université de Rouen, Mont-Saint-Aignan Cedex, France*
²*Institute of Bioorganic Chemistry and Petrochemistry, National Academy of Sciences of Ukraine, Kyiv, Ukraine*
- EC-100/8 Quasi-equilibrium heterogeneous states of electrolyte at steel ball etching in a magnetic field**
 Gorobets O.Yu.¹, Bondar I.A.¹, Legenkiy Yu.A.²
¹*National technical university of Ukraine "KPI", Kiev, Ukraine*
²*Donetsk national university of Ukraine, Donetsk, Ukraine*

Workshop LOD & Section 8. Luminescent and Radiation Sensing Materials II

Chairmen: Zorenko Yu., Suchocki Yu.

- EL.1-L/1 Luminescent materials based on the single crystalline films of oxide compounds**
 Zorenko Yu.
¹*Institute of Physics, Kazimierz Wielki University in Bydgoszcz, Bydgoszcz, Poland*
²*Electronics Department of Ivan Franko National University of Lviv, Lviv, Ukraine*
- EL.1-O/1 High pressure spectroscopy and structural studies of neodymium doped GGG crystals**
 Durygin A.¹, Paszkowicz W.², Werner-Malento E.², Buczko R.², Kaminska A.², Drozd V.¹, Saxena S.¹, Brik M.⁴, Suchocki A.^{2,3}
¹*CeSMEC, Florida International University, University Park, Miami, FL, USA*
²*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*
³*Institute of Physics, University of Bydgoszcz, Weysenhoffa, Bydgoszcz, Poland*
⁴*Institute of Physics, University of Tartu, Riia, Tartu, Estonia*
- EL.1-O/2 Czochralski and flux growth of rare-earth disilicates for scintillation applications**
 Gerasymov I., Sidletskiy O., Voloshina O., Neicheva S., Katrunov K., Grinyov B.
Institute for Scintillation Materials NASU, Kharkiv, Ukraine
- EL.1-O/3 Intrinsic luminescence and electronic structure of $KZr_2(PO_4)_3$, ZrP_2O_7 and $K_2BiZr(PO_4)_3$ phosphate crystals**
 Chornii V.¹, Hizhnyi Yu.¹, Nedilko S.¹, Zatovskyi I.¹, Slobodyanik M.¹, Terebilenko K.¹, Boyko V.², Sheludko V.³
¹*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
²*National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine*
³*Glukhiv State Pedagogical University, Glukhiv, Ukraine*
- EL.1-O/4 Growth and scintillation properties of crystals based on gadolinium and yttrium orthovanadate**
 Voloshina O.V.¹, Baumer V.N.², Bondar V.G.¹, Kurtsev D.A.¹, Gorbacheva T.E.¹, Zenya I.M.¹, Zhukov A.V.¹, Sidletskiy O.Ts.¹
¹*Institute for scintillation materials NAS of Ukraine, Kharkov, Ukraine*
²*SSI «Institute for single crystals» NAS of Ukraine, Kharkov, Ukraine*
- EL.1-O/5 Luminescence of titanium perovskite - like compounds doped with RE ions**
 Nedilko S., Titov Yu.
National Taras Shevchenko University of Kyiv, Kyiv, Ukraine, Kyiv, Ukraine

16.45-18.00 Oral Session EL.2.**Workshop LOD & Section 8. Luminescent and Radiation Sensing Materials II**

Chairmen: Yavetskiy R., Spassky D.

EL.2-L/1 Rare earth doped - Si based nanostructures for photonic and photovoltaic applications

Gourbilleau F.¹, Debieu O.¹, Liang C.-H.¹, An Y.-T.¹, Khomenkova L.², Labbé C.¹, Cardin J.¹, Podhorodecki A.³, Dufour C.¹

¹*CIMAP, UMR CNRS/CEA/ENSICAEN/UCBN, Cedex, France*

²*V. Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine*

³*Institute of Physics, Wroclaw University of Technology, Wroclaw, Poland*

EL.2-O/1 Comparative analysis of luminescent properties of nano- and macrosized phosphors under synchrotron radiation

Shirmane L.¹, Kotlov A.², Pankratov V.¹

¹*Institute of Solid State Physics, University of Latvia, Riga, Latvia*

²*HASYLAB at DESY, Hamburg, Germany*

EL.2-O/2 Fabrication and characterization of Y₂O₃:Eu³⁺ nanostructured ceramics

Yavetskiy R.P.¹, Baumer V.N.¹, Tolmachev A.V.¹, Petrusha I.A.², Turkevich V.Z.², Danylenko M.I.³, Ogorodnikov I.N.⁴

¹*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*

²*Institute for Superhard Materials, NAS of Ukraine, Kyiv, Ukraine*

³*Institute for Problems of Materials Sciences, NAS of Ukraine, Kyiv, Ukraine*

⁴*Ural Federal University, Ekaterinburg, Russia*

EL.2-O/3 Microwave synthesis of nanocrystalline zink tungstate

Yakubovskaya A.G.¹, Tupitsyna I.A., Nagornaya L.L.¹, Sofronov D.S.², Malyukin Yu.V.¹, Masalov A.A.¹, Vovk O.M.², Baumer V.N.²

¹*Institute of scintillation materials, NAS of Ukraine, Kharkov, Ukraine*

²*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*

EL.2-O/4 Luminescence of doped with transition ions ABP₂O₇ (A, B - MI, MII, MIII metals) phosphates

Boyko V.¹, Nedilko S.²

¹*National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine*

²*National Taras Shevchenko University of Kyiv, Ukraine, Kyiv, Ukraine*

15.00-18.00 Poster Session EQ.**Section 1. Fundamental Physics of Functional Materials II**

Chairmen: Pashkevich Yu., Vakhitov R.

EQ-1P/1 Microscopic model of pressure induced spin-crossover: comparison with experiment

Christov A.V., Kuznetsova V.V., Shelest V.V., Levchenko G.G.

Donetsk Institute for Physics and Engineering of NAS of Ukraine, Donetsk, Ukraine

- EQ-1P/2 General model of superconducting triplet spin valve F2F1S**
 Deminov R.G.¹, Tagirov L.R.^{1,2}, Nedopekin O.V.¹, Fominov Ya.V.³,
 Karminskaya T.Yu.⁴, Kupriyanov M.Yu.⁴, Golubov A.A.⁵
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Fedorov S.A.	CP-4P/3	Gomonay H.V....	DQ-3P/1, CQ-5P/6, AC-1O/1
Fedyanin A.A.....	CP-4P/10, CP-4P/9	Goncharenko A.V.	EP-10P/5
Feldman E.P.	DP-9P/10	González J.M.	BC-7O/6
Ferenchuk D.L.....	DP-9P/5	Gorbacheva T.E.	EL 1-O/4, ELP-P/10
Fert A.	BB-7L/1, AA-L2	Gorban V.....	EP-10P/18
Fetisov Y.K....	CQ-5P/11, CQ-5P/10, CQ-5P/8	Gorbovanov A.I.	EQ-1P/20
Filatov A.V.....	DQ-3P/12	Gorelikov G.A.....	BR-1P/23
Filimonov D.S.....	EQ-1P/23	Gornostaeva O.....	EQ-1P/13
Filimonov Yu.A.....	DR-7P/14, DR-7P/13, DQ-3P/22, DQ-3P/20	Gorobets O.Yu.....	EC-10O/8, EC-10O/1, EP-10P/15, EP-10P/14, EP-10P/13, EP-10P/12, DR-7P/15
Filippov B.N....	BQ-2P/13, BQ-2P/12, BQ-2P/1	Gorobets S.V.....	EC-10O/1, EP-10P/14, EP-10P/13, EP-10P/11
Filippov D.A....	EB-5O/6, CQ-5P/14, CQ-5P/13	Gorobets Yu.I.....	EP-10P/21, EP-10P/15, DR-7P/18, DR-7P/15
Firsova N.Yu.	EB-5O/5	Gorobets Yu.N.....	DL 1-O/4
Firsova T.O.	EB-5O/6, CQ-5P/13	Gourbilleau F.....	EL 2-L/1, DC-9L/5
Fominov Ya.V.....	EQ-1P/2		
Fridman Yu.A.....	BR-1P/24, BR-1P/23, BR-1P/22		

Govor G.A.	EB-5O/7	Ivanov B.A.	DR-7P/1, DA-4O/2, BR-1P/28, BR-1P/4, BR-1P/3, BC-7O/5, BA-L3, BA-L2
Grabovskyy Yu.E.	DP-9P/7	Ivanov M.S.	EB-5O/5
Granovskii A.B.	CP-4P/24	Ivanov V.	DL 2-O/5
Grazulevicius J.V.	EP-10P/25	Ivanov V.P.	DR-7P/27
Gribanov I.F.	CQ-5P/17	Ivanov V.Yu.	EB-5O/4
Gribkov B.A.	DC-9O/1	Ivaschuk L.I.	DC-9O/2
Grigorieva N.Yu.	DR-7P/6	Ivasishin O.M.	BR-1P/32
Grinberg M.	DL 1-L/1	Ivleva L.I.	DL 2-O/1
Grinyov B.	EL 1-O/2		
Grollier J.	BB-7L/3, BB-7L/1, AA-L2	K	
Grujić A.	EP-10P/23	Käämbre T.	DL 2-O/5
Gruselle M.	EA-1O/6	Kadomtseva A.M.	EB-5O/4
Gryshchuk A.M.	BR-1P/10	Kadyrbaev A.R.	DP-9P/25
Gubarev A.A.	EQ-1P/9	Kainarbai A.	CP-4P/25
Gubov O.M.	DP-9P/36	Kakazei G.N.	CB-3O/1, BC-7O/2
Gudim I.A.	DA-4O/6, CP-4P/13	Kalinikos B.A.	DR-7P/6, DR-7P/5
Gufan Yu.M.	BR-1P/18, BR-1P/17	Kalinin Yu.E.	DQ-3P/25
Gumennyk K.V.	DP-9P/10, CP-4P/3	Kalita V.M.	CB-3O/3, BR-1P/2
Gumerov A.M.	BR-1P/5, BQ-2P/3	Kalkuta S.A.	BR-1P/33
Gusakova L.G.	CQ-5P/9	Kalnysh T.V.	BQ-2P/21
Gusev A.	EQ-1P/17, EQ-1P/16, DP-9P/1, AC-1L/2	Kalsin A.M.	CP-4P/15
Gusev S.A.	DC-9O/1	Kaltaev Kh. Sh.-ogly	ELP-P/9
Guslienکو K.	BC-7O/6, BB-7L/4	Kalyakin L.A.	DR-7P/7
Gutowska M.U.	BR-1P/31	Kamenev V.I.	DQ-3P/23
		Kaminska A.	EL 1-O/1
H		Kandyba V.O.	DP-9P/21
Hadzaman I.V.	DP-9P/13	Kaptelov E.Yu.	EB-5O/8
Hasanov T.	DP-9P/34	Karabutov A.A.	BP-6P/20
Hasnip P.J.	DC-9O/4	Kara-Murza S.V.	BR-1P/19
Helgesen G.	BQ-2P/27	Karavainikov A.V.	DR-7P/21, CP-4P/14, CP-4P/9, CP-4P/6, CP-4P/5
Hellsvik J.	BA-L3	Karshivskyy V.L.	EQ-1P/28, DP-9P/14
Heo Young-Woo	DC-9O/6	Karminskaya T.Yu.	EQ-1P/2
Heredia A.	EC-10O/3	Karpenko Y.V.	EP-10P/11
Hillebrands B.	BC-7O/2	Kartashev A.	BR-1P/30
Hizhnyi Yu.	EL 1-O/3, ELP-P/8, ELP-P/6, DL 2-O/2, DL 2-O/1	Kasyanov A.I.	EQ-1P/31
Hoffman J.-U.	CA-6O/1	Katona G.L.	DQ-3P/24
Hoffmann S.	BR-1P/11	Katrunov K.	EL 1-O/2, DL 1-O/6
		Katsnelson M.I.	BA-L3
I		Kaul A.	CP-4P/24
Ibarra M.R.	CB-3O/1	Keller L.	BR-1P/30
Iermolenko V.N.	BP-6P/7, BP-6P/3	Khachaturov A.I.	DQ-3P/26, DQ-3P/8
Ignat'eva N.I.	CB-3O/4	Khachaturova T.A.	DQ-3P/26, DQ-3P/8
Ignatchenko V.A.	BA-L1	Khanadeev V.A.	EC-10O/6
Ignatenko O.V.	DQ-3P/23	Kharchenko M.F.	DQ-3P/13, CP-4P/5, BR-1P/31
Iida R.	DA-4O/2	Kharchenko Yu.	CP-4P/5, BR-1P/31
Il'yashenko E.I.	BQ-2P/27	Kharisov A.T.	DR-7P/7
Ilichenko M.Yu.	EP-10P/14	Khasanov R.	AB-L1
Ilyin N.	CQ-5P/3	Khavronin V.P.	EA-1O/3
Ipatov M.	EA-1L/1	Khirnyi V.Ph.	DQ-3P/27
Irzhak A.	BP-6P/10	Khivintsev Yu.V.	DR-7P/13, DQ-3P/20
Isaenko L.I.	DL 1-O/5	Khlebtsov B.N.	EC-10O/6
Ishchuk V.M.	CQ-5P/15, CQ-5P/9	Khlebtsov N.G.	EC-10O/6
Israel C.	EA-1O/2	Khokhlov V.A.	CQ-5P/5
Ivanchenko I.	EQ-1P/11	Kholevchuk V.V.	DC-9O/4
Ivanenko E.A.	DP-9P/4	Kholin D.I.	DQ-3P/7
Ivanov A.B.	BR-1P/24		

Kholkin A.L.	EC-100/3	Korniienko Ie.	CQ-5P/6
Khomenko T.A.	DR-7P/18, DR-7P/15	Korostil A.M.	CP-4P/2
Khomenkova L.	EL.2-L/1, DC-9L/5	Kortov V.S.	DL.2-O/3
Khovaylo V.V.	CA-6O/2, BP-6P/10, BP-6P/1	Kosach V.V.	EP-10P/25
Khvalkovskiy A.V.	DR-7P/1, BB-7L/1, AA-L2	Kosinova A.V.	DP-9P/23
Khymyn R.S.	BR-1P/4	Kosintsev S.G.	EA-1O/7
Kidalov V.V.	DP-9P/37	Kosmachev O.A.	BR-1P/24, BR-1P/22
Kidwai O.	BC-7O/8	Kosmyna M.B.	DL.1-O/4
Kikas A.	DL.2-O/5	Kosobudskii I.D.	DP-9P/11
Kim Jeong-Joo	DC-9O/6, DA-4O/7	Kostyrya S.A.	DC-9O/7
Kimel A.V.	BA-L3	Kosyanov D.Yu.	ELP-P/13
Kiparisov S.Ya.	DQ-3P/10	Kotenko I.E.	DC-9O/4
Kireev V.E.	BR-1P/4	Kotlov A.	EL.2-O/1
Kirilash A.I.	DP-9P/37	Kotov V.A.	CQ-5P/2, CP-4P/14
Kirillov A.K.	EQ-1P/29	Kovalenko V.F.	DR-7P/23, BQ-2P/14
Kirillov S.A.	BQ-2P/30	Kovaleva A.G.	DR-7P/28
Kirilyuk A.I.	BA-L3	Kovaleva T.Y.	DR-7P/28
Kirm M.	DL.2-O/5	Kovalevskaya I.P.	ELP-P/1
Kiroshka V.V.	EC-100/2	Kozak D.	ELP-P/18
Kiryana I.M.	DC-9O/2	Kozhukhar P.V.	CP-4P/18
Kisel N.G.	CQ-5P/9, BR-1P/16	Kozlova L.E.	BP-6P/7
Kitaev V.V.	BR-1P/17	Kraetschmer W.	CQ-5P/19
Klapshina L.	ELP-P/18	Krasheninnikov A.V.	BB-7L/1
Klauss H.-H.	AB-L1	Krasnyuk I.V.	EQ-1P/5
Klein O.	BB-7L/3, AA-L2	Kravchenko V.B.	ELP-P/13
Klevets Ph.N.	BR-1P/23, BR-1P/22	Kravchenko Z.F.	DQ-3P/23, BR-1P/21
Kliava J.	DC-9L/3	Kravchuk V.P.	BC-7O/3
Klimov A.A.	CP-4P/17, BP-6P/14	Krawczyk M.	DR-7P/16, BC-7O/7, BC-7L/3
Klimov A.Yu.	DP-9P/43	Kreines N.M.	DQ-3P/7
Klimov V.A.	EB-5O/8	Kremers Christian	DA-4L/1
Kłos J.W.	BC-7O/7	Krivenko S.A.	BR-1P/26
Klym H.I.	DP-9P/13	Krivorotov I.N.	DR-7P/2
Klymuk O.S.	BR-1P/9	Krivoruchko V.N.	DQ-3P/3, DP-9P/27, BR-1P/20, BR-1P/7, AC-1L/1
Klyndyuk A.I.	CQ-5P/20	Kruglyak V.V.	DR-7P/17, DR-7P/4, BC-7O/5, BC-7O/4, BC-7L/3
Kobeleva L.I.	BP-6P/20	Krukhmalov A.A.	ELP-P/9
Koblischka M.R.	DC-9L/4	Krupa M.M.	DQ-3P/4, DP-9P/12, CP-4P/2, BP-6P/5
Kochkubey A.	BQ-2P/20	Krut'ko V.A.	EP-10P/8
Kohut Ya.P.	EP-10P/27	Krutyak N.	ELP-P/7
Kokorin V.V.	DQ-3P/15, CA-6L/1, BP-6P/7, BP-6P/4	Krutyansky L.	EP-10P/1, BP-6P/12, BP-6P/11
Kolachevsky N.	BR-1P/1	Kryshchuk T.V.	DP-9P/21
Koledov V.	BP-6P/10	Kryzhanovska O.S.	DP-9P/16
Kolenov I.V.	DA-4O/8	Kubota H.	BB-7L/1
Kolomiets O.V.	DQ-3P/15	Kucherenko I.S.	EP-10P/9
Kolyadina E.Yu.	DC-9O/4	Kuchko A.N.	DR-7P/17
Kolybaeva M.I.	DP-9P/23	Kudrya V.Yu.	EP-10P/28, EP-10P/26, EP-10P/25, EP-10P/24
Komarov A.I.	DC-9O/2	Kudryavtsev Y.V.	BP-6P/7, BP-6P/3
Komarov V.P.	BR-1P/16	Kukushkin S.A.	CQ-5P/16
Komarova V.I.	DC-9O/2	Kulagin D.V.	CQ-5P/2
Komova M.G.	EP-10P/8	Kulagin N.E.	DR-7P/1
Konchits A.A.	EQ-1P/29	Kulchitsky N.A.	DP-9P/32
Kononenko V.V.	BR-1P/20	Kulish M.P.	ELP-P/15, DP-9P/15, DP-9P/7, BP-6P/22
Konoplyuk S.M.	DQ-3P/15, BP-6P/7, BP-6P/4	Kunitsyn R.V.	DQ-3P/1
Konoto M.	BB-7L/1	Kupriyanov M.Yu.	EQ-1P/2
Kopayev A.V.	CQ-5P/12		
Kopylov Yu.L.	ELP-P/13		
Korduban O.M.	DP-9P/21		
Korenivski V.	DR-7P/19, BR-1P/25		

Kurbatov P.A.	BQ-2P/18	Locatelli N.	BB-7L/3, BB-7L/1, AA-L2
Kurbatova Yu.N.	EA-1O/4	Logginov A.S.	EB-5O/2
Kuroda K.	DA-4O/2, BA-L2	Loktev V.M.	DQ-3P/1, DC-9L/2, BR-1P/2
Kurtsev D.A.	EL-1-O/4	Lomakina I.Yu.	BQ-2P/2
Kushchenkov S.A.	DP-9P/34	Lopes A.M.L.	DC-9L/6
Kushnir K.M.	EP-10P/25	Los A.V.	CB-3O/3
Kuskova N.I.	DC-9O/2	Loshkareva N.N.	DA-4O/9
Kuusik I.	DL-2-O/5	Loza K.I.	EP-10P/6
Kuzenko D.V.	CQ-5P/9	Lozenko A.F.	CB-3O/3
Kuznetsova V.V.	EQ-1P/1	Lozenko V.V.	CQ-5P/1
Kuznetsova V.Yu.	DP-9P/11	Lozovski V.Z.	CP-4P/22
Kuznetzova E.A.	BQ-2P/28	Lubchanskii M.I.	CQ-5P/5
Kuzovlev Yu.E.	DP-9P/33, DP-9P/30	Lubyaniy L.Z.	BQ-2P/10
Kios J.W.	BC-7L/3	Luhechko A.P.	ELP-P/14, DP-9P/22
L			
Labbé C.	EL-2-L/1, DC-9L/5	Luetkens H.	EQ-1P/12, AB-L1
Lachinov A.N.	DQ-3P/28, CA-6L/4	Lukienko I.M.	DQ-3P/13, CP-4P/5
Lagunov I.M.	BQ-2P/29	Lukin A.A.	BQ-2P/27
Laletin V.M.	EB-5O/6	Lukshina V.A.	BQ-2P/23, BQ-2P/12
Lamekhov S.Y.	DR-7P/24, DR-7P/12	Lutsev L.V.	CB-3O/2
Lamonova K.	EQ-1P/15, EQ-1P/14, EQ-1P/13, EQ-1P/12, EQ-1P/11, AC-1L/2	L'vov V.A.	CA-6L/2, BA-O1
Lapin B.P.	CP-4P/27	Lyashenko O.V.	BP-6P/22
Lazarenko O.A.	DP-9P/6	Lysov V.I.	BQ-2P/22
Lazarenko O.I.	EP-10P/17	Lytvyn P.M.	DC-9O/4
Lazarenko O.N.	EP-10P/7	Lyubchanskii I.L.	DA-4O/5, DA-4O/4, CP-4P/4
Lazarev I.V.	ELP-P/10	Lyubutin I.S.	CQ-5P/4
Lazarov V.K.	DC-9O/4	Lyutyy T.V.	DR-7P/8
Lazuta A.V.	EA-1O/3	M	
Le Normand F.	DP-9P/8	Machnev O.M.	CP-4P/18
Lebedev N.G.	EP-10P/2	Magén C.	CB-3O/1
Lebedeva E.V.	DQ-3P/25	Makarenko O.V.	EP-10P/27
Lebedeva I.	EC-10O/5, EP-10P/28	Makarova A.V.	DP-9P/11
Lee Joon-Hyung	DC-9O/6, DA-4O/7	Makhaev V.D.	EA-1O/6
Lee Y.P.	DA-4O/5, DA-4O/4, CP-4P/4	Makmak I.M.	EQ-1P/31
Legenkiy Yu.A.	EC-10O/8, EP-10P/15	Makoed I.I.	CQ-5P/1
Leitão D.	DC-9L/6	Makogon Yu.N.	DQ-3P/24, DP-9P/29, CQ-5P/18
Lemmens P.	EQ-1P/16, AC-1L/2	Makovetskii G.I.	DQ-3P/23, CQ-5P/1, BR-1P/13
Len T.	DP-9P/3	Maksimov V.V.	DC-9O/7, DP-9P/20
Leont'ev A.A.	CP-4P/13	Maksimova E.M.	EP-10P/22, BP-6P/19, BP-6P/18
Levchenko G.G.	EQ-1P/31, EQ-1P/30, EQ-1P/1, BR-1P/27, BR-1P/17, BR-1P/16, BR-1P/14	Malakhovskii A.V.	DA-4O/6, CP-4P/13, CP-4P/11
Levchenko S.M.	EP-10P/26	Malashenko T.I.	EQ-1P/26
Levchenko V.V.	DP-9P/7	Malashenko V.V.	EQ-1P/26
Levi Ken	DC-9O/3	Malyukin Yu.V.	EL-2-O/3
Levshin A.	EP-10P/3	Malyy T.	ELP-P/11
Levshov S.M.	ELP-P/1	Mamalui Ju.A.	BQ-2P/8, BQ-2P/7, BQ-2P/6
Levushkina V.S.	DL-1-O/2	Mamica S.	BC-7O/7, BC-7L/3
Levyi S.V.	CP-4P/18	Mamunya E.P.	DP-9P/7
Li Y.	EA-1O/6	Mancoff F.	BC-7L/2
Liang C-H.	EL-2-L/1	Marais S.	EC-10O/7
Likhanov M.S.	CQ-5P/19	Marchenko A.I.	DQ-3P/3
Linchevskiy I.V.	CA-6O/3	Marković R.	EP-10P/23
Litsis O.	ELP-P/18, ELP-P/4	Marynchenko L.	EP-10P/19
Litvinenko S.V.	DP-9P/36	Masalov A.A.	EL-2-O/3
Litvinov L.	EP-10P/3	Maslennikov E.D.	CP-4P/10

Mateychenko P.V.	ELP-P/12	Mostovoy S.O.	EP-10P/22
Mathur N.D.	EA-10/2	Mostovshchikova E.V.	DA-40/9
Matsui D.	DP-9P/8	Motalo J.V.	EP-10P/5
Matsynin A.A.	DQ-3P/21	Mousa H.M.	DR-7P/10
Matveeva L.A.	DC-90/4	Moya X.	EA-10/2
Matveevskaya N.A.	ELP-P/13	Mozul K.A.	DP-9P/41
Matvienko O.O.	DP-9P/16	Muduli P.K.	BC-7L/2
Matvienko Ya.I.	DP-9P/18	Muhortov V.	CQ-5P/3
Matzui L.I.	EQ-1P/27	Mukhin A.A.	EB-50/4
Matzui L.Yu.	DP-9P/8, DP-9P/6, DP-9P/5, DP-9P/3	Mukhin A.B.	CQ-5P/5
Mazinov A.C.	DP-9P/38	Mukovskii Ya.M.	EA-10/3, BR-1P/12
Mazur A.S.	CQ-5P/1, BR-1P/18	Murshudli M.M.	EP-10P/30
Medvedev Yu.V.	DP-9P/30, BR-1P/19	Murtazin R.R.	BR-1P/5, BQ-2P/24, BQ-2P/3
Medvedeva L.I.	EQ-1P/10	Musienko D.	BP-6P/6
Mehjez Emad M.	DR-7P/11	Muzhev V.V.	EP-10P/7
Meinikov A.A.	DP-9P/32	Myagkov V.G.	DQ-3P/21
Mel'nik V.I.	EP-10P/26	Myakush O.	DQ-3P/16
Melkov G.A.	BC-70/1	Mykhailenko N.A.	EP-10P/13
Melnichuk I.A.	EQ-1P/7, EQ-1P/4	Mykhaliuk O.V.	DP-9P/35
Melnik R.V.N.	CB-3L/1 (EB-5L/1)	Mytsyuk B.M.	DQ-3P/18
Melnik T.N.	DQ-3P/14	Marchenko M.A.	AC-1L/1
Melnychenko T.V.	DP-9P/18		
Mentink J.H.	BA-L3	<i>N</i>	
Meshkov G.A.	EB-50/2	Nabiullin I.R.	CA-6L/4
Metlov L.S.	EQ-1P/25	Nadutov V.M.	EC-100/2, EA-10/7, DQ-3P/15, BQ-2P/17, BQ-2P/16, BQ-2P/15
Mezin N.I.	DP-9P/30	Nagornaya L.L.	EL-2-O/3, ELP-P/7
Mikhailin V.V.	ELP-P/7, DL-2-O/1, DL-2-L/1, DL-1-O/2	Nakhodkin N.G.	DP-9P/15
Mikhailova T.V.	CP-4P/14, CP-4P/5	Nakvasina E.Y.	DR-7P/27
Mikhajlov B.P.	DP-9P/25	Naletov V.V.	BB-7L/3, AA-L2
Mikhajlova A.B.	DP-9P/25	Nauhatsky I.A.	EP-10P/22, BP-6P/19, BP-6P/18
Mikhlin Yu.L.	DP-9P/34	Naumenko A.P.	EP-10P/28, EP-10P/26, EP-10P/25
Mill' B.V.	CQ-5P/4	Naumov P.G.	CQ-5P/4
Miloslavskaya O.V.	CP-4P/5, BR-1P/31	Nazarenko B.P.	DL-1-O/4
Milyukova E.T.	CP-4P/19, CP-4P/12	Nazarov V.N.	BQ-2P/24, BQ-2P/2
Minozhenko O.A.	CP-4P/16	Nechyporenko O.S.	DP-9P/7
Mironov V.L.	DP-9P/43, DP-9P/42	Nedeljković D.	EP-10P/23
Mishina E.	EB-50/5, CQ-5P/3, CP-4P/23	Nedielko I.	ELP-P/18, ELP-P/2
Mishra Indu B.	DC-90/3	Nedilko S.	EL-2-O/4, EL-1-O/5, EL-1-O/3, ELP-P/18, ELP-P/17, ELP-P/8, ELP-P/6, ELP-P/5, ELP-P/4, ELP-P/2, DL-2-O/2, DL-2-O/1, DL-1-O/3
Mitin V.F.	DC-90/4	Nedilko S.A.	ELP-P/2
Mitin V.V.	DC-90/4	Nedopekin O.V.	EQ-1P/2
Mitina N.	ELP-P/11	Nedviga A.S.	CP-4P/19
Mitsiuk V.I.	EB-50/7	Neicheva S.	EL-1-O/2, DL-1-O/6
Mittl S.	ELP-P/17	Nesteruk A.G.	CP-4P/19
Mogilevsky R.	ELP-P/17	Nevdacha V.V.	DQ-3P/18
Moiseeva T.N.	DC-90/7	Neveu S.	CP-4P/17, BP-6P/14, BP-6P/12
Mokhovikov A.Yu.	BP-6P/21	Nikiforov S.V.	DL-2-O/3
Molchanov A.N.	EQ-1P/29	Nikitin S.A.	EB-50/7
Molkanov P.L.	EA-10/3	Nikitina Z.K.	EA-10/6
Morellón L.	CB-30/1	Nikolaenko R.N.	EC-100/1
Morgun A.O.	DR-7P/23	Nikolaenko T.	ELP-P/8
Moriya R.	BA-L2	Nikolaenko Yu.M.	DP-9P/33, DP-9P/30, CQ-5P/5, BR-1P/19
Morosov A.I.	DQ-3P/2		
Moroz O.Y.	DR-7P/27		
Morozov I.L.	BP-6P/21		
Morozova N.V.	BP-6P/21		
Moshchalkov V.V.	CQ-5P/1		

Nikolaev A.V.	EB-5O/2	Pavlenko A.V.	EP-10P/18
Nikolaeva E.P.	EB-5O/2	Pavlov D.A.	DR-7P/9
Nikolaychuk G.A.	DR-7P/27	Pavlov E.S.	DR-7P/14
Nikolenko A.M.	ELP-P/15	Pavlov V.	AB-L3
Nikolov O.T.	EP-10P/6	Pavlova E.P.	DQ-3P/24, DP-9P/29, CQ-5P/18
Nikulin Y.V.	DQ-3P/22	Pavlukhina O.O.	BR-1P/6
Nizhankovskiy S.V.	ELP-P/9	Pavlyk L.	DQ-3P/16, CB-3O/5
Nosenko A.	BQ-2P/21, BQ-2P/20	Pazura Yu.V.	ELP-P/13
Nosenko V.	DC-9O/7, BQ-2P/20	Pchelyakov O.P.	DP-9P/34
Novitskii N.N.	CB-3O/2	Pereira A.M.	DC-9L/6
Novohatskaya T.N.	DP-9P/28	Perekos A.E.	EC-10O/2, DQ-3P/15, DP-9P/19
Nurakhmetov T.	CP-4P/25	Perekos A.O.	BQ-2P/16, BQ-2P/15
O		Perets J.	DP-9P/6
Ogorodnikov I.N.	EL.2-O/2, DL.1-O/5	Pernod P.	CP-4P/17, CA-6L/3, BP-6P/14, BP-6P/13, BP-6P/12, BP-6P/11
Okuda M.	BC-7O/7	Perov N.	DP-9P/8
Oleynick S.V.	DP-9P/28	Pestun A.E.	EA-1O/3
Olikhovska L.O.	DP-9P/18, BP-6P/8	Petrakovskaya E.A.	EQ-1P/24
Olszewski M.	EQ-1P/19, EQ-1P/18	Petrakovskii G.	BR-1P/30
Onanko A.P.	BP-6P/22	Petrusha I.A.	EL.2-O/2, ELP-P/16
Onanko Y.A.	BP-6P/22	Petrychuk M.V.	DR-7P/23, DP-9P/2, BQ-2P/14
Orel S.	EQ-1P/15, EQ-1P/14, EQ-1P/13, EQ-1P/12, EQ-1P/11	Petuskey William	DC-9O/3
Oshkadyorov S.P.	EP-10P/18, EP-10P/17, EP-10P/16, EP-10P/7	Pikaluk V.S.	EP-10P/22
Osipov A.V.	CQ-5P/16	Pimenov Yu.N.	EP-10P/15
Ovanesyan N.S.	EA-1O/6	Pinchuk-Rugal' T.M.	DP-9P/7
Ovcharenko A.I.	EQ-1P/22	Pismenova N.E.	BR-1P/17, BR-1P/14
Ovchinnikov S.G.	CP-4P/15	Podhorodecki A.	EL.2-L/1
Ovchynnikov V.	ELP-P/18, ELP-P/4	Podshivalova O.V.	DP-9P/28
Overko N.E.	BQ-2P/10	Podyalovskii D.I.	EA-1O/2
Ovsienko I.	DP-9P/5, DP-9P/3	Podyalovskiy D.Y.	DQ-3P/18
P		Podymova N.B.	BP-6P/20
Paczwa M.	EQ-1P/19	Pogibko V.M.	CQ-5P/9
Pal'chik M.G.	DQ-3P/10	Pogorelov A.E.	DQ-3P/12, DP-9P/21
Panfilova E.V.	EC-10O/6	Pogorelov Yu.G.	CB-3O/1
Panikarskaya V.D.	ELP-P/10	Pogorily A.M.	DQ-3P/18, CQ-5P/1
Pankratov N.Yu.	EB-5O/7	Pogoryelov Ye.A.	DQ-3P/12, BC-7L/2
Pankratov V.	EL.2-O/1	Pogrebnyak S.V.	EQ-1P/22
Paranchich L.	EQ-1P/11	Pokholok K.V.	EQ-1P/23
Pardo J.A.	CB-3O/1	Polek T.I.	CQ-5P/1
Parshin A.S.	DP-9P/34	Polulyakh S.N.	EQ-1P/20
Pashchenko A.V.	BR-1P/21, BR-1P/18, BR-1P/17, BR-1P/16	Polyakov A.Yu.	DR-7P/8
Pashchenko M.I.	DQ-3P/17	Polyakov P.I.	EQ-1P/27, CA-6O/4, BP-6P/4
Pashchenko V.A.	DQ-3P/17	Pomjakushina E.	AC-1L/2
Pashchenko V.P.	BR-1P/21, BR-1P/18, BR-1P/17, BR-1P/16	Ponomarev A.F.	CA-6L/4
Pashkevich Yu.	EQ-1P/17, EQ-1P/16, EQ-1P/15, EQ-1P/14, EQ-1P/13, EQ-1P/12, EQ-1P/11, DP-9P/1, BR-1P/27, AC-1L/2, AB-L1	Ponomarev S.L.	CP-4P/18
Pashkova O.N.	DP-9P/27	Popenko N.	EQ-1P/11
Paszkowicz W.	EL.1-O/1	Popescu A.M.	DP-9P/40, DP-9P/24
Patrin G.S.	DQ-3P/11, DQ-3P/10	Popov V.V.	DP-9P/20
Patrin K.G.	DQ-3P/11	Popov A.V.	EP-10P/8
Paulmann C.	BR-1P/8	Popov V.V.	BQ-2P/26, BQ-2P/25
		Popov Yu.F.	EB-5O/4
		Portier X.	DC-9L/5
		Postivey N.S.	CP-4P/12, CP-4P/11
		Postol P.N.	EQ-1P/31
		Potapenko A.V.	BQ-2P/30
		Potapov A.P.	BQ-2P/23, BQ-2P/13, BQ-2P/12
		Potyemkin M.M.	EP-10P/12
		Pozdeyeva I.V.	BQ-2P/25

Prabhakar S.	EB-5L/1	Rumyantsev P.A.	DR-7P/26
Preobrazhensky V.L.	CP-4P/17, CA-6L/3, BP-6P/16, BP-6P/14, BP-6P/13, BP-6P/12, BP-6P/11	Rumyantsev V.V.	CP-4P/3
Pritula A.Yu.	ELP-P/5	Ryabchenko S.M.	CB-3O/3
Pritula I.M.	DP-9P/23	Ryabova A.V.	EP-10P/8
Pritulenko A.	CQ-5P/24, CQ-5P/21	Ryabushkin D.S.	EQ-1P/21
Privezentsev R.V.	EA-10/3	Ryakhova O.G.	BQ-2P/5
Prodayvoda G.T.	BP-6P/22	Rynkov D.O.	DQ-3P/2
Proença M.	DC-9L/6	Ryzhov V.A.	EA-10/3
Prokhorov A.Yu.	BR-1P/27	S	
Prokopenko O.V.	DR-7P/3, DR-7P/2	Saenko G.V.	BQ-2P/22
Prokopenko V.K.	BR-1P/18, BR-1P/17, BR-1P/16	Saitoh E.	BA-L2
Prokopov A.R.	DR-7P/21, CP-4P/14, CP-4P/9, CP-4P/6, CP-4P/5	Sakharov V.K.	DR-7P/13, DQ-3P/20
Prolubnikova Tatiana	EC-100/5	Salikhoja Zh.	CP-4P/25
Pronin I.P.	EB-5O/8, CQ-5P/16	Salikhov R.B.	DQ-3P/28
Pronin V.P.	EB-5O/8	Salyuk O.Y.	CB-3O/1, CA-6L/2
Pryhodko O.O.	ELP-P/15	Samchenko I.I.	EC-100/2
Pud A.A.	DR-7P/23	Samofalov V.N.	BQ-2P/10
Pud S.A.	DR-7P/23	Sánchez D.	EA-1O/2
Pudonin F.A.	DQ-3P/19, DQ-3P/9	Sapiga A.A.	EQ-1P/18
Pustovarov V.	DL-2-O/5, DL-2-O/4	Sapiga A.V.	EQ-1P/18
Puzikov V.M.	DL-1-O/4	Satoh T.	DA-4O/2, BA-L2
Puzniak R.	BR-1P/31	Savchenko A.A.	DA-4O/8
Pyatakov A.P.	EB-5O/2	Savchenko A.S.	CQ-5P/2
Pyeshkova V.N.	EP-10P/10	Savchyn V.P.	ELP-P/9
Pylnov Yu.V. ...	CP-4P/17, BP-6P/14, BP-6P/13	Savin Yu.N.	DP-9P/16
Q		Savon A.E.	DL-2-O/1
Quang H.D.	BR-1P/14	Savytskii D.I.	BR-1P/8
R		Saxena S.	EL-1-O/1
Radchenko V.	EP-10P/3	Schefer J.	BR-1P/30
Radyush Yu.V.	BR-1P/13	Scherbatsky V.	ELP-P/18, ELP-P/5, ELP-P/4, ELP-P/2, DL-1-O/3
Rasing Th.	DA-4O/5, DA-4O/4, CP-4P/4, BA-L3	Schmid H.	BR-1P/31
Rassolov S.G.	DC-9O/7, DP-9P/20	Schostak R.	CQ-5P/23
Ravinski A.F.	CQ-5P/1	Schwarzacher W.	BC-7O/7
Ravlik A.G.	BQ-2P/10	Sechin D.A.	EB-5O/2
Real J.A.	EQ-1P/30	Sedunova I.N.	DL-1-O/5
Reshetnyak S.A.	DR-7P/22, DR-7P/18	Segalla A.G.	CQ-5P/8
Revenko Ju.F.	BR-1P/21	Seleznyova K.A.	CP-4P/12, CP-4P/11
Revenko Yu.F.	BR-1P/18, BR-1P/17, BR-1P/16	Selyshchev Pavlo	DP-9P/39
Revo S.L.	ELP-P/17, DP-9P/4	Semen'ko M.P.	BQ-2P/21
Rodin S.A.	DP-9P/28	Semenov A.L.	BP-6P/21
Rodionova T.V.	DP-9P/15	Semenova Yu.S.	BP-6P/4
Rogalsky S.P.	EC-100/7	Semin S.	CP-4P/23
Rokhmistrov D.V.	EP-10P/6, EP-10P/5	Semuk Ye.Yu.	DR-7P/21
Romanova I.V.	BQ-2P/30	Senkevich S.V.	EB-5O/8
Romero-Vivas J.	BC-7L/3	Senyshyn A.	DQ-3P/16
Roschenko S.T.	DP-9P/9	Serebryannikov S.V.	DR-7P/26
Rozova M.G.	EQ-1P/23	Serga A.A.	BC-7O/2
Rud A.D.	DC-9O/2	Sergeev A.S.	EB-5O/2
Rudenko V.V.	CP-4P/17, BP-6P/14	Sergeev N.A.	EQ-1P/19, EQ-1P/18
Rugal' O.G.	DP-9P/7	Sergeeva O.N.	EB-5O/8, CQ-5P/16
		Severina S.N.	EP-10P/18
		Shabat M.M. ...	DR-7P/11, DR-7P/10, DA-4O/1
		Shabunina G.G.	EQ-1P/6
		Shadrin V.V.	DR-7P/24, DR-7P/12
		Shafeev R.R.	BQ-2P/2
		Shamina E.N.	EP-10P/2

Shamraj V.F.	DP-9P/25	Sigov A.S.	EB-5O/5
Shamsutdinov M.A.	DR-7P/7, BQ-2P/2	Silcheva A.G.	BR-1P/18, BR-1P/17, BR-1P/16
Shanina B.D.	EQ-1P/29	Simokaitiene J.	EP-10P/25
Shapaeva T.B.	EA-1O/4, CP-4P/9, BR-1P/5	Sipe J.E.	BC-7O/8
Shaposhnikov A.N.	DR-7P/21, CP-4P/14, CP-4P/9, CP-4P/6, CP-4P/5	Siryuk Ju.A.	BQ-2P/8, BQ-2P/7, BQ-2P/6
Shapoval O.	ELP-P/11	Sitnikov A.V.	DQ-3P/25, CB-3O/3
Shapovalov V.A.	EQ-1P/25, EQ-1P/14	Skibinsky K.M.	BP-6P/17, BP-6P/16
Shapovalov V.V.	EQ-1P/25	Skirta Y.B.	BP-6P/5
Sharafutdinova L.	ELP-P/17	Skjeltorp A.T.	BQ-2P/27
Sharay I.V.	DP-9P/12, CP-4P/6	Skokov K.P.	CA-6O/2
Sharipova M.I.	CP-4P/9	Skorikov M.L.	DC-9O/5
Shavrov V.G.	CQ-5P/2, BP-6P/15, BP-6P/10	Skorikov V.M.	ELP-P/3
Shcherbatskyii V.	ELP-P/17	Skorohodov E.V.	DC-9O/1, DP-9P/43, DP-9P/42
Sheka D.D.	BC-7O/3	Skrypnyk Yu.V.	EA-1O/5, DC-9L/2
Sheka E.F.	DC-9L/1	Slavin A.N.	DR-7P/3, DR-7P/2, BC-7O/1, BB-7L/2
Shekera O.V.	EP-10P/7	Sliva T.Yu.	ELP-P/18, ELP-P/5, ELP-P/4
Shekhovtsov A.N.	DL 1-O/4	Slobodyanik M.	EL 1-O/3, DL 2-O/2
Shelest V.V.	EQ-1P/1, BR-1P/27	Slyunin E.	EP-10P/3
Sheludko V.	EL 1-O/3, ELP-P/17, ELP-P/2	Slyusarev V.V.	EQ-1P/27, BP-6P/4
Shemyakov A.A.	BR-1P/17	Smagin N.V.	EP-10P/1
Shepel D.V.	DC-9O/5	Smarzhevskaya A.I.	EB-5O/7
Shermadini Z.	AB-L1	Smirnov D.O.	DR-7P/26
Sherstnev I.A.	DQ-3P/19	Smirnov V.V.	BQ-2P/8, BQ-2P/7
Sherstyuk N.	CQ-5P/3, CP-4P/23	Smolyak S.S.	EQ-1P/28
Shevchenko I.P.	DP-9P/35	Soare V.	DP-9P/24
Shevchenko N.A.	DA-4O/4	Sobolev N.A.	BC-7O/2
Shevchenko O.G.	DQ-3P/27	Sodemann Inti	BC-7L/1
Shevchenko V.V.	EP-10P/7	Söderberg Outi	CA-6O/1
Shevelkov A.V.	CQ-5P/19	Sofronov D.S.	EL 2-O/3, DP-9P/31
Shevtsova T.N.	EQ-1P/17, EQ-1P/16, DP-9P/1, AC-1L/2	Sofronova E.M.	DP-9P/31
Shilov G.V.	EA-1O/6	Sohatsky V.P.	DQ-3P/6
Shimura T.	DA-4O/2, BA-L2	Sokolov A.	CP-4P/15, CP-4P/11, BR-1P/1
Shipkova I.G.	DQ-3P/25, DP-9P/9	Sokolovskiy V.V.	BR-1P/6, BP-6P/2
Shirin-zadeh A.A.	EP-10P/30	Sokolovskyy M.L.	DR-7P/16, BC-7O/7, BC-7L/3
Shirman L.	EL 2-O/1	Soldatkin A.P.	EP-10P/9
Shitov A.A.	CQ-5P/7	Soldatkin O.O.	EP-10P/9
Shkarban R.A.	CQ-5P/18	Solin N.I.	DA-4O/9
Shlapakov M.S.	DQ-3P/25	Solnyshkin A.V.	CQ-5P/16
Shlapatska V.V.	DP-9P/7	Solovjov A.L.	EQ-1P/3
Shmatko A.A.	DP-9P/28	Solskii I.	CQ-5P/22, CQ-5P/21
Shmeleva L.V.	ELP-P/19	Sopilnyak A.V.	CQ-5P/11
Shpak A.P.	DP-9P/21, DP-9P/14	Sorokin V.	BR-1P/1
Shpotyuk O.I.	DP-9P/13	Sousa C.T.	DC-9L/6
Shulenkov A.S.	CB-3O/2	Spassky D.A.	ELP-P/7, DL 2-O/1, DL 1-O/2
Shulika V.V.	BQ-2P/13	Spiridonov N.A.	CQ-5P/15, CQ-5P/9
Shulimov Yu.G.	DP-9P/36	Spiridonov V.N.	CQ-5P/15
Shulyma S.I.	BQ-2P/9	Spuskanyuk V.Z.	BQ-2P/17
Shurinova E.V.	DP-9P/41	Srinivasan G.	EB-5O/6
Shvyrkov K.	CP-4P/23	Stajčić A.	EP-10P/23
Sibeldin N.N.	DC-9O/5	Stajčić-Trošić J.	EP-10P/23
Sid-Ahmed Mohammed O.	DA-4O/1	Starshinov I.N.	EQ-1P/8
Sidelnikova N.S.	ELP-P/9	Starzhinsky N.	DL 1-O/6
Sidletskiy O.Ts.	EL 1-O/4, EL 1-O/2, DL 1-O/6	Stefanovich L.I.	DP-9P/17, DP-9P/10
Sidorenko S.I.	DQ-3P/24, DP-9P/29, CQ-5P/18	Stępień P.	EQ-1P/19
Sidorov S.L.	EQ-1P/3	Stetsenko A.N.	DQ-3P/13

Stevanović J.	EP-10P/23	Terentyuk G.S.	EC-100/6
Stognei O.V.	CB-30/3	Terui Y.	BA-L2
Stognij A.I.	CB-30/4, CB-30/2	Tiberkevich V.S.	DR-7P/3, DR-7P/2, BC-70/1, BB-7L/2
Strebkova O.A.	EP-10P/16	Tikhiy A.A.	BR-1P/19
Strelchuk V.V.	ELP-P/15, DP-9P/7	Timchenko I.	EP-10P/3
Štrichovanec P.	CB-30/1	Timofeeva N.A.	DP-9P/28
Strokova A.Yu.	DA-40/6	Timopheev A.A.	CB-30/3
Strugatsky M.B.	EP-10P/22, CP-4P/12, CP-4P/11, BP-6P/19, BP-6P/18, BP-6P/17, BP-6P/16	Timoshenko V.Yu.	EP-10P/29
Strunkov P.F.	CQ-5P/14	Timoshevskii A.N.	BR-1P/33, BR-1P/32, BR-1P/29, BR-1P/25
Stryganyuk G.B.	DL 1-O/1	Titenko A.N.	BP-6P/9
Sucharev Yuri.	EC-100/5	Titov Yu.	EL 1-O/5
Suchocki A.	EL 1-O/1, DP-9P/22	Tkachenko I.M.	EP-10P/7
Sugak D.	DP-9P/22, CQ-5P/22, CQ-5P/21	Tkachenko M.	EP-10P/4, BQ-2P/19
Sukachev D.	BR-1P/1	Tkachenko V.S.	DR-7P/17
Sukhachev A.L.	DA-40/6, CP-4P/13, CP-4P/11	Tkachev A.V.	EQ-1P/23, CQ-5P/19
Sukhorukov Yu.P.	CP-4P/24, CP-4P/8	Tkachuk Z.Yu.	EP-10P/26
Sukhorukova O.S.	BP-6P/15	Tkatch V.I.	DC-90/7, DP-9P/20
Sukhostavets O.V.	BC-70/6	Todris B.M.	EQ-1P/10
Sultanov R.A.	DR-7P/6	Tolmachev A.V.	EL 2-O/2, ELP-P/16, ELP-P/13, ELP-P/12
Sundqvist B.	DP-9P/2	Torkunov A.V.	BQ-2P/26
Suprun A.D.	ELP-P/19	Tovstolytkin A.I.	EA-10/2, CQ-5P/1
Sushikova J.A.	DP-9P/37	Train C.	EA-10/6
Svechnikov O.S.	EP-10P/27	Tretyakova M.S.	DL 1-O/2
Svistunov E.A.	BQ-2P/16	Tripachko N.A.	DP-9P/2
Svyrydova K.A.	DP-9P/20	Trots D.M.	DQ-3P/16, BR-1P/11
Svystunov Ye.O.	EA-10/7, BQ-2P/15	Trukhanov S.V.	BR-1P/15
Sycheva V.Ya.	BR-1P/21, BR-1P/18	Trush V.A.	ELP-P/5
Sydooruk V.A.	DP-9P/2	Tsaregradskaya T.L.	BQ-2P/22
Syr'ev N.E.	DQ-3P/25	Tsolin P.L.	DC-90/2
Syvorotka I.I.	ELP-P/14, DP-9P/22, CB-30/5	Tsurkan V.	AC-1L/2
Syvorotka I.M.	ELP-P/14	Tsvetkova E.A.	DR-7P/27
Szewczyk A.	BR-1P/31	Tsymbal L.T.	CQ-5P/2
T			
Tafiychuk Y.M.	CQ-5P/12	Tupitsyna I.A.	EL 2-O/3, ELP-P/7
Tagirov L.R.	EQ-1P/2, DQ-3P/5	Turchenko V.A.	BR-1P/21, BR-1P/18
Tandon R.P.	EB-50/1	Turkevich V.Z.	EL 2-O/2, ELP-P/16
Tanygin B.M.	EB-50/3, BQ-2P/14	Turkov O.V.	BQ-2P/22
Tanygina O.M.	BQ-2P/14	Tyablikov O.A.	EQ-1P/23
Tarabtseva S.V.	BQ-2P/11	Tychko O.V.	DA-40/3, BQ-2P/9
Taranets R.M.	EQ-1P/5	U	
Tarassenko A.S.	CQ-5P/2	Ubeid Muin F.	DA-40/1
Tarassenko S.V.	CQ-5P/2, BP-6P/15	Ubizskii S.B.	ELP-P/14, CB-30/5
Tarassenko T.N.	DQ-3P/23, CQ-5P/1, BR-1P/13	Ulyanov A.N.	BR-1P/14
Tarasyuk O.P.	EC-100/7	Useinov A.N.	DQ-3P/5
Tarenkov V.Yu.	EQ-1P/3, DP-9P/27, BR-1P/20, BR-1P/7	Useinov N.Kh.	DQ-3P/5
Tartakovskaya E.V.	BC-70/2	Ushakov N.M.	DP-9P/11
Taskaev S.V.	BP-6P/1	Ustinov A.B.	DR-7P/5
Tataryn T.R.	BR-1P/8	Ustinov A.I.	DP-9P/18
Taya Sofyan A.	DR-7P/11	Ustinov V.V.	BR-1P/12
Telegin A.V.	CP-4P/24, CP-4P/8, BR-1P/16	Uvarov N.V.	BP-6P/3
Temerov V.L.	DQ-3P/17	V	
Terebilenko K.	EL 1-O/3, DL 2-O/2	Vakhitov R.M.	BQ-2P/5, BQ-2P/4
Terekhov S.A.	EQ-1P/31, EQ-1P/30	Vakiv M.M.	DP-9P/22
Terekhova Yu.V.	DP-9P/17, DP-9P/10	Valakh M.Ya.	EQ-1P/29

Varyuhin V.N.	DP-9P/17	Yakovchuk V.Yu.	DQ-3P/11
Varyukhin D.V.	DP-9P/27	Yakubovskaya A.G.	EL.2-O/3
Vashchuk D.L.	BQ-2P/17	Yakushiji K.	BB-7L/1
Vasilenko A.S.	DP-9P/19	Yanchitsky B.Z.	BR-1P/25
Vasilenko T.A.	EQ-1P/29	Yanchuk I.B.	EQ-1P/29
Vasko E.I.	EQ-1P/7	Yanushkevich K.I.	DQ-3P/23, DP-9P/40, DP-9P/24, CQ-5P/1, CB-3O/4, BR-1P/13
Vasylechko L.	DQ-3P/16, DP-9P/22, BR-1P/11	Yaremiy I.P.	CQ-5P/12
Vasyliiev A.V.	EQ-1P/4	Yarikov S.A.	DQ-3P/11
Vdovenko S.I.	ELP-P/1	Yashchuk V.M.	EP-10P/28, EP-10P/26, EP-10P/25, EP-10P/24
Venger E.F.	DC-9O/4	Yatsenko A.	CQ-5P/24, CQ-5P/23, CQ-5P/22, CQ-5P/21
Ventura J.	DC-9L/6	Yavetskiy R.P.	EL.2-O/2, ELP-P/16, ELP-P/13
Verba R.V.	BC-7O/1	Yavorsky M.A.	CP-4P/27
Verbitska T.I.	DQ-3P/24, DP-9P/29, CQ-5P/18	Yefimova T.V.	DP-9P/19, BQ-2P/17, BQ-2P/16
Verchenko V.Yu.	CQ-5P/19	Yermolenko I.S.	EP-10P/17
Vertegel I.G.	EQ-1P/22	Yevdokimov S.	CQ-5P/24, CQ-5P/22, CQ-5P/21
Vickers M.E.	EA-1O/2	Yevstafiyev I.I.	BQ-2P/31
Vishnevskii V.G.	CP-4P/20, CP-4P/19	Yevstafiyev O.I.	CA-6L/3, BP-6P/16
Vishniak V.V.	DP-9P/14	Yevtushenko N.V.	EP-10P/28
Vistovskyy V.	ELP-P/11	Yu S.C.	BR-1P/14
Vitusevich S.A.	DP-9P/2	Yuasa S.	BB-7L/1, AA-L2
Vityuk N.V.	ELP-P/15	Yumaguzin A.R.	BQ-2P/4
Vladimyrskiy I.A.	DQ-3P/24	Yurasov A.N.	CP-4P/8
Vlasova T.A.	BQ-2P/29	Yurchenko V.M.	DQ-3P/14, DP-9P/17, BP-6P/15
Vojnash V.Z.	DP-9P/19	Yushchenko A.A.	BR-1P/32
Volkova E.G.	BQ-2P/12		
Volodin V.D.	ELP-P/3	Z	
Volodin V.O.	DP-9P/38	Zabluda V.N.	CP-4P/15, CP-4P/11
Voloshin A.	EP-10P/3	Zabolotnyy M.A.	DP-9P/7
Voloshina O.V.	EL.1-O/4, EL.1-O/2, DL.1-O/6	Zabotnov S.V.	CP-4P/10
Voloshinovskii A.S.	ELP-P/11, DL.1-O/1	Zacharova A.A.	BQ-2P/23
von Gratowski S.	BP-6P/10	Zadneprovski B.I.	DL.1-O/2
von Seggern H.	DP-9P/33	Zagorodniy Yu.A.	EQ-1P/28
Vorob'ev G.P.	EB-5O/4	Zagrebin M.A.	BR-1P/6
Vorob'yov V.P.	EP-10P/26	Zaichenko A.	ELP-P/11
Voronov V.N.	EQ-1P/24	Zainullina A.M.	BQ-2P/5
Vorzobova N.D.	DP-9P/26	Zainullina R.I.	BR-1P/12
Vovchenko L.L.	DP-9P/6, DP-9P/5	Zakharenko M.I.	DP-9P/8, DP-9P/4, BQ-2P/21, BQ-2P/20
Vovk A.	CB-3O/1	Zalutsky V.P.	DP-9P/19, BQ-2P/17, BQ-2P/16, BQ-2P/15
Vovk O.M.	EL.2-O/3	Zasukhin S.V.	DQ-3P/7
Vovk O.O.	DP-9P/16	Zatovskiy I.	EL.1-O/3
Voynash V.Z.	EC-10O/2, BQ-2P/16, BQ-2P/15	Zavorotnev Yu.D.	EQ-1P/10
Voznyak T.	ELP-P/16	Zelenskaya O.V.	DL.1-O/4
Vysotsky S.L.	DR-7P/14, DR-7P/13	Zelinskaya G.M.	DC-9O/2
Vyzhva S.A.	BP-6P/22	Zenya I.M.	EL.1-O/4, DL.1-O/6
Vyzulin S.A.	DQ-3P/25	Zhakharko Ya.M.	ELP-P/14
W		Zhdanov A.G.	CP-4P/9
Werner-Malento E.	EL.1-O/1	Zheltonozhskaya T.B.	EP-10P/28
Wieckowski J.	BR-1P/31	Zhigalov V.S.	DQ-3P/21
Willumeit R.	EA-1O/7	Zhikharev I.V.	BR-1P/19
Wisniewski A.	BR-1P/31	Zhitlukhina E.	EQ-1P/14, EQ-1P/11
Wulferding D.	AC-1L/2		
Y			
Yablonovskii S.O.	BR-1P/32, BR-1P/29		
Yagupov S.V.	CP-4P/12, CP-4P/11, BP-6P/18, BP-6P/16		
Yagupov V.S.	CP-4P/12		

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Zhukov A.	<i>EL. 1-O/4, EA-1L/1, DL. 1-O/6</i>	Zorenko Yu.V.	<i>EL. 1-L/1, ELP-P/16, ELP-P/9</i>
Zhukova V.	<i>EA-1L/1</i>	Zotov I.S.	<i>DR-7P/25, DR-7P/9</i>
Zhukovsky S.V.	<i>DA-4L/1, BC-7O/8</i>	Zubavichus Ya.V.	<i>CP-4P/15</i>
Zhuravkov A.V.	<i>DP-9P/5</i>	Zubov V.E.	<i>BP-6P/19, BP-6P/18</i>
Zhuravlev V.D.	<i>DL. 2-O/4</i>	Zvezdin A.K.	<i>EB-5O/2, BB-7L/1</i>
Zhurkov S.A.	<i>DL. 1-O/5</i>	Zvezdin K.A.	<i>DR-7P/1, BB-7L/1, AA-L2</i>
Zhydachevskii Ya.	<i>DP-9P/22</i>	Zyman Z.Z.	<i>EP-10P/5, EP-10P/4</i>
Zorchenko V.V.	<i>DQ-3P/13</i>		

Notes

