

**International Conference
“Functional Materials”**

ICFM ' 2005

PROGRAM

Ukraine, Crimea, Partenit

October 3 – 8, 2005

**International Conference “Functional Materials”
Organizers:**

Ministry of Education and Science of Ukraine
National Academy of Sciences of Ukraine
V. Vernadsky Taurida National University
Institute of Magnetism (NASU, MESU)
Institute for Single Crystals (NASU)
Section "Magnetism" of CCM of RAS
Taurida Ecology Institute
Ukrainian Physical Society

ICFM' 2005. The conference will address aspects relevant to the physics, technology and applications of new materials and structures with specified functional properties.

International Committee

**V.G. Baryakhtar (Ukraine) -
chairman**

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V.G. Vishnevsky

Address of the Organizing Committee

Physics Department

V. Vernadsky Taurida National University

Yaltinskaya st. 4, Simferopol

95007 Ukraine

Phone: (+38 0652) 232211, 230223

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 "Crimea" Health-Resort. CONFERENCE SESSIONS will be held in the Cinema of the "Crimea" 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 Presentation (15 min).

LANGUAGE For abstract, oral and poster presentations the language is English.

CONFERENCE PROCEEDINGS

Participants are solicited to submit full papers of their accepted contribution to publish in the special issue of the "Functional Materials" journal as regular papers. One issue of the journal will include up to 40 papers of 6-8 pages (in sum with illustrations). The Program Committee will execute the preliminary selection of papers.

COMMUNICATIONS During the Conference all participants will be able to send and receive messages via electronic mail. If you want to receive an e-mail message during the Conference please use the following address: icfm@mail.ru

The message must contain your family name in the Subject line.

Information about all personal messages received will be available at the Organizing Committee information desk.

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 "Crimea" Health-Resort there is a taxi stop. If you have a problem with getting your return tickets inform the Organizing Committee in time.

CULTURE PROGRAM

Monday, October 3, at 20.00 – Welcome party

Tuesday, October 4 at 20.00 – Concert

Wednesday, October 5, at 15.00 – testing of Crimean Vine from "Magarach" collection (Yalta).

Thursday, October 6, at 20.00 – Concert.

Friday, October 7, at 20.00 – Conference Dinner

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

TIME-TABLE OF THE DINNING-HALL 1:

8.00-9.00 – breakfast

14.00-15.00 – dinner

19.00-20.00 – supper

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Schedule of conference

Date	Time		Oral presentations (Hall)	Poster presentations (Foyer)
Monday, October 3	10.00-11.30	Session AA	Opening. Plenary I	
	11.45-14.00	Session AB	Plenary II	
	15.00-19.00	Session AC	Section 1. Physics of Functional Materials	
	15.00-19.00	Session AP		Section 6. Magnetoelastic and Adaptive Materials
		Session AQ		Section 7. Microwave Materials
		20.00-21.30	Culture program	Welcome party
Tuesday, October 4	9.00-13.30	Session BA	Plenary III	
	9.30-14.00	Session BP		Section 8. Ionizing Radiation Sensing Materials
	15.00-19.00	Session BB	Section 3. Materials for Spin Electronics. Transport Phenomena	
		Session BQ		Section 1. Physics of Functional Materials
	15.00-19.00	Session BR		Section 5. Piezoelectric and Magnetolectric Materials
		20.00-21.30	Culture program	Concert
Wednesday October 5	9.00-11.30	Session CA	Section 6. Magnetoelastic and Adaptive Materials	
	11.45-14.00	Session CB	Section 7. Microwave Materials	
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	15.00-18.00	Culture program		Wine Testing (Yalta)

Date	Time		Oral presentations (Hall)	Poster presentations (Foyer)
Thursday, October 6	9.00-13.30	Session DA	Section 9. Nanophysics & Nanotechnologies for Functional Materials I	
	10.00-14.00	Session DP		Section 9. Nanophysics & Nanotechnologies for Functional Materials II
		Session DQ		Section 11. Instrumentation and Measurement Technique
		Session DB	Section 9. Nanophysics & Nanotechnologies for Functional Materials II	
	15.00-19.00	Session DR		Section 9. Nanophysics & Nanotechnologies for Functional Materials I
		Session DS		Section 4. Electrooptic and Magneto optic Materials
	20.00-21.30	Culture program		Concert
Friday, October 7	9.00-12.00	Session EA	Section 4. Electrooptic and Magneto optic materials	
	12.30-14.00	Session EB	Section 10. Materials for Medical and Environmental Applications. Biosensors	
	9.00-14.00	Session EP		Section 2. Hard and Soft Magnetic Materials
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	15.00-19.00	Session EQ		Section 10. Materials for Medical and Environmental Applications. Biosensors
	19.00		Closing	
	20.00-23.00		Conference dinner	

Monday, October 3.

10.00-11.30 Session AA. Opening. Plenary I

Chairmen: Gorobets Yu.I., Berzhansky V.N.

Session devoted 75-anniversary of academician V.G. Baryakhtar

**AA-L1 The contribution of V.G. Baryakhtar science school to
fundamental physics of functional materials**

Gorobets Yu.I.

Institute of Magnetism of NAS of Ukraine, Kiev, Ukraine

11.45-14.00 Session AB. Plenary II

Chairmen: Baryakhtar V.G., Ignatchenko V.A.

**AB-L1 Spin waves in media with regular and random
inhomogeneities (invited)**

Ignatchenko V.A.

L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia

AB-L2 Spin-reorientation region in orthoferrites (invited)

**Tsymbol L.T.¹, Bazaliy Ya.B.², Kamenev V.I.¹, Kakazei G.N.³
and Wigen P.E.⁴**

¹ *O.Galkin Donetsk Physics&Tekhnology Institute NASU, Donetsk,
Ukraine*

² *IBM Almaden Research Center, San Jose, USA.*

³ *Institute of Magnetism NASU, Kiev, Ukraine*

⁴ *Ohio State University, Department of Physics, Columbus, USA.*

**AB-L3 The Spin Wave Damping under Condition of Spin Reorientation
Phase Transitions (invited)**

Baryakhtar V.G., Danilevich A.G.

Institute of Magnetism, Kiev, Ukraine

**AB-L4 Generation of microwave spin waves by spin-polarized current in
magnetic nano-contacts (invited)**

Slavin Andrei and Tiberkevich Vasil

Department of Physics, Oakland University, Rochester, USA

15.00-19.00**Oral Session AC.****Section 1. Physics of Functional Materials****Chairmen: Zvezdin A.K., Ovchinnikov S.G.**

- AC-L1** **“Destressing” energy and shape-induced phenomena in antiferromagnets** (invited)
Gomonay H.V.^{1,2} and Loktev V.M.²
¹*National Technical University of Ukraine “KPI”, Kyiv, Ukraine*
²*Bogolyubov Institute for Theoretical Physics, NAS of Ukraine, Kyiv, Ukraine*
- AC-L2** **Magnetism of copper oxide compounds** (invited)
Petrakovskii G.A., Bezmaternikh L., Aleksandrov K.,
 Martinov S., Popov M., Pankrats A.
Institute of Physics SB RAS, Krasnoyarsk, Russia
B.Roessli, J.Schefer, Institute of Paul Sherrer, Villigen, Switzerland
- AC-L3** **Electronic structure of cuprates with electron and hole type of doping** (invited)
 Ovchinnikov Sergey G.
L.V. Kirensky Institute of Physics Siberian Branch of RAS, Krasnoyarsk, Russia
- AC-1/1** **Metal-insulator transition caused by spin state blockade in layered cobaltites $\text{RBaCo}_2\text{O}_{5.5}$ studied by Raman scattering** (invited)
Pashkevich Yu.G.¹, Gnezdilov V.P.², Lemmens P.³, Ambrosch-Draxl C.⁴, Lamonova K.V.¹, Gusev A.A.¹, Choi K.-Y.⁵, Barilo S.N.⁶, Shiryayev S.V.⁶ and Bychkov G.L.⁶
¹*A.A. Galkin Donetsk Phystech NASU, Donetsk, Ukraine*
²*B.I. Verkin Inst. for Low Temp. Physics NASU, Kharkov, Ukraine*
³*Inst. für Halbleiterphysik und Optik, Braunschweig, Germany*
⁴*Institut für Theoretische Physik, Universität Graz, Graz, Austria*
⁵*Inst. for Mat. Res., Tohoku Univ., Katahira 2-1-1 Sendai, Japan*
⁶*Institute of Physics of Solids & Semiconductors, Academy of Sciences, Minsk, Belarus*
- AC-1/2** **Properties of Josephson Junctions in the Inhomogeneous Magnetic Field of a System of Ferromagnetic Particles**
 Vdovichev S.N.*, Gribkov B.A.*, Gusev S.A.*, Il'ichev E.**,
 Klimov A.Yu.*, Nozdrin Yu.N.*, Pakhomov G. L.*, Rogov V.V.*,
 Stolz R.** and Fraerman A.A.*
 * *Institute of Physics of Microstructures, Russian Academy of Sciences, Nizhni Novgorod, Russia*
 ** *Institute for Physical High Technology, Jena, Germany*

- AC-1/3** **Dynamic Jahn-Teller effect in the spin molecule V_{15} and electromagnetic absorption**
Popkov A.F.¹, Kulagin N.E.¹, Popov A.I.², Zvezdin A.K.³
¹*Zelenograd Research Institute of Physical Problems, Moscow, Russia,*
²*Moscow Institute of Electronic Technology, Moscow, Russia,*
³*General Physics Institute of Russian Academy of Science, Moscow, Russia*
- AC-1/4** **Magnetic excitations in $Na_5RbCu_4(AsO_4)_4C_{12}$ – the novel hybrid material with a mixed covalent-ionic bonding**
Pashkevich Yu.G.¹, Zvyagin S.A.², Chervinskii D.A.¹,
 Lamonova K.V.¹, Krzystek J.³, Gnezdilov V.⁴, Lemmens P.⁵,
 Hwu S.-J.⁶, Ulutagay-Kartin M.⁶ and Clayhold J.A.⁶
¹*Hochfeld-Magnetlabor, Forschungszentrum Rossendorf, Dresden, Germany*
²*A. A. Galkin Donetsk Phystech, Donetsk, Ukraine*
³*National High Magnetic Field Laboratory, Tallahassee, USA*
⁴*B. I. Verkin Inst. for Low Temp. Phys. and Eng., Kharkov, Ukraine*
⁵*Tech. Univ. Carolo Wilhelmina Braunschweig, Braunschweig, Germany*
⁶*Clemson University, Clemson, South Carolina, USA*
- AC-1/5** **Quasi two-dimensional antiferromagnet on a triangular lattice**
Prozorova L.A., Svistov L.E., Smirnov A.I., Petrenko O.A.
P.L. Kapitza Institute for Physical Problems RAS, Moscow, Russia
- AC-1/6** **Anomalous behavior of g-factor in canted antiferromagnetic $CoCO_3$**
 Meshcheryakov V.F.
Moscow State Institute of Radioengineering, Electronics and Automation, Moscow, Russia
- AC-1/7** **Magnetoelectric interactions in rare earth ferrobates**
 Kadomtseva A.M., Vorob'ev G.P., Popov Yu.F., Pyatakov A.P.,
 Zvezdin A.K.*
Physics department, M.V. Lomonosov Moscow State University, Moscow
 **Institute of General Physics RAS, Vavilova St., 38, Moscow, Russia*
- AC-1/8** **Spin-reorientation transition in $Er(Fe,Co)_{11}Ti$ single crystals**
Pankratov N.Yu.¹, Skokov K.P.², Telegina I.V.¹, Zubenko V.V.¹,
 Ivanova T.I.¹, Nikitin S.A.¹
¹ - *Department of Physics, Lomonosov Moscow State University, Moscow, Russia*
² - *Department of Physics, Tver State University, Tver, Russia*

- AC-1/9 Magnetic relaxation phenomena in bimetallic oxalato-bridged two- and three-dimensional networks**
Ovanesyanyan N.S.¹, Pyalling A.A.¹, Shilov G.V.¹, Makhaev V.D.¹, Kovalenko V.I.¹, Sokolov V.B.¹, Gruselle M.², Train C.² and Bottyan L.³
¹*Institute of Problems of Chemical Physics, Chernogolovka, Russia;*
²*Laboratoire de Chimie Inorganique et Matériaux Moléculaires, Université Pierre et Marie Curie, Paris Cédex 05, France;*
³*KFKI Research Institute for Particle and Nuclear Physics, Budapest, Hungary*
- AC-1/10 Magnetic, structural and electronic transitions in the yttrium iron garnet at high pressures**
Lyubutin I.S. and Gavriliuk A.G.
Institute of Crystallography, Russian Academy of Sciences, Moscow, Russia

15.00-19.00**Poster Session AP.****Section 6. Magnetoelastic and Adaptive Materials**

Chairmen: Runov V.V., Glavatska N.

- AP-6/1 Effect of alloying on the phase transformation and magnetic shape memory in Ni-Mn-Ga compounds**
 Glavatska N.¹, Dobrinskiy A.¹, Glavatsky I.¹, Urubkov I.¹, Soderberg O.², Hannula S.P.²
¹*Institute for Metal Physics, Academy of Science of Ukraine, Kiev, Ukraine*
²*Laboratory of Physical Metallurgy and Materials Science, Helsinki University of Technology, Espoo, Finland*
- AP-6/2 Acoustic Resonance and Magneto-Elasticity in Weak Magnetic Fields**
 Berzhansky V.N.¹, Pernod P.³, Polulyakh S.N.¹, Preobrazhensky V.L.^{2,3}, Strugatsky M.B.¹, Yagupov S.V.¹
¹*Taurida National University, Simferopol, Ukraine*
²*Wave Research Center of General Physics Institute RAS, Moscow, Russia*
³*Institut d'Electronique, de Microelectronique et de Nanotechnologie, Ecole Centrale de Lille, France*
- AP-6/3 Large linear superelasticity in Ni-Mn-Ga ferromagnetic martensites**
Glavatsky I., Glavatska N.
Institute for Metal Physics, Academy of Science of Ukraine, 36 Vernadsky Blvd., Kiev, UA-03142, Ukraine

- AP-6/4** **The peculiarities of the acoustic refraction for the 1D magnetic phononic crystal**
Tarasenko O.S., Yurchenko V.M.
Donetsk Physics & Technology Institute, NASU, Donetsk, Ukraine
- AP-6/5** **On the nature of magnetostriction anomalies in single crystal KDy(WO₄)₂ at low temperatures**
 Borowiec M.T.¹, Krynetskii I.B.², Popkov A.F.³, Popov A.I.⁴,
 Dyakonov V.P.^{1,5}, Nabialek A.¹, Zayarnyuk T.¹ and
 Szymczak H.¹
¹*Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*
²*M.V.Lomonosov Moscow State University, Moscow, Russia*
³*FSUE Zelenograd F.V.Lukin Research Institute For Physical Problems, Moscow, Russia*
⁴*Moscow Institute of Electronic Engineering, Moscow, Russia*
⁵*A.A.Galkin Donetsk Physico-Technical Institute, Donetsk, Ukraine*
- AP-6/6** **Magneto-optical study TbCo/FeCo nanostructured thin films**
Klimov A.^{1,2}, Masson S.², Preobrazhensky V.^{2,3}, Pernod P.²,
 Tiercelin N.²
Laboratoire Européen Associé en Magnéto-Acoustique Nonlinéaire de la matière condensée (LEMAC) (1,2,3):
 1. *Moscow Institute of Radioengineering, Electronics and Automation, LEMAC, Moscow, Russia*
 2. *Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN – DOAE UMR CNRS 8520) Ecole Centrale de Lille, France*
 3. *Wave Research Center of A.M. Prokhorov General Physics Institute RAS, Moscow, Russia*
- AP-6/7** **Application of ferrite spinel for velocimetry of flows in liquids by means of phase conjugation of ultrasonic waves**
Pyl'nov Yu.^{1,2}, Preobrazhensky V.^{2,3}, Pernod Ph.²,
 Krutyansky L.^{2,3}, Ivanov M.^{1,2}, Smagin N.^{1,2}
Laboratoire Européenne Associé en Magnéto-Acoustique Nonlineaire de la matière condensée (LEMAC):
 1. *Moscow Institute of Radioengineering, Electronics and Automation, , Moscow, Russia*
 2. *Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN – DOAE UMR CNRS 8520) Ecole Centrale de Lille, France*
 3. *Wave Research Center of General Physics Institute RAS, Moscow, Russia*
- AP-6/8** **Current induced phase transitions in a layered film structure containing magnetic shape memory alloy**
 Koledov V.V.¹, Popkov A.F.², Shavrov V.G.¹
¹*Institute of Radio Electronics of Russian Academy of Science, Moscow, Russia*
²*Zelenograd Research Institute of Physical Problems, Moscow, Russia*

- AP-6/9** **Observation of magnetic moment in X-ray Mn spectra of Me_2MnZ Heusler alloys**
Yarmoshenko Yu.M., Svyazhin A.D., Shreder E.I.
Institute of Metal Physics, 18 S.Kovalevskaya St., Ekaterinburg, Russia.
- AP-6/10** **Atomic and magnetic ordering in Cu_2MnAl Heusler alloy**
 Repetsky S.P., Yaremko R.O.
Taras Shevchenko Kyiv National University, Kyiv, Ukraine
- AP-6/11** **The influence of homogeneous deformation on the Low spin – High spin phase transitions under pressure**
 Shelest V.V., Christov A.V., Levchenko G.G.
Donetsk Physico-Technical Institute, NAS of Ukraine, Donetsk, Ukraine
- AP-6/12** **About origin large internal bend of “crystalline lattice” during explosive crystallisation in amorphous Tb-Fe magnetic films**
 Kveglis L.I., Seriodkin V.A., Yakovchuk V.Yu.
L.V. Kirensky Institute of Physics, Krasnoyarsk, Russia
- AP-6/13** **Ultrasonic properties of magnetoelastic composite material based on Terfenol-D**
Krutyansky L.^{1,2}, Busbridge S.³, Pernod P.² and Preobrazhensky V.^{1,2}
Laboratoire Européen Associé en Magnéto-Acoustique Nonlinéaire de la matière condensée (LEMAC) (1,2):
 1. Wave Research Center of A.M. Prokhorov General Physics Institute RAS, Moscow, Russia.
 2 Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN – DOAE UMR CNRS 8520) Ecole Centrale de Lille, France.
 3. School of Engineering, University of Brighton, UK.
- AP-6/14** **Magneto-acoustic Effects and the Problem of Stability of Magnetic Phases in the Rotationally-Invariant Theory**
Vakhitov R.M., Ryakhova O.G.
Bashkir State University, Ufa, Russia
- AP-6/15** **Influence of nonmagnetic impurities on plasticity deformation velocity of ferromagnets**
 Malashenko V.V.^{1,2}
¹Donetsk National Technical University, Donetsk, Ukraine,
²Donetsk Physical & Technical Institute of the National Academy of Sciences of Ukraine, Donetsk, Ukraine

- AP-6/16** **The Pulse Magnetic Field Influence on the Ti-5Al-5Mo-5V Structure and Phase Composition**
Ryumshyna T.A., Volkova G.K., Doroshkevich A.S., Konstantinova T.E.
The Donetsk A.A.Galkin Institute of Physics and Technology of the NAS of Ukraine, Donetsk, Ukraine
- AP-6/17** **Internal friction in Al-Li alloy**
Lyashenko O.V. and Onanko A.P.
Kiev national university of Taras Shevchenko, Kiev, Ukraine
- AP-6/18** **Fabri-Perrot effect for transverse sound in weak ferromagnet FeBO₃**
 Strugatsky M.B., Skibinsky K.M.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- AP-6/19** **Angular dependence of magnetization in axial stressed FeBO₃ monocrystal**
 Strugatsky M.B., Yagupov S.V., Nauchatsky I.A., Nepevnaya N.S.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- AP-6/20** **Some peculiarities of Pb-62%Sn alloy phase state and deformation behaviour under superplastic conditions**
 Korshak V.F.
V. Karazin Kharkiv National University, 4, Maidan Svobody, Kharkiv, Ukraine
- AP-6/21** **Effect of structural transformations on the physical (magnetic, optical and magneto-optical) properties of the Co₂MnGa Heusler alloy films**
Kudryavtsev Y.V., Oksenenko V.A., Trofimova L.N.
Institute of Metal Physics, National Academy of Sciences of Ukraine, Kiev, Ukraine
- AP-6/22** **Remagnitization features of stressed garnet ferrite films**
 Dubinko S.V., Nedviga A.S., Vishnevskii V.G., Shaposhnikov A.N., Yagupov V.S., Nesteruk A.G., Prokopov A.R.
V.I. Vernadsky Taurida National University

15.00-19.00**Poster Session AQ.****Section 7. Microwave Materials****Chairmen: Petrakovskii G., Fetisov Yu.K.**

- AQ-7/1** **MSSW threshold amplitude of parametric spin waves excitation in monocrystalline ferrite films (MgMnFe)₃O₄**
 Kozhevnikov A.V.¹⁾, Velikanova Yu.V.²⁾, Vysotsky S.L.¹⁾, Filimonov Yu.A.¹⁾
¹⁾ *IRE RAS, Saratov Branch, Saratov, Russia*

²⁾ *Samara State Technical University, Samara, Russia*

- AQ-7/2** **New approach to non-dispersive magnetostatic waves delay line design**
 Filimonov Yu.A., Kozhevnikov A.V., Romanov A.V.,
Vysotsky S.L.
Institute of Radioengineering & Electronics, Saratov department
- AQ-7/3** **Low-frequency auto-oscillations under magnetostatic waves parametric instability in epitaxial YIG films**
 Kozhevnikov A.V., Filimonov Yu.A.
IRE RAS, Saratov Branch, Saratov, Russia
- AQ-7/4** **Composite magnetic coverings absorbing electromagnetic waves in radio electronic systems**
 Stepanov N.V., Cheparin V.P., Serebryannikov S.V.,
 Eremtsova L.L., Kitaitsev A.A.
MPEI(TU), Moscow, Russia
- AQ-7/5** **Study of electromagnetic wave energy absorption in composite media based on "ferrite-graphite" mixture**
 Serebryannikov S.V., Kitaitsev A.A., Cheparin V.P.,
 Eremtsova L.L.
MPEI(TU), Moscow, Russia
- AQ-7/6** **The Spectrum of Microwave Excitations of Magnetic Inhomogeneities Localized in the Defects Area in Cubic Ferromagnets**
 Vakhitov R.M., Sergeyev E.I.
Bashkir State University, Ufa, Russia
- AQ-7/7** **Refraction and reflecture of bulk spin waves on a boundary of two homogeneous dielectric ferrites**
 Gorobets Yu.I.¹, Reshetnyak S.A.²
¹*Institute of Magnetism of NAS of Ukraine, Kiev.*
²*National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv.*
- AQ-7/8** **Microwave properties of the heterostructure gallium arsenide/granular film with cobalt nanoparticles**
Lutsev L.V., Yakovlev S.V., Stognij A.I.¹, Novitskii N.N.²
Research Institute 'Ferrite-Domen', St Petersburg, Russia
¹*Minsk Research Institute of radiomaterials, Minsk, Belarus*
²*Institute of Solid State and Semiconductor Physics, National Academy of Sciences of Belarus, Minsk, Belarus*
- AQ-7/9** **Texture changing of one-domain ferromagnetic particle arrays**
Nosov L.S., Kotov L.N.
Syktyvkar State University, Syktyvkar, Russia
- AQ-7/10** **On the Magnetic Relaxation Mechanisms in Crystals with Hexagonal Syngony**
Petrov V.V., Yakovlev Y.M., Tichomirova M.N.

AQ-7/11 Reorientation of domain walls in a weak ferromagnetic Induced by microwave magnetic fieldGerasimchuk V.S. and Shitov A.A.*Donetsk National Technical University, Donetsk, Ukraine***AQ-7/12 High permittivity doped microwave dielectrics**Dambis M.K., Dolgov A.V., Filikov V.A., Cherkasov A.P.*Moscow Power Engineering Institute***AQ-7/13 Measurements in K-band based on waveguide bragg structure**Danilov V., Makarov D., Oliynik V.*National Taras Shevchenko University of Kyiv, Kyiv, Ukraine***AQ-7/14 Microwave reflecting properties of the thin composite films** $(\text{Co}_{45}\text{Fe}_{45}\text{Zr}_{10})_x(\text{Al}_2\text{O}_3)_{1-x}$ Kalinin Yu.E.¹, Kotov L.N.², Petrunov S.N.², Sitnikov A.V.¹¹*Voronezh State Technical University, Voronezh, Russia*²*Syktvykar State University, Syktvykar, Russia***CB-7/9 Multiresonance method for measuring the impedance and ferromagnetic resonance in microwires**

Berzhansky V.N., Ponomarenko V.I., Popov V.V., Smirnov V.,

Torkunov A.V., Vinogorodsky D., Zharov V.

*V.I. Vernadsky Taurida National University, Crimea, Simferopol, Ukraine***Tuesday, October 4****9.00-13.30****Session BA. Plenary III****Chairmen: Ustinov V.V., Varyukhin V.N.****BA-L1 Scintillation materials for extreme conditions: cosmic space research, geophysical logging, monitoring of aggressive media (invited)**¹Globus M.E., ¹Grinyov B.V., ¹Lyubinskiy V.R., ²Ratner M.A.¹*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*²*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine***BA-L2 Some remarks to electrodynamics of materials with negative refraction (invited)**Veselago V.G.*Moscow Institute of Physics and Technology, A.M.Prokhorov Institute of General Physics RAS*

- BA-L3** **Control of spin transport in magnetic metallic nanostructures: factors of atomic and magnetic ordering** (invited)
 Ustinov V.V.
Institute of Metal Physics, Ural Division of Russian Academy of Sciences, Ekaterinburg, Russia
- BA-L4** **Electronic transport in La-Sr and La-Ba manganites: similarity and dissimilarity** (invited)
Bebenin N.G., Zainullina R.I., Chusheva N.S., Ustinov V.V.
Institute of Metal Physics, UD RAS, Ekaterinburg, Russia
- BA-L5** **Spin polarized transport, inherent magnetic inhomogeneity, and unconventional superconducting pairing in contacts of Pb(MgB₂) – LaCaMnO** (invited)
Krivoruchko V.N., Tarenkov V.Yu., D'aychenko A.I., Varyukhin V.N.
Donetsk Physics & Technology Institute NASU, Donetsk, Ukraine
- BA-L6** **New multiferroic materials: single crystals, thin films, ceramics** (invited)
 Pyatakov A.P.^{1,2}
¹*Institute of General Physics RAS, Moscow, Russia*
²*Physics department, M.V. Lomonosov, Moscow State University, Moscow, Russia*

9.30-14.00

Poster Session BP.

Section 8. Ionizing Radiation Sensing Materials

Chairmen: Globus M.E., Nedilko S.

- BP-8/1** **On the Origin of fast Luminescence Components in doped ZnSe Crystals**
 Ryzhikov V., Starzhinskiy N.
Institute for Scintillation Materials, STC "Institute for Single Crystals", National Academy of Science of Ukraine, Kharkov, Ukraine
- BP-8/2** **Formation and Properties of Optical Active Centers in Zinc Selenide Crystals with Cationic Dopants**
 Starzhinskiy N., Katrunov K., Zenya I., Gal'chinskii L., Silin V., Mateichenko P., Ryzhikov V., Ratner M.
Institute for Scintillation Materials of STC "Institute for Single Crystals" of NAS of Ukraine, Kharkov, Ukraine

- BP-8/3** **Design of new perspective material CdZnTe with a high degree of structural perfection and spectrometric quality for non-cryogenic detectors of gamma-radiation**
 Atroschenko L.V., Voronkin E.F., Gal'chinetskii L.P., Galkin S.N., Lalayants A.I., Rybalka I.A., Ryzhikov V.D., Silin V.I.
Institute for Scintillation Materials of NAS of Ukraine, Kharkov, Ukraine
- BP-8/4** **New borate storage phosphor**
Yavetskiy R.P., Tolmachev A.V., Dubovik M.F.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- BP-8/5** **Nature of high-temperature excretion of water at the dehydration of sodium iodide in vacuum**
 Sofronov D.S., Voloshko A.Yu., Shishkin O.V.
Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine
- BP-8/6** **Thermal desorption of gases from the CsI:Tl crystals**
 Sofronov D.S., Voloshko A.Yu., Grenyov B.V., Kydin K.A., Shishkin O.V.
Institute for Single Crystals NAS of Ukraine, Kharkov, Ukraine
- BP-8/7** **Optical properties and atomic structure of reactive magnetron sputtering formed ZnO_x films at oxygen pressure variation**
 Poperenko L.V., Vinnichenko M.V., Ozerov M.V., Lebedeva T.S.*
Taras Shevchenko Kiev National University, Physics Department, Kiev, Ukraine
 *Institute of Cybernetic of NANU
- BP-8/8** **Particularities of Gadolinium Orthosilicate Doping with Ions of Dy, Eu and Pr**
 Nagornaya L., Starzhinskiy N., Katrunov K., Onischenko G., Ryzhikov V., Sintsov O.
Institute for Scintillation Materials of STC "Institute for Single Crystals", Kharkov, Ukraine
- BP-8/9** **A method of quality estimation of CdS:Te single crystals**
Melnikov A.A.^a, Melnikov O.A.^a, Sopov V.S.^b
^a*Moscow State Institute of Radioengineering, Electronics, and Automation (Technical University), Moscow, Russia*
^b*Institute of Theoretical and Experimental Physics, Moscow, Russia*
- BP-8/10** **Mechanism of light scattering centers formation in NaI:Tl crystals**
Kudin K.A.¹, Voloshko A.Yu.^{1,2}, Shlyakhturov V.V.², Mitichkin A.I.²
Tekhnopark ISC, 60 Lenin ave., Kharkov, Ukraine
Institute for Scintillation Materials, 60 Lenin ave., Kharkov, Ukraine
- BP-8/11** **Luminescent properties of CdWO₄:Tb³⁺ crystals**
 Kostyk L., Luzechko A., Tsvetkova O.

Faculty of Electronics, Ivan Franko National University of Lviv, Lviv, Ukraine

- BP-8/12 Peculiarities of lead molybdate crystal growth doped by Nd**
Kosmyna M.B., Nazarenko B.P., Puzikov V.M.,
Shekhovtsov A.N.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- BP-8/13 Investigation of the scintillation characteristics for CsI(Tl) and NaI(Tl) crystals under different conditions of the treatment**
Kilimchuk I.V., Andryushchenko L.A., Boyarintsev A.Yu.,
Vyday Yu.T., Grinyov B.V., Kudin A.M., Tarasov V.A.
Institute for Scintillation Materials, NASU, 60 Lenin Ave., Kharkiv, Ukraine
- BP-8/14 Non-linearity of the light yield of organic and inorganic scintillators exposed to alpha rays of various energy**
Grinyov B.V., Tarasov V.A., Vidaj Yu.T., Kudin A.M.,
Andrushenko L.A., Kilimchuk I.V., Ananenko A.A.,
Gordienko L.S.
Institute for scintillation materials NAC Ukraine
- BP-8/15 Thin Film Oxide Systems for Detection of Ionizing Radiation**
Nedilko S., Degoda V., Malashkevich G.*
*Kyiv National Taras Shevchenko University, Kyiv, Ukraine
** Institute of Molecular and Atomic Physics of BAS, Minsk, Belarus
- BP-8/16 Photoconductor properties of polymer composite carbazole-containing films with 1,8-Naphthylene -1',2'-Benzimidazole**
Guba N.F.¹, Davidenko N.A.²
¹⁾ L.V. Pysarzhevskiyi Institute of Physical Chemistry of NAS of Ukraine, Kyiv, Ukraine.
²⁾ Taras Shevchenko Kyiv National University, Kyiv, Ukraine.
- BP-8/17 Influence initial fusion mixture on quality CdWO₄ crystals**
Grinyov B.V., Ryzhikov V.D., Shishkin O.V., Pirogov E.N.,
Nagornaya L.L., Babiychuk I.P., Voloshko A.Yu.,
Vostretsov Yu.Ya., Kudin K.A., Sofronov D.S.
Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine
- BP-8/18 Growth of trigonal YbAl_{3-x}Fe_x(BO₃)₄ crystals in bismuth and lithium molibdate based fluxes**
Bezmaternykh L.N.¹⁾, Temerov V.L.¹⁾, Gudim I.A.¹⁾,
Stolbovaja N.A.²⁾
Kirensky Institute of Physics, Krasnoyarsk, Krasnoyarsk State University

BP-8/19 Adaptation of the Organic Porous Scintillators for the α -Emitters Determination

Andryushchenko A.Yu., Blank A.B., Budakovsky S.V.,
Zenenska O.V., Shevtsov M.I.

Institute for Scintillation Materials, STC "Institute for Single Crystals" of NAS of Ukraine, Kharkiv, Ukraine

BP-8/20 Studying 1,3-dithiole-2-thione-4,5-dithiolate complexes of metals as fluorescent gauges

Vitushkina S.V., Starodub B.A.

Kharkov national university by V.N. Karazin, Kharkov, Ukraine.

BP-8/21 Ageing of plastik scintillators

Khlapova N., Senchyshyn V.

Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine

BP-8/22 Dihydrophosphate crystals potassium and ammonium (KDP, ADP) doped with thallium crystals: luminescent and scintillation properties

Voronov A.P., Vyday Yu.T., Logvinenko O.N., Puzikov V.M.,
Salo V.I., Tarasov V.A.

CNS «Institute for Single Crystals" NASU

BP-8/23 Methodical aspects and measuring set-up for investigation the ability to selective detection of different ionizing radiations by organic scintillators

Galunov N.Z., Martynenko E.V., Tarasenko O.A.

Institute for Scintillation Materials NAS of Ukraine, Kharkiv. Ukraine

BP-8/24 Near-field electrostatics of the superconductor pad at the semiconductor substrate

Lozovski V.*, Reznik D.*, Glumova M.**

* *Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine*

** *National Tavrida University, Simferopol, Crimea, Ukraine*

15.00-19.00**Oral Session BB.****Section 3. Materials for Spin Electronics. Transport Phenomena****Chairmen: Lee S.J., Bebenin N.G.****BB-L1 Dilute Magnetic Semiconductors: Ferromagnetism and Spintronics Materials (invited)**

Ivanov V.A.

N. S. Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia

BB-L2 Semiconductor spintronics materials and structures (invited)

Borukhovich A.S.

Solid State Chemistry Institute of the Ural Branch of RAS; Russian state vocational pedagogical university, Ekaterinburg, Russia

- BB-3/1 On the Diluted Magnetic Mn-doped III–V Semiconductor Quantum Wells**
 Kim J.W., Kim N., Lee S.J.⁺, Shon Y., Kang T.W. and Ihm G.*
Quantum-functional Semiconductor Research Center, Dongguk University, Seoul, Korea
 * *Department of Physics, Chungnam National University, Daejeon, Korea*
- BB-3/2 Regularities of EAD stresses in anomalies and features of magnetic semiconductors**
Polyakov P.I.^{a,*}, Kucherenko S.S.^b, Budko O.V.^c
^a*Mining Processes Physics Institute of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*
- BB-3/3 Polarons in $\text{La}_{0.85}\text{Ba}_{0.15}\text{MnO}_3$ single crystal: optical data**
Mostovshchikova E.V., Bebenin N.G. and Loshkareva N.N.
Institute of Metal Physics, Ural Div. of RAS, Ekaterinburg, Russia
- BB-3/4 Magnetoresistance enhancement in heterostructures based on $\text{La}_{1-x}\text{Ag}_x\text{MnO}_{3+\delta}$ and Fe-Co alloy**
Gorbenko O.Yu.¹, Melnikov O.V.¹, Kaul A.R.¹, Zhgoon S.A.²
¹- *Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
²-*Power Engineering Institute, Moscow, Russia*
- BB-3/5 Crystal structure and magnetic properties of $\text{Tb}_{1-x}\text{Y}_x\text{MnO}_3$ single crystals**
Ivanov V.Yu.¹, Mukhin A.A.¹, Travkin V.D.¹, Prokhorov A.S.¹ and Balbashov A.M.³
¹*General Physics Institute of the Russian Acad. Sci., Moscow, Russia*
²*Moscow Power Engineering Institute, Moscow, Russia*
- BB-3/6 Effects of quantum coherence in magnetic nanolayers**
 Pogorelov Yu.G.
Departamento de Física, Universidade do Porto, Porto, Portugal
- BB-3/7 Giant magnetoresistance effect in magnetic multilayer structures with polycrystalline spacer**
Dekhtyaruk L.V.¹, Marszalek M.², and Protsenko I.Yu.¹
¹*Sumy State University, Sumy, Ukraine,*
²*The Henryk Niewodnichanski Institute of Nuclear Physics PAN, Radzikowskiego, Krakow, Poland.*
- BB-3/8 Domain wall nucleation and motion in ultrathin Co/Pt films and multilayers with perpendicular anisotropy**
Iunin Yu.L.¹ and Nikitenko V.I.¹, Cheng X.M.² and Chien C.L.², Shapiro A.J.³ and Shull R.D.³
¹*Institute of Solid State Physics, Russian Academy of Sciences, Chernogolovka, Russia*
²*The Johns Hopkins University, Baltimore, USA*
³*National Institute of Standards and Technology, Gaithersburg, USA*

- BB-3/9** **Effect of anomalous conductivity in ultrathin metallic films**
Boltaev A.P., Pudonin F.A.
P. N. Lebedev Physics Institute, Moscow, Russian Federation
- BB-3/10** **Magnetic fluctuations in film specimens simulated microcores**
Lubyaniy L.Z., Samofalov V.N., Ravlik A.G., Overko N.E.,
 Chichibaba I.A.
*National Technical University "Kharkiv Polytechnic Institute",
 Kharkiv, Ukraine;*
- BB-3/11** **Analysis of an intermediate spin state stability in the pyramidal complexes MO_5 ($M= Fe^{2+}$, Co^{3+} , Mn^{3+} , and Cr^{2+})**
Lamonova K.V., Zhitlukhina E.S., Orel S.M. and
 Pashkevich Yu.G.
A. A. Galkin Donetsk Phystech NASU, Donetsk, Ukraine
- BB-3/12** **Thermodynamics characteristic of ternary sulfides $MeLn_2S_4$ and solid solutions on their basis**
 Kalinina L.A., Ushakova Ju.N., Medvedeva O.V., Shirokova G.I.,
 Fominych E.G.
Vyatka State University, Kirov, Russia

15.00-19.00**Poster Session BQ.****Section 1. Physics of Functional Materials**

Chairmen: Tsymbal L.T., Pogorily A.N.

- BQ-1/1** **New method for measuring magnetoelectric effect in pulsed magnetic fields**
 Bueno-Baques D., Corral-Flores V., Matutes-Aquino J. and
 Rios-Jara D., Grossinger R.*
Centro de Investigación en Materiales Avanzados, S.C. Miguel de Cervantes 120. Complejo Industrial Chihuahua, Mexico
 **Institut für Festkörperphysik, Technische Universität Wien, Wien, Austria*
- BQ-1/2** **Consideration of a Heisenberg Ferromagnetic above the Curie temperature as a Spin liquid**
 Kuz'min E.V., Fridman Yu.A., Kosmachev O.A., Klevets Ph.N.
V.I. Vernadsky Taurida national university, Simferopol, Ukraine
- BQ-1/3** **Series of the phase transitions in 2D-ferromagnet with competing one-ion and exchange anisotropies**
 Fridman Yu.A., Klevets Ph.N., Matunin D.A.
V.I. Vernadskiy Taurida national university, Simferopol, Ukraine
- BQ-1/4** **Features of the phase transitions in $GdBaCo_2O_{5+\delta}$ under high pressure**
 Doroshev V.D., Borodin V.A., Pashkevich Yu.G., Kamenev V.I.,
 Mazur A.S., Tarasenko T.N.
A.A. Galkin Donetsk Phystech NASU, Donetsk, Ukraine

- BQ-1/5** **Magnetic phase transitions of $\text{GdFe}_3(\text{BO}_3)_4$ from ^{57}Fe - Mossbauer measurements**
Kharlamova S.A.¹, Ovchinnikov S.G.¹, Bayukov O.A.¹,
 Gavriilyuk A.M.² and Lyubutin I.S.³
¹ *L.V. Kirensky Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, Russia*
² *Shubnikov Institute of Crystallography, Moscow, Russia*
³ *Institute of High-Pressure Physics RAS, Troitsk, Moscow region, Russia*
- BQ-1/6** **The conditions of the formation of the intermediate state in the vicinity of the "antiferromagnetism-ferromagnetism" phase transition**
 Shamsutdinov M.A., Kharisov A.T., Sakaev R.D.
Bashkir State University, Ufa, Russia
- BQ-1/7** **Dynamics of the Magnetization Nucleus in a Ferromagnet**
Shamsutdinov M.A., Nazarov V.N.* , Lomakina I.Yu.
Bashkir State University, Ufa, Russia
 **Institute of Molecular and Crystal Physics of Russian Academy of Sciences, Ufa, Russia*
- BQ-1/8** **Processes of Inhomogeneous Spin Reorientation of Real Magnets**
Vakhitov R.M., Gareyeva E.R., Vakhitova M.M.
Bashkir State University, Ufa, Russia
- BQ-1/9** **Evolution of sine – gordon kinks in the presence of spatial perturbations**
Ekomasov E.G., Shabalin M.A., Azamatov Sh.A.,
 Buharmetov A.F.
Bashkir State University, Ufa, Russia
- BQ-1/10** **Nonlinear Dynamics of Incommensurable Surface Layers**
Gerasimchuk Igor V.^{1*} and Kovalev Alexander S.²
¹*Institute for Theoretical Physics, National Scientific Center "Kharkov Institute of Physics and Technology", Kharkov, Ukraine*
²*B.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine*
- BQ-1/11** **Magnetization effects in ferromagnetic nanostructures with competing anisotropies**
 Bogdanov A.N.^{1,2}, Bukhtiyarova S.V.³, Dragunov I.E.²,
 Zhikharev A.V.^{2,3}, Rößler U.K.¹
¹*Leibniz Institute for Solid State and Materials Research Dresden, Germany*
²*Donetsk Institute for Physics and Technology, Donetsk Ukraine*
³*Lugansk State Pedagogical University, Lugansk Ukraine*
- BQ-1/12** **Quantum dynamics of domain walls in anisotropic Heisenberg ferromagnet. Schwinger-boson approach**
 Finokhin V.I.

- BQ-1/13 Rosette of the domain walls in thin films**
Granovskii Ya.I., Leonov A.A., Mamalui Yu.A., Siryuk Yu.A.
Donetsk National University; Donetsk, Ukraine
- BQ-1/14 Influence of parameters of a film with stripe domain structure on the anisotropy of electron scattering**
Melnichuk I.A., Vasko E.I., Gavrilenko S.V.
PMP & HTSC division, Donetsk National University
- BQ-1/15 Influence of alternate field amplitude and irradiation on the length distributions of linear fragments of LDS in ferrite-garnet films**
Melnichuk I.A., Vasyliiev A.V., Nikitina N.A., Shadrin S.V.
PMP & HTSC division, Donetsk National University
- BQ-1/16 Structure of near-surface magnetic layer in iron borate**
 Zubov V.E.¹, Strugatsky M.B.², Skibinsky K.M.²
¹ *M.V. Lomonosov Moscow State University, Moscow, Russia*
² *V.I. Vernadsky Taurida National University, Simferopol, Ukraine*
- BQ-1/17 Anisotropy of the frustrated ferrimagnets $\text{BaFe}_{12-x}\text{In}_x\text{O}_{19}$**
 Efimova N.N., Tkachenko N.V.
V.Karazin Kharkiv National University, Kharkiv, Ukraine
- BQ-1/18 Magnetic susceptibility of epitaxial garnet ferrite films with “angle phase” anisotropy**
 Butrim V.I., Dubinko S.V., Prokopov A.R.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine

15.00-19.00**Poster Session BR.****Section 5. Piezoelectric and Magnetoelectric Materials**

Chairmen: Lyubutin I.S., Aleksandrov K.S.

- BR-5/1 Multiferroic properties of BiFeO_3 -based ceramics**
Pyatakov A.P.¹, Viehland D.², Bychkov G.L.³, Barilo S.N.³,
 Zvezdin A.K.⁴
¹*Physics department, M.V. Lomonosov, Moscow State University, Moscow, Russia*
²*Dept. Materials Science and Engineering, Virginia Tech, Blacksburg*
³*Institute of Solid State and Semiconductors National Academy of Science of Belarus, Minsk, Belarus*
⁴*Institute of General Physics RAS, Moscow Russia*
- BR-5/2 Properties of the Aurivillius phases in the $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ – BiFeO_3 system**
Lomanova N.A., Morozov M.I., Ugolkov V.L., Gusarov V.V.
Institute of Silicate Chemistry of Russian Academy of Sciences, Saint-Petersburg, Russia

- BR-5/3** **Functional ceramics based on $(\text{Ca}_{0.25}\text{Cu}_{0.75})\text{TiO}_3$**
Ishchuk V.M., Deineka T.G., Baumer V.N., Kozlovskiy A.A.,
Vovk E.A., Sergienko Z.P.
*Institute for Single Crystals , STC " Institute for Single Crystals",
NAS of Ukraine*
- BR-5/4** **Phase transition via intermediate state and control of piezoelectric parameters**
Ischuk V.M.¹, Spiridonov N.A.²
¹*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
²*STC "Reaktivelektron", NAS of Ukraine, Donetsk, Ukraine*
- BR-5/5** **The Effect of Mixing Conditions on Strontium Titanate Nanoparticles in Sol-Gel Process**
Dehghan Hamedan A.¹, Azadmanjiri J.^{2*}, Salehani H.K.³
^{1,4}*Faculty of Mechanical Engineering, KNT University, Tehran, Iran*
^{2,3}*Faculty of Engineering, Damavand Islamic Azad University,
Damavand, Iran*
- BR-5/6** **Peculiarities of pyroelectric properties of congruent LiNbO_3 crystals at $(310 \div 350)\text{K}$**
Denizjenko O.Ju., Shostak R.I., Yatsenko A.V.,
Yevdokimov S.V.
Taurida National University, Simferopol, Ukraine.
- BR-5/7** **Investigation of the electric conductivity and pyroelectric properties of $\text{Sn}_2\text{P}_2\text{S}_6$ crystal**
Yatsenko A.¹, Yevdokimov S.¹, Odoulov S.², Shumelyuk A.²,
Grabar A.³
¹*Taurida National University, Simferopol, Ukraine*
²*Institute of Physics, Ukrainian NAS, Kiev, Ukraine*
³*Institute of Solid State Physics and Chemistry, Uzhgorod State
University, Uzhgorod, Ukraine*
- BR-5/8** **Additional investigation of the H^+ ion site occupation in lithium niobate structure**
Yevdokimov S.V., Yatsenko A.V.
Taurida National University, Simferopol, Ukraine
- BR-5/9** **On the taking into account of the quadrupolar polarizability of ions for the correct computer simulations in ferroelectric crystals**
Yatsenko A.A., Yatsenko A.V.
Taurida National University, Simferopol, Ukraine.

BR-5/10 Magnetic phase transitions in multiferroic BiFeO₃ at high pressureGavriliuk A.G.^{1,2}, Struzhkin V.V.³, Lyubutin I.S.¹, Hu M.Y.⁴ and Mao Ho-kwang³¹ *Institute of Crystallography, Russian Academy of Sciences, Moscow, Russia*² *Institute for High Pressure Physics, RAS, Troitsk, Moscow region, Russia*³ *Geophysical Laboratory, Carnegie Institution of Washington, Washington DC.*⁴ *HPCAT, Carnegie Institution of Washington, Advanced Photon Source, ANL, Argonne, USA***Wednesday, October 5****9.00-11.30****Oral Session CA.****Section 6. Magnetoelastic and Adaptive Materials****Chairmen: Preobrazhensky V.L., Pernod P.****CA-L1 Phase transitions in Ni-Mn-Ga Heusler alloys (invited)**
Runov V.V.*Petersburg Nuclear Physics Institute RAS, Russia***CA-L2 Time-dependent phenomenon caused by magnetic field in the Ni-Mn-Ga magnetic shape memory martensites (invited)**Glavatska N.¹, Glavatskiy I.¹, Rudenko O.², L'vov V.²¹ *Institute for Metal Physics, Academy of Science of Ukraine, Kiev, Ukraine,*² *Taras Shevchenko University, Radiophysics Department, Kiev, Ukraine***CA-6/1 Novel Ferromagnetic Shape Memory Alloys Ni-Mn-Sn**Khovaylo V.¹⁾, Koledov V.¹⁾, Shavrov V.¹⁾, Ohtsuka M.²⁾, Savel'eva O.³⁾, Takagi T.⁴⁾¹⁾ *Institute of Radioengineering and Electronics of RAS, Moscow, Russia*²⁾ *Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan*³⁾ *Low Temperature Physics Department, Moscow State University, Moscow, Russia*⁴⁾ *Institute of Fluid Science, Tohoku University, Sendai, Japan*

- CA-6/2** **EELS study of Ni-Mn-Ga magnetic shape memory alloy**
 Ochoa-Gamboa R.¹, Flores-Zúñiga H.¹, Espinosa-Magaña F.¹,
Ríos-Jara D. and Glavatska N.²
¹*Centro de Investigación en Materiales Avanzados S.C., Chihuahua, México*
²*Institute for Metal Physics, Department of alloyed steels, Kiev, Ukraine*
- CA-6/3** **Magnetic structure evolution with temperature in Ni-Mn-Ga magnetic shape memory martensites**
Glavatskyi I., Urubkov I., Glavatska N.
Institute for Metal Physics, Academy of Science of Ukraine, Kiev, Ukraine
- CA-6/4** **Anomalies of optical and transport properties in Heusler-type Fe₂YAl alloys**
 Shreder E.I., Streltsov S.V., Svyazhin A.D., Marchenkov V.V.
Institute of Metal Physics, Ekaterinburg, Russia.
- CA-6/5** **Nonlinear relaxation phenomena in a thin ferrite film close to the condition of magnetoacoustic resonance**
 Kotov L.N., Vlasov V.S., Asadullin F.F.
Physical Faculty, Syktyvkar State University, Syktyvkar, Russia

11.45-14.00**Oral Session CB.****Section 7. Microwave Materials**

Chairmen: Wigen Philip E., Slavin A.N.

- CB-L1** **Ferromagnetic Resonance Force Microscopy In Micromagnetic Materials** (invited)
 Wigen Philip E.
Department of Physics, Ohio State University, Columbus, Ohio, USA
- CB-7/1** **Current-induced bistability and dynamic range of microwave generation in magnetic nano-structures**
Tiberkevich Vasil and Slavin Andrei
Department of Physics, Oakland University, Rochester, MI, USA
- CB-7/2** **Nonlinear microwave signal processing device based on parametric interaction of spin waves with localized pumping**
Melkov G.A., Kobljanskyj Yu.V., Vasyuchka V.I., Slavin A.N.*
Taras Shevchenko National University of Kiev, Kiev, Ukraine
 **Department of Physics, Oakland University, Rochester, Michigan, USA*
- CB-7/3** **Electrical tuning of ferromagnetic resonance frequency in ferrite-piezoelectric layered structures**
Fetisov Y.K.¹ and Srinivasan G.²
¹*Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow*

- CB-7/4** **MSSW bright soliton in ferrite-dielectric-metal structure**
Filimonov Yu.A.¹⁾, Galishnikov A.A.¹⁾,
 Kozhevnikov A.V.¹⁾, Marcelli R.²⁾, Nikitov S.A.³⁾
¹⁾ *IRE RAS, Saratov Branch, Saratov, Russia*
²⁾ *CNR-IMM, Rome Section, Microwave Microsystems Technology Group, Roma, Italy*
³⁾ *IRE RAS, 11 Mokhovaya St., Moscow, Russia*
- CB-7/5** **Magnetic properties of nanoscale Fe islands on MgO (001) produced by molecular-beam epitaxy**
 Nikulin Yu.V., Dzumaliev A.S., Kozhevnikov A.V., Vysotsky S.L., Butko A.V., Filimonov Yu.A.
IRE RAS, Saratov Branch, Saratov, Russia
- CB-7/6** **Microwave properties of composites filled with chromium dioxide**
Starostenko S.N., Rozanov K.N., Osipov A.V.
Institute for Theoretical and Applied Electromagnetics, Moscow, Russia
- CB-7/7** **Spectrum of spin waves in magnonic crystals with small anisotropy modulation for different interface profiles**
 Kuchko A.N., Tkachenko V.S.
Donetsk National University, Donetsk, Ukraine
- CB-7/8** **Magnetization of nanoparticle arrays induced by a circularly polarized magnetic field**
Denisov S.I.^a, Lyuty T.V.^a, Trohidou K.N.^b, Denisova L.A.^a
^a*Sumy State University, 2 Rimsky-Korsakov Street, Sumy, Ukraine*
^b*Institute of Materials Science, NCSR "Demokritos", Athens, Greece*

9.00-14.00**Poster Session CP.****Section 3. Materials for Spin Electronics. Transport Phenomena****Chairmen: Krivoruchko V.N., Popkov A.F.**

- CP-3/1** **Giant magnetoresistance in magnetic metallic multilayers – optimization with respect to spin asymmetry coefficients and thicknesses of the layers**
 Tagirov L.R.¹, Vodopyanov B.P.², Deminov R.G.¹
¹*Kazan State University, Kazan, Russian Federation*
²*Kazan Physical-Technical Institute of RAS, Kazan, Russian Federation*
- CP-3/2** **Size effects in thin antiferromagnetic layers and “ferromagnet – nonmagnetic metal” multilayers**
 Berzin A.A., Morosov A.I., and Sigov A.S.
Moscow State Institute of Radioengineering, Electronics, and Automation (Technical University), Moscow, Russia

- CP-3/3 Multiple spin-flip transitions and stepwise giant magnetoresistance in uniaxial Fe/Cr superlattices as ground for multiway spin valve**
 Ustinov V.V.^a, Milyaev M.A.^a, Krinitcina T.P.^a, Romashev L.N.^a, Burkhanov A.M.^a, Lauter-Pasyuk V.V.^b, Lauter H.J.^b
^a *Institute of Metal Physics UD RAS, Ekaterinburg, Russia*
^b *Institute Laue Langevin, Grenoble Cedex 9, France*
- CP-3/4 Quenching of the conduction electron spin flip in magnetic nanostructures**
 Useinov A.N., Useinov N.Kh., Tagirov L.R.
Kazan State University, Kazan, Russia
- CP-3/5 Negative differential conductivity in the porous TiO₂/InOHS junction**
 Manilov A.I.¹, Gavrilchenko I.V.¹, Skryshevsky V.A.¹, Dittrich Th.²
¹*Radiophysics Department, Kiev Shevchenko University, Kiev, Ukraine,*
²*Hahn-Meitner-Institut, Berlin, Germany*
- CP-3/6 Experimental study of thickness and annealing temperature dependences of hysteresis and domain structure transformations in exchange biased Co/Ir-Mn bilayers**
Gornakov Vladimir S.¹, Lee Chan Gyu² and Jung Jung Gyu²
¹*Institute of Solid State Physics RAS, Chernogolovka, Moscow distr., Russia*
²*Changwon National University, Changwon, Gyeongnam, South Korea*
- CP-3/7 Features of magneto-optical properties of epitaxial Fe/Cr nanostructures with ultrathin Fe layers**
Lobov I.D., Kirillova M.M., Romashev L.N., Milyaev M.A., Maevskii V.M. and Ustinov V.V.
Institute of Metal Physics, Ekaterinburg, Russian Federation
- CP-3/8 Diluted Magnetic Semiconductor M_xHg_{1-x}Se as a prospective component of spin electronic devices**
 Andriychuk M.², Bondarev A.¹, Ivanchenko I.¹, Karelin S.¹, Popenko N.¹, Romanyuk V.²
¹*Usikov Institute for Radiophysics and Electronics of NAS of Ukraine, Kharkov, Ukraine*
²*Chernivtsi National University, Chernivtsi, Ukraine*
- CP-3/9 Negative Magnitoresistance Effect In Silicon Doped By Rare-Earth Elements**
 Brinkevich D.I., Lukashevich M.G., Prosolovich V.S., Yankovski Yu.N.
Belorussian State University, Minsk, Belarus

- CP-3/10** **Magnetic and electric properties of doped copper chromium spinels**
 Berzhansky V.N.*, Vlasova T.A.*, Gorbovanov A.I.*, Evstafiev I.I.*, Norden D.V.*, Aminov T.G.***, Busheva E.V.***, Shabunina G.G.**
 **V.I. Vernadsky Taurida National University, Simferopol, Ukraine*
 ***Kurnakov's Institute of General and Inorganic Chemistry RAS, Moscow, Russia*
- CP-3/11** **Exchange interactions in ferromagnetic chromium spinels at heterovalent doping**
 Berzhansky V.N., Kuzmin E.V., Sorokin Yu.V.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- CP-3/12** **Synthesis and Electrolytic Properties of sulfide ceramics Based on CaGd_2S_4 and BaSm_2S_4**
Medvedeva O.V., Yrlov I.S., Kalinina L.A., Ushakova Ju.N., Fominych H.G.
Vyatka State University, Kirov, Russia
- CP-3/13** **Magnetic exchange interactions depend on impurity ions and charge carriers in magnetic semiconductors with spinel structure**
Vinogradova G.I.^a, Veselago V.G.^a, Ansina L.V.^a, Glushkov M.V.^a, Zhukov E.G.^b, Menshchikova T.K.^b
^a*General Physics Institute of the Russian Academy of Sciences, Moscow, Russia*
^b*Institute of General and Nonorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia*
- CP-3/14** **CMR at room temperature in manganites and chromium chalcogenide spinels**
Abramovich A.I., Koroleva L.I. and Michurin A.V.
M.V. Lomonosov Moscow State University, Moscow, Russia
- CP-3/15** **Magnetic properties of solid solutions $\text{CuCr}_{1,5+x}\text{Sb}_{0,5-x}\text{S}_4\text{Se}_y$**
Aminov T.G., Shabunina G.G., Busheva E.V., Arshakuni A.A.
Kurnakov's Institute of General and Inorganic Chemistry RAS, Moscow, Russia
- CP-3/16** **Magnetic anisotropy of diluted nickel ferrite $\text{NiGa}_{0.7}\text{Al}_{0.7}\text{Fe}_{0.6}\text{O}_4$ with frustrated magnetic structure**
Antoshina L.G., Koz'min A.S.
Faculty of Physics, M.V. Lomonosov Moscow State University, Lenin Hills, Moscow, Russia
- CP-3/17** **An anomalous behavior of the dielectric permittivity ϵ of ferrite-chromate NiFeCrO_4 in the vicinity of compensation temperature**
Antoshina L.G., Evstafyeva E.N.
Faculty of Physics, M. V. Lomonosov Moscow State University, Lenin Hills, Moscow, Russia

- CP-3/18 Evolution of structure and magnetoresistive properties of Fe/Cr superlattices due to the Fe layers formation**
 Ustinov V.V.¹, Romashev L.N.¹, Loginov B.A.², Grigorov I.G.¹, Milyaev M.A.¹, Krinitsina T.P.¹
¹*Institute of Metal Physics UD RAS, Ekaterinburg, Russia*
²*Institute of Theoretical and Experimental Physics SSC of RF, Moscow, Russia*
- CP-3/19 Change of magnetic state and resistivity of "self-doped" manganites**
 Doroshev V.D., Borodin V.A., Kamenev V.I., Tarasenko T.N., Mazur A.S.
Donetsk Physics and Technology Institute, National Academy of Science of Ukraine, Donetsk, Ukraine
- CP-3/20 Electric and magnetoresistance properties of $\text{La}_{0.7}\text{Ca}_{0.3-x}\text{Na}_x\text{MnO}_3$ manganites**
Tovstolytkin A.I.¹, Pogorily A.N.¹, Yanchevskii O.Z.², Belous A.G.²
¹*Institute of Magnetism, Kyiv, Ukraine*,
²*Institute of General and Inorganic Chemistry, Kyiv, Ukraine*
- CP-3/21 Phase transitions and properties of nanostructural magnetoresistive ceramics $\text{La}_{0.6-x}\text{Sr}_{0.2}\text{Mn}_{1.2-x}\text{B}_x\text{O}_{3\pm\delta}$ (B=Cr, Fe)**
 Pashchenko V.P.¹, Shemyakov A.A.¹, Pashchenko A.V.¹, Prokopenko V.K.¹, Revenko Yu.F.¹, Turchenko V.A.¹, Bogacheva G.N.¹, Dyakonov V.P.^{1,2}, Szymczak H.²
¹*Donetsk Physics and Technology Institute named after A.A.Galkin, NASU*
²*Institute of Physics, PAS (Warsaw)*
- CP-3/22 Evolution of magnetic, transport, and optical properties of $\text{CaMnO}_{3-\delta}$ single crystals under doping by La ($x \leq 0.12$)**
Loshkareva N.N.¹, Korolyov A.V.¹, Solin N.I.¹, Mostovshchikova E.V.¹, Sukhorukov Yu.P.¹, Naumov S.V.¹, Balbashov A.M.²
¹*Institute of Metal Physics, Ural Division of RAS, Ekaterinburg, Russia*
²*Moscow Power Institute, Moscow, Russia*
- CP-3/23 Magnetic susceptibility and electrical conductivity of solid solutions of lanthanum, neodymium $\text{La}_{1-x}\text{Nd}_x\text{CoO}_3$ cobaltites**
Kurhan S.V., Bashkirau L.A., Petrov G.S., Yanushkevich K.I.
Belarus State Technological University, Minsk, Belarus
- CP-3/24 Surface Separation and a Charge State of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$**
 Konstantinova T.E., Krivoruchko V.N., Doroshev V.D., Shatalova G.E., Danilenko I.A., Volkova G.K., ¹Stupak V.A., ²Korduban A.M.
The Donetsk A.A.Galkin Institute of Physics and Technology of the NAS of Ukraine
Donetsk National University, Donetsk Ukraine

- CP-3/25** **Discovery of “pyromagnetic” effect in materials with colossal magnetoresistance**
Khirnyi V.F., Kozlovskii A.A.
*Scientific and Technical Complex “Institute for Single Crystals”
 Institute for Single Crystals, Kharkov, Ukraine.*
- CP-3/26** **Transport characteristic of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ with inclusion of silver**
 Boichenko D., Vasil'ev S., D'yachenko V., Perekrestov B., Sidorov S., Tarenkov V.
Donetsk institute of Physics and Engineering named after A.A. Galkin of National Academy of Sciences of Ukraine, Donetsk, Ukraine
- CP-3/27** **Magnetic resonance of superparamagnetic $(\text{LaSr})\text{MnO}_3$ nanoparticles**
 Krivoruchko V.N., Marchenko A.I.^{*}, Prokhorov A.A., Danilenko I.A.
Donetsk Physics & Technology Institute NASU, Donetsk, Ukraine
^{*}*Luhansk Taras Shevchenko NPU, Luhansk, Ukraine*
- CP-3/28** **Magnetoresistance in nanosized $\text{Nd}_{0.70}\text{Ba}_{0.30}\text{MnO}_3$ manganite**
Trukhanov S.V.¹, Troyanchuk I.O.¹, Szymczak H.²
¹*Institute of Solids and Semiconductor Physics, Minsk, Belarus*
²*Institute of Physics, Polish academy of sciences, Warsaw, Poland*
- CP-3/29** **Elastic and kinetic properties of $\text{La}_{0.85}\text{Ba}_{0.15}\text{MnO}_3$ single crystal**
Zainullina R.I., Bebenin N.G., Chusheva N.S., Ustinov V.V.
Institute of Metal Physics, UD RAS, Ekaterinburg, Russia
- CP-3/30** **Manganite lanthanum nanopowders, mezo- and nanostructural ceramics and film of colossal magnetoresistance**
Pashchenko V.P., Shemyakov A.A., Pashchenko A.V., Prokopenko V.K., Revenko Yu.F., Varyukhin V.N., Tovstolytkin A.I.^{*}, Kisel N.G., Sycheva V.Ya., Ignatyeva E.V.
Donetsk Physics and Technology Institute named after A.A.Galkin, NASU.
^{*}*Institut of Magnetism NAS Ukr., Kyiv.*
- CP-3/31** **Hyperfine interactions in charge ordering manganites**
Agzamova P.A., Leskova J.V.₁, Nikiforov A.E., Gontchar L.E.
Ural State University, Russia
- CP-3/32** **Regularities of elasto–anisotropically deforming stresses in normal and anomalous hysteresis in magnet–containing media**
Polyakov P.I.^{a*}, Kucherenko S.S.^b, Budko O.V.^c
^a*Mining Processes Physics Institute of the National Academy of Sciences of Ukraine, Donetsk, Ukraine*

- CP-3/33** **Synthesis of solid solutions $\text{La}_{1-x}\text{Me}_x\text{MnO}_3$ (Me : Ca, Sr, Pb) by using sol-gel method**
Shitchkova T., Emello G., Bashkirov L.
Belarusian State Technology University, Belarus, Minsk, Belarus
- CP-3/34** **Electrical and magnetic properties of the $\text{La}_{1-x}\text{Ag}_y\text{MnO}_3$ recrystallized ceramic**
Melnikov O.V.¹, Gorbenko O.Yu.¹, Kaul A.R.¹, Aliev A.M.²,
 Gamzatov A.G.², Abdulvagidov Sh.B.², Batdalov A.B.²,
 Demin R.V.³, Koroleva L.I.³
¹- *Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
²-*Institute of Physics, Dagestan Research Center, Mahachkakala, Russia*
³- *Physics Department, Lomonosov Moscow State University, Moscow, Russia*
- CP-3/35** **Effect of A-site cation substitution on magnetic and magneto-transport properties of $(\text{La}_{1-x}\text{Eu}_x)_{0.7}\text{Pb}_{0.3}\text{MnO}_3$ single crystals**
Volkov N.¹, Patrin K.¹, Petrakovskii G.¹, Böni P.²,
 Clementyev E.², Sablina K.¹, Velikanov D.
¹*L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia;*
²*Physics-Department E21, Technical University of Munich, Garching, Germany*
- CP-3/36** **The features of thermal oxidation of GaAs under the influence previously divided compositions ($\text{PbO}+\text{V}_2\text{O}_5$) on air and in oxygen environment**
 Mittova I.Ya., Kostrukov V.F., Skorohodova S.M.,
Medvedeva K.M., Kolyadinceva L.V.
Voronezh State University, Voronezh, Russia

Thursday, October 6

9.00-13.30

Oral Session DA.

Section 9. Nanophysics & Nanotechnologies for Functional Materials I

Chairmen: Sang-Hee Cho, Fraerman A.A.

- DA-L1** **Probing microscopic magnetic dots and their periodic arrays with macroscopic ferromagnetic resonance spectrometer (invited)**
Kakazei G.N.^{1,2}, Wigen P.E.², Golub V.O.¹
¹*Institute of Magnetism, National Academy of Sciences of Ukraine, Kiev, Ukraine*
²*Department of Physics, Ohio State University, Columbus, USA*

- DA-9/1** **Chemical synthesis of Nanocrystalline Ni-Zn Ferrites and Their Magnetic Characteristics**
 Lee Jong-Chul¹, Caruntu Daniela², Lee Joon-Hyung¹,
 Kim Jeong-Joo¹, Cushing Brian², Golub Vladimir², Cho Sang-Hee^{2*}, O'Connor Charles J.²
¹*Department of Inorganic Materials Engineering, Kyungpook National University, Daegu, Korea*
²*Advanced Materials Research Institute (AMRI), University of New Orleans, New Orleans, USA*
- DA-9/2** **Determination of the physical properties of the bimetallic nanoparticles while their formation**
Belotelov V.I.,^{****} Carotenuto G. ^{*}, Pepe G. ^{**}, Perlo P. ^{***},
Zvezdin A.K.
M.V. Lomonosov Moscow State University, Faculty of Physics, Leninskie gori, Moscow, Russia,
^{*}*Italian National Research Council, Naples, Naples, Italy*
^{**}*Università di Napoli "Federico II", Dip. Scienze Fisiche, Naples, Italy*
^{***}*Fiat Research Center, Orbassano, Italy*
^{****}*General Physics Institute, RAS, Moscow, Russia*
- DA-9/3** **Magnetic force microscopy of cobalt nanoparticles: MFM tip induced remagnetization effects**
Mironov V.L., Gribkov B.A., Fraerman A.A., Gusev S.A.,
 Vdovichev S.N.
Institute for physics of microstructures RAS, Nizhny Novgorod, Russia
- DA-9/4** **Magnetic properties of micron size magnetic strips array**
 Butko A.V., Filimonov Yu.A., Kozhevnikov A.V., Veselov A.G.,
 Vysotsky S.L.
Institute of Radioengineering & Electronics, Saratov department
- DA-9/5** **Tuneable bistability in a 3D spin crossover functional materials**
Levchenko G.G.¹, Varyukhin V.N.¹, Bukin G.V.¹, Khristov A.V.¹,
 Carmen Muñoz M.², Galet Ana², Belén Gaspar Ana³,
 Antonio Real José³
¹*Donetsk Physico-Technical Institute, NAS of Ukraine, Donetsk, Ukraine,*
²*Departament de Física Aplicada, Universitat Politècnica de València. Camino de Vera s/n, València, Spain.*
³*Institut de Ciència Molecular/Departament de Química Inorgànica, Universitat de València, Burjassot (València), Spain.*

- DA-9/6 Metal-filled nanocomposites based on polymers**
Dotsenko I.P.¹, Yurkov G.Yu.¹, Ponomarenko A.T.²,
 Shevchenko V.G.², Gubin S.P.¹
¹*N.S. Kurnakov Institute of General and Inorganic Chemistry RAS,
 Moscow, Russia*
²*N.S. Enikolopov Institute of Synthetic Polymeric Materials RAS,
 Moscow, Russia*
- DA-9/7 Power structure of macromolecules and nanostructure**
 Kustov E.F., Petrushko I.M., Petrushko M.I.
The Moscow Power institute, Moscow, Russia
- DA-9/8 Peculiarities of electronic structure of nanocrystalline CuO and Cu₂O copper oxides**
Gizhevskii B.A.¹, Sukhorukov Yu.P.¹, Loshkareva N.N.¹,
 Mostovshchikova E.V.¹, Yermakov A.E.¹, Kozlov E.A.²
¹*Institute of Metal Physics, Ural Division of RAS, Ekaterinburg,
 Russia*
²*Russian Federal Nuclear Center - Institute of Technical Physics,
 Snezhinsk, Russia*
- DA-9/9 Magnetic properties and nanostructured characteristics of the thin composite films (Co₄₅Fe₄₅Zr₁₀)_x(Al₂O₃)_{1-x}**
Kotov L.N.¹, Turkov V.K.¹, Tropnikov E.M.¹, Kalinin Yu.E.²,
 Sitnikov A.V.²
 1. *Syktvykar State University, Syktvykar, Russia*
 2. *Voronezh State Technical University, Voronezh, Russia*
- DA-9/10 Electron-beam induced amorphous to crystalline transition in thin oxide films, prepared by pulse laser evaporation**
Bagmut A.G.¹, Grigorov S.N.¹, Zhuchkov V.A.¹, Kolosov V.Yu.²,
 Kosevich V.M.¹, Melnichenko D.V.¹, Nikolaychuk G.P.¹
¹*National Technical University "KhPI", Kharkiv, Ukraine*
²*Ural State Economic University, Ekaterinburg, Russia*
- DA-9/11 Formation of light-induced structures in a thin magnetic-fluid layer**
 Kabanov V.V., Kitsak A.I., Kutavichus V.P.
*B.I. Stepanov Institute of Physics, National Academy of Science of
 Belarus, Minsk, Belarus*

Section 9. Nanophysics & Nanotechnologies for Functional Materials II**Chairmen: Aminov T.G., Surovtsev Igor S.**

- DP-9/1** **Researches of a surface layer of semiconductors by a modulation spectroscopy method of electroreflecture**
Gentsar P.O., Vlasenko O.I., Lysy I.V.
V.Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine
- DP-9/2** **Growth kinetics of nanosized rare earth orthophosphates Y, Lu and their solid solutions**
Osipov A.V., Drozdova I.A., Mezentseva L.P., Gusarov V.V.
Institute of Silicate Chemistry of Russian Academy of Sciences, Saint-Petersburg, Russia
- DP-9/3** **Optoelectronics properties of hydrogenated amorphous films**
Mazinov A.S., Karavainikov A.V., Bykov M.A., Lisovets E.V.
Tavrida national university, physical faculty
- DP-9/4** **The local charge carrier interaction with a crystal lattice defect in CdHgTe solid solution**
Malyk O.P.
Semiconductor Electronics Department, Lviv Polytechnic National University, Lviv, Ukraine
- DP-9/5** **Long-lived charge-separated states in MEH-PPV/(Pt_{0,75}C₆₀)_n donor-acceptor blends**
Bakulin A.A.¹, Elizarov S.G.¹, Paraschuk D.Yu.¹,
Novikov Yu.N.², Tsikalova M.V.², Arnautov S.A.³ and
Nechvolodova E.M.³
¹*International Laser Center, Moscow State University, Moscow, Russia*
²*Institute of Organoelement Compounds, RAS, Moscow, Russia*
³*Institute of Chemical Physics, RAS, Moscow, Russia*
- DP-9/6** **The crystal structure of the alloyed fullerene films with the radiation damages**
¹Dmytrenko O.P., ¹Kulich N.P., ²Prylutsky Yu.I.,
³Rodionova T.V., ¹Grabovskiy Yu.E., ¹Poroshin V.G.,
¹Pavlenko E.L., ⁴Shlapatskaya V.V., ⁵Scharff P.
Kyiv National Shevchenko University, Department of Physics¹, Biophysics² and Radiophysics³, Kyiv, Ukraine
⁴*Institute for Problems of Materials Science, Kyiv, Ukraine*
⁵*Institute of Physics, TU Ilmenau, Ilmenau, Germany*

- DP-9/7 Energetic crystal chemistry of II-IV-V₂ chalcopyrites**
Sanygin V.P., Bojchuk S.V., Aminov T.G., Ivanov V.A.,
Novotortsev V.M.
*RAS Kurnakov Institute of General & Inorganic Chemistry, Moscow,
Russia*
- DP-9/8 Crystal-chemical aspect of II-IV-V₂ chalcopyrite glasses**
Shabunina G.G., Sanygin V.P., Ivanov V.A., Novotortsev V.M.
*RAS Kurnakov Institute of General & Inorganic Chemistry, Moscow,
Russia.*
- DP-9/9 Creation of field-effect transistors buffer structures with Schottky barrier using the method of chloride epitaxy**
Voronin V.O., Guba S.K., Kurilo I.V.
National University "Lviv Polytechnics", Lviv, Ukraine
- DP-9/10 Electromagnetic shielding effectiveness of carbon based materials**
Vovchenko Ludmila¹, Matzui Ludmila¹, Korotash Igor²
¹*Kyiv National Shevchenko University, Physical department, Kyiv,
Ukraine*
²*G. V. Kurdyumov Institute for Metal Physics of the NAS of Ukraine,
Kyiv, Ukraine*
- DP-9/11 Formation of special grain boundary joints in polysilicon films**
Nakhodkin N.G.¹, Kulish N.P.¹, Lytvyn P.M.², Rodionova T.V.¹
¹*Kyiv National Taras Shevchenko University, Volodymyrska, Kyiv,
Ukraine,*
²*V.Lashkaryov Institute of Semiconductor Physics of National
Academy of Sciences of Ukraine, Kyiv, Ukraine*
- DP-9/12 Influence of magnetic field on photocurrent of silicon-porous silicon heterostructures**
Kozinetz A.V., Nichiporuk O.I., Vlasenko N.M., Kisluk V.V.,
Skryshevsky V.A.
*Radiophysics Department, Kiev National Taras Shevchenko
University, Kiev, Ukraine*
- DP-9/13 L deposition of conductive insulating films at the MOCVD of va group alkoxides**
Ponomareva N.I.
Voronezh State Medical Academy after N.N.Burdenko
- DP-9/14 The absolute hardness value simulation of nanocomposite thin films**
Nakonechna O., Vojta A.
*Department of Physics, Taras Shevchenko national Kyiv university,
Kyiv, Ukraine*

- DP-9/15 Mechanisms of electrical and magnetic conductivity in carbon nanomaterials with different structural and phase composition**
Len T.¹, Ovsienko I.¹, Matzui L.¹, Prylutsky Yu.², Prylutsky E.³
*Kyiv National Taras Shevchenko University, Departments of Physics¹ and Biology²,
 Institute for Problems of Materials Science of NAS of Ukraine³.*
- DP-9/16 Carbon nanotubes – metal nanocomposites. Microstructure and transport properties**
Ovsienko I.¹, Len T.¹, Matzui L.¹, Zakharenko M.¹, Golub O.², Brusilovetz A.²
Kyiv National Taras Shevchenko University, Departments of Physics¹ and Chemistry²
- DP-9/17 Optical properties of CdSe nanocrystals grown in solution**
 Bacherikov Y.Y.¹, Romanyuk V.R.¹, Dmitruk I.M.², Davydenko M.O.²
¹*Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine*
²*Physics Faculty, Experimental Physics Department, Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
- DP-9/18 SiC-surface reconstruction under laser stimulated process of nanotips formation**
 Fedorenko L.L.¹, Lytvyn P.M.¹, Medvid' A.P.², Yusupov M.M.¹
¹*V. Lashkaryov Institute of Semiconductor Physics National Academy of Science of Ukraine, Kiev, Ukraine*
²*Riga Technical University, Riga, Latvia*
- DP-9/19 Synthetic nanosized fillers for the polymer-inorganic nanocomposites**
Golubeva O.Yu., Korytkova E.N. & Gusarov V.V.
Institute of Silicate Chemistry of the Russian Academy of Sciences, St.-Petersburg, Russia
- DP-9/20 Assembling MoS₂-based photosensitive organic-inorganic nanocomposites via exfoliation-restaking technique**
Golub A.S.¹, Lenenko N.D.¹, Novikov Yu.N.¹, Rumyantsev B.M.², Zhuravleva T.S.², Bibikov S.B.²
¹*Nesmeyanov Institute Of Organoelement Compounds, Russian Academy Of Sciences, Moscow, Russia*
²*Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Moscow, Russia*
- DP-9/21 Educational-scientific outfit for investigation of physical properties of semiconductive materials and nanostructures**
Karpovich I.A., Odzhaev V.B., Yankovsky O.N.
Belorussian State University, Minsk, Belarus
- DP-9/22 Nanoshells SiO₂/Au: formation and optical properties**
 Tolmachev A.V., Matveevskaya N.A., Savin Y.N.
Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine,

- DP-9/23 Scanning tunneling microscopy study of hard alloys microstructure**
Grigorov I.G., Ermakov A.N., Ermakova O.N., Pushin V.G.* ,
 Zainulin Yu.G.
Institute of Solid State Chemistry, Ural Division of Russian Academy of Sciences,
 **Institute of Metal Physics, Ural Division of Russian Academy of Sciences*
- DP-9/24 Formation and properties of nanocrystalline films of FAP obtained from aqueous solutions in precritical supersaturation range**
Doroshenko A.G., Kryzhanovskaya A.S., Babayevskaya N.V.,
 Savin Yu.N., Tolmachev A.V.
Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine
- DP-9/25 Anatase Nanostructured Coatings: Sol-Gel Synthesis and Application for the Organic Dyes Decomposition and Photoreduction of Metal Ions from Aqueous Solutions**
Petrik I.S., Smirnova N.P., Eremenko A.M.
Institute of Surface Chemistry of NASU, Kiev, Ukraine,
- DP-9/26 The thermodynamic modeling for lpe growth processes of $Cd_xHg_{1-x}Te$ layers for optoelectronic devices**
 Moskvina P.P.
Zhitomir State Technological University, Zhitomir, Ukraine
- DP-9/27 The PMF Influence on the $LaBGeO_5$ -Glass Crystallization**
 Konstantinova T.E., Doroshkevich A.S., Glazunova V.A.,
 Perekrestova L.D., Volkova G.K.
The Donetsk A.A.Galkin Institute of Physics and Technology of the NAS of Ukraine, Donetsk
- DP-9/28 Electroconductivity of Langmuir-Blodgett films of tetrasubstituted metal-phthalocyanines and influence of magnetic field on their conducting properties**
 Kazantseva Z.¹, Kozyarevych I.², Lozovski V.^{1,2}, Pokyd'ko O.²,
 Tretyak O.²
¹*Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine;*
²*Radiophysical Faculty, Kyiv Taras Shevchenko National University, Kyiv, Ukraine*
- DP-9/29 A Study on the Preparation of Nano-Crystalline Barium Titanate Powder by a Sol-gel Method**
 Azadmanjiri J.^{1*}, Dehghan Hamedan A.², Salehani H.K.³
^{1,3}*Faculty of Engineering, Damavand Islamic Azad University, Damavand, Iran,*
^{2,4}*Faculty of Mechanical Engineering, KNT University, Tehran, Iran*

**Section 11. Instrumentation and Measurement
Technique****Chairmen: Vorobyev M.D., Baisa D.F.**

- DQ-11/1 The electrofluctuation investigation methods of materials and structures quality**
Vorobyev M.D., Judaev D.N.
MPEI, Moscow, Russia
- DQ-11/2 Pulse Magnetostrictional Excitation of Acoustic Resonance**
Berzhansky V.N., Polulyakh S.N., Rudenko V.V.
Taurida National University, Simferopol, Ukraine
- DQ-11/3 Spin Echo from ^{57}Fe Nuclei in YIG Films**
Berzhansky V.N., Tupitsin Yu.V., Polulyakh S.N.
Taurida National University, Simferopol, Ukraine
- DQ-11/4 The NMR lineshape in multiparticle systems**
Ryabushkin D.S., Sapiga A.V., Serov K.A.
Faculty of Physics, Tavrida National University, Crimea, Ukraine
- DQ-11/5 Investigation of molecular mobility in natrolite “nanotube” by solid-echo method**
Levchenko D.A.* , Sapiga A.V.* , Sergeev N.A.**
* *Faculty of Physics, Tavrida National University, Crimea, Ukraine*
** *Institute of Physics, University of Szczecin, Poland*
- DQ-11/6 Orientation order and NMR relaxation in ferroelectric liquid crystal**
Baisa D.F.^a, Chesnokov E.D.^{a,b}, Ovcharenko A.I.^b,
Pogrebnyak S.V.^b, Vertegel I.G.^b
^a) *Kyiv Institute of Management and Information Technologies, Kyiv, Ukraine,*
^b) *Institute of Physics of the National Academy of Sciences, Kyiv, Ukraine*
- DQ-11/7 Investigations of the Hydrogen Bond Dynamics in the $\text{NH}_4\text{IO}_3 \cdot 2\text{HIO}_3$ Crystal by NQR Methods**
Baisa D.F.^a, Barabash A.I.^{b,c}, Vertegel I.G.^b, Chesnokov E.D.^{a,b},
Ovcharenko A.I.^b
^a) *Kyiv Institute of Management and Information Technologies, Kyiv, Ukraine,*
^b) *Institute of Physics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine,*
^c) *Kyiv University of Economics and Technologies of Transport*
- DQ-11/8 Dipolar correlation function and molecular motions into fluctuated potential barrier**
Olszewski M.¹⁾, Sapiga A.V.²⁾, Sergeev N.A.¹⁾
¹⁾ *Institute of Physics, University of Szczecin, Szczecin, Poland*

²⁾*Faculty of Physics, Tavrida National University, Simferopol, Ukraine*

- DQ-11/9 NMR magic echoes in solids with thermal motions**
 Bilski P.¹⁾, Olszewski M.²⁾, Sergeev N.A.²⁾, Wąsicki J.¹⁾
¹⁾*Faculty of Physics, A.Mickiewicz University, Poznań, Poland*
²⁾*Institute of Physics, University of Szczecin, Szczecin, Poland*
- DQ-11/10 Single domain HTSC superconductors for magnetic applications**
Poluschenko O., Nizhelskiy N., Matveev V.
Bauman Moscow State Technical University, Moscow, Russia
- DQ-11/11 A precision device for the electrical measurements in dielectric materials**
 Levchenko D.A., Yevdokimov S.V., Yatsenko A.V.
Taurida National University, Yaltinskaya 4, Simferopol, Ukraine
- DQ-11/12 Interpretation of Influence of Magnetic Nuclei Concentration on Longitudinal Relaxation in YIG**
 Polulyakh S.N.¹, Sergeev N.A.²
¹ *Taurida National University, Simferopol, Ukraine*
² *Institute of Physics, University of Szczecin, Szczecin, Poland*
- DQ-11/13 ⁵³Cr NMR in CrO₂**
 Berzhansky V.N., Gorbovanov A.I., Polulyakh S.N.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine

15.00-19.00

Oral Session DB.

Section 9. Nanophysics&Nanotechnologies for Functional Materials II

Chairmen: Valakh M.Ya., Veselago V.G.

- DB-L1 Self-induced formation and spatial ordering of semiconductor nanostructures with quantum dots and wires (invited)**
 Strelchuk V.V., Yukhymchuk V.O., Lytvyn P.M., Valakh M.Ya.
V. Lashkaryov Institute of semiconductor physics, National Academy of Science of Ukraine, Kiev
- DB-L2 Nano-Sized Effects in the Nano-Particle Properties (invited)**
 Konstantinova T.E.
The Donetsk A.A.Galkin Institute of Physics and Technology of the NASU, Donetsk, Ukraine
- DB-9/1 Particulate study on synthesis silica nanoparticles via sol-gel**
Shokuhfar A.¹, Tabatabaei S.¹, Babazadeh Roya²
¹-*K.N.Toosi, University of Technology, Tehran, Iran*
²- *Color Research Center, Tehran, Iran*

- DB-9/2** **The solubility limits of indium impurity atoms in PbTe<In> thin films on Si substrates**
Samoylov Alexander M.¹, Agapov Boris L.¹,
 Khoviv Alexander M.¹, Synorov Yury V.²
¹*Voronezh State University, Voronezh, Russian Federation,*
²*Voronezh State Academy of Technology, Voronezh, Russian Federation*
- DB-9/3** **Birefringence and dichroism in nanostructured silicon**
Efimova A.I., Fomin M.A., Krutkova E.Yu., Golovan L.A.,
 Timoshenko V.Yu.
Moscow State Lomonosov University, Physics Department, Moscow, Russia
- DB-9/4** **Third-harmonic generation from silicon surfaces structured by femtosecond laser pulses**
Zabotnov S.V., Ostapenko I.A., Golovan L.A.,
 Timoshenko V.Yu., Kashkarov P.K., Shandybina G.D.*
Physics Department, M.V. Lomonosov Moscow State University, Moscow, Russia
 **Saint-Petersburg State University of Information Technologies, Mechanics and Optics, Saint-Petersburg, Russia*
- DB-9/5** **Electrical properties of PbTe<Ga>/Si films, prepared by two different techniques**
 Samoylov Alexander M.¹, Belenko Sergey V.¹,
Surovtsev Igor S.²
¹*Voronezh State University, Voronezh, Russian Federation,*
²*Voronezh State University of Architecture and Civil Engineering, Voronezh, Russian Federation*
- DB-9/6** **The Investigation Of The Electrical Properties Of Nanoceramic Materials Based On ZrO₂**
Artamonova O.V.¹, Lavrushina S.S.², Gusarov V.V.³
¹*Voronezh State University of Architecture and Civil Engineering, Voronezh, Russia*
²*Voronezh State University, Voronezh, Russia*
³*Institute of Silicate Chemistry RAS, Saint-Petersburg, Russia*

15.00-19.00**Poster Session DR.****Section 9. Nanophysics & Nanotechnologies for Functional Materials I****Chairmen: Pogorelov Yu.G., Morosov A.I.**

- DR-9/1** **Nanolithography and study of magnetic structures**
 Fraerman A.A., Gribkov B.A., Gusev S.A., Klimov A.Y.,
 Nozdrin Y.N., Polushkin N.I., Vdovichev S.N.
Institute for Physics of Microstructures RAS, Nizhny Novgorod, Russia

- DR-9/2 Characterization of single molecular magnet MN12 based on the nonlinear susceptibility investigations**
¹Barbara B., ²Plokhov D.I., ²Ryabova O.S., ²Sayko G.V.,
³Tsindlekht M.I., ³Leviev G.I., ³Felner I., ²Zvezdin A.K.
¹Laboratoire Louis Neel, Grenoble, France
²A.M. Prokhorov General Physics Institute of RAS, Moscow, Russia
³The Racah Institute of Physics, the Hebrew University of Jerusalem, Jerusalem, Israel
- DR-9/3 Effect of Cu on the Electromagnetic Properties of NiFe₂O₄ Nanoparticles Prepared by Sol-gel auto Combustion Method**
Karami H.¹, Azadmanjiri J.^{2*}, Salehani H.K.³, Barati M.R.⁴,
Dehghan Hamedan A.⁵
^{1,3}Islamic Azad University- Varamin Branch- Varamin, Iran
^{2,3}Islamic Azad University- Damavand Branch- Damavand, Iran
^{2,4}Center of Excellence in Magnetic Materials, Faculty of Engineering, Department Metallurgy and Materials, University of Tehran, Tehran, Iran
⁵Faculty of Mechanical Engineering, KNT University, Tehran, Iran
- DR-9/4 Magnet controllable magnetite – dextran nanoparticles**
Semko L.S., Gorbik P.P., Storozhuk L.P., Dubrovin I.V.,
Chuiko A.A.
Institute of Surface Chemistry, National Academy of Science of Ukraine, Kyiv, Ukraine
- DR-9/5 Investigation of correlations of magnetic state of nanocrystals and their surface with interparticle interaction**
Ol'khovik L.P., Dubinko S.V.^{*}, Sizova Z.I., Shurinova E.V.
V.N. Karazin Kharkov National University, Kharkov, Ukraine
^{*}V.I. Vernadski Tavricheski National University, Simpheropol, Ukraine
- DR-9/6 Magnetic-resonance properties of heterostructures nucleus-shell MnO₂@PSS-PAH/Ni**
Azarko I.I.¹, Adakimchik A.V.¹, Kozlova E.I.¹, Fedutik Yu.A.²,
Shevchenko G.P.²
¹Belorussian State University, Minsk, Belarus
²Research Institute for Physical Chemical Problems of BSU, Minsk, Belarus
- DR-9/7 Percolation threshold in structured nanocomposites MnO₂@PSS-PAH/Ni**
Odzhaev V.B.^{*}, Poklonski N.A.^{*}, Gorbachuk N.I.^{*},
Aleinikova D.A.^{*}, Shevchenko G.P.^{**}, Fedutik Ya.A.^{**}
^{*}Belarusian State University, Minsk, Republic of Belarus
^{**} Research Institute for Physical Chemical Problems of BSU, Minsk, Republic of Belarus

- DR-9/8** **Magnetic and Magneto-resistive Properties of Fe-filled Carbon Nanotubes**
Sohatsky V., Kolesnik S., Makarov D., Schumann J.*
Kiev University, Kiev, Ukraine;
**IFW, Dresden, Germany*
- DR-9/9** **Effect of magnetic field on electrodeposition of nano-sized structures**
Bondar E.A.¹ and Luzhbin D.A.²
¹ *Institute of Magnetism NASU., Kyiv, Ukraine.*
² *Institute for Metal Physics NASU, Kyiv, Ukraine.*
- DR-9/10** **Ni/Cu Multilayer Coatings Electrodeposition**
 Trubnikova L.V., Bayrachniy B.Y., Savchenko V.O.,
 Majzelis A.A.
*National technical University "Kharkov Politechnical Institute",
 Kharkov, Ukraine*
- DR-9/11** **⁶³Ni diffusion in the fullerid C₆₀**
Mazanko V.F.⁽¹⁾, Pogorelov A.E.⁽¹⁾, Kulich N.P.⁽²⁾,
Dmitrenko O.P.⁽²⁾, Lizunov V.V.⁽²⁾
⁽¹⁾ *G.V.Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kiev,
 Ukraine.*
⁽²⁾ *Kiev National Taras Shevchenko University, Kiev, Ukraine*
- DR-9/12** **Needle-Like Magnetic Clusters In Magnetic Fluid And Their Behavior In Magnetic Field**
Antonyuk O.A., Kovalenko V.F., Moldovan B.M., Petrychuk M.V.
*Taras Shevchenko Kyiv National University, Faculty of Radiophysics,
 Kyiv, Ukraine*
- DR-9/13** **Indirect exchange interaction and effective magnetic fields in magnetic nanogranular films**
Dzhezherya Yu.I., Kravets A.F., Pogorily A.N., Pilipenko N.
*Institute of Magnetism, National Academy of Sciences of Ukraine,
 Kiev, Ukraine*
- DR-9/14** **Degeneration of Magnetic States of the Order Parameter Relative to the Boundary Conditions and Discrete Energy Spectrum in Ferromagnetic and Antiferromagnetic Nanotubes**
 Gorobets O.Yu., Gorobets V.Yu.
Institute for Magnetism of NAS of Ukraine, Kiev, Ukraine
- DR-9/15** **Magnetic properties of nanosize NiFe₂O₄ particles synthesized by sol-gel autocombustion method**
Azadmanjiri J.^{1*}, Dehghan Hamedan A.², Salehani H.K.³,
Barati M.R.⁴
^{1,3} *Faculty of Engineering Damavand Islamic Azad University,
 Damavand, Iran,*
^{1,4} *Center of Excellence in Magnetic Materials, Faculty of
 Engineering, Department Metallurgy and Materials, University of
 Tehran, Tehran, Iran*

15.00-19.00**Poster Session DS.****Section 4. Electrooptic and Magneto optic Materials****Chairmen: Pavlov V.V., Lyubchanskii I.L.**

- EA-4/1 Photonic crystals with the gyrotropic constituents**
Belotelov V.I.¹, Kalish A.N.¹, Kotov V.A.², Sukhorukov A.P.¹,
 Zvezdin A.K.²
1 - M.V. Lomonosov Moscow State University, Moscow, Russia
2 - A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia
- DS-4/1 Optical properties of small dielectric crystals: spatial dispersion of permittivity near allowed excitonic transition**
 Ratner A.M.
Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine, Kharkov, Ukraine.
- DS-4/2 Disordering degree and optical properties of S120 J-aggregates**
¹Ratner M.A., ²Malyukin Yu.V., ²Grinyov B.V.
¹*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
²*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*
- DS-4/3 Glassing Porphin Derivatives as Materials for Electro-Optic Devices**
Usol'tseva N., Zharnikova N., Bykova V.
Ivanovo State University, Laboratory of liquid crystals, Ivanovo, Russia
- DS-4/4 Photoinduced magnetization reversal in spartially inhomogeneous magnetically ordered medium**
 Tychko O.V.
Taras Shevchenko Kiev National University, Radiophysics Faculty, Kyiv, Ukraine.
- DS-4/5 Photoinduced changes of magnetic anisotropy in magnetically ordered cubic crystals**
 Mozhyrovskyy M.V., Tychko O.V.
Taras Shevchenko Kiev National University, Radiophysics Faculty, Kyiv, Ukraine.
- DS-4/6 Magneto optical and Ellipsometric Characterization of Materials for Spin Electronics**
 Merkulov V.S.
Institute of Solid State and Semiconductor Physics of NASB, Minsk, Belarus

- DS-4/7** **Dependence of chiral LC helix behavior in planar layers on external field for narrow angular well surface anchoring potentials**
 Belyakov V.A.^a and Semenov S.V.^b
^a*L.D.Landau Institute for Theoretical Physics, Moscow, Russia*
^b*Russian Research Center "Kurchatov Institute", Moscow, Russia*
- DS-4/8** **Non linear electromagneto-optical effect in epitaxial yttrium-ferrite-garnet films**
 Koronovskyy V.E.
Taras Shevchenko Kiev National University, Department of Radiophysics, Kiev, Ukraine;
- DS-4/9** **Optical and Nonlinear Optical Characterization of Transitional Metal Oxides (TiO₂, Fe₂O₃, TiO₂/Fe₂O₃) Nanocomposite Thin Films**
Petrik I.S.¹, Lozenko S.A.¹, Yakunin S.V.¹, Smirnova N.P.², Eremenko A.M.², Dovbeshko G.I.¹, Mulencko S.A.³, Gayvoronsky V.Ya.¹
¹*Institute of Physics NASU, Kiev, Ukraine,*
²*Institute of Surface Chemistry NASU, Kiev, Ukraine*
³*Institute for Metal Physics NASU, Kiev, Ukraine.*
- DS-4/10** **LiNbO₃ two-beam polarization prism**
^{1,2}Savytskii D.I., ¹Buryy O.A., ^{1,2}Ubizskii S.B., ³Bismayer U., ²Solskii I.M., ²Sugak D.Yu., ⁴Shopa Y.I.
¹*Department of Semiconductor Electronics, National University Lviv Politechnic, Lviv, Ukraine,*
²*SRC "Carat", Lviv, Ukraine*
³*Min.-Petrogr. Institut, Universitat Hamburg, Hamburg, Germany*
⁴*Ivan Franko National University of Lviv, Lviv, Ukraine*
- DS-4/11** **The anomalies of the volume TM- (TE-) wave reflecture for the antiferromagnetic crystal under the external electric field**
Savchenko A.S., Tarasenko S.V.
Donetsk Physics & Technology Institute, NASU, Donetsk, Ukraine
- DS-4/12** **The influence of anionic imperfections in Y₃Fe₅O_{12-δ} monocrystals on the growth Bi_xY_{3-x}Fe₅O_{12-δ} diffusion layers special feature**
 Kalanda N.A.* , Guretskii S.A.* , Luginec A.M.* , Sobol V.R.* , Yanushkevich K.I.* , Demidenko O.F.* , Kolesova I.M.* , Kokhanovskii L.V.** , Pan'kov V.V.***
 * *Institute of Solid State Physics and Semiconductors NASB, Minsk, Belarus*
 ***Institute of General and Inorganic Chemistry NASB, Minsk, Belarus*
 ****Belarusian State University, Minsk, Belarus*

- DS-4/13** **Optical characterization of heavily-doped with Yb³⁺ ions oxide films prepared by sol – gel method**
Malashkevich G., *Nedilko S.
Institute of Molecular and Atomic Physics of BAS, Minsk, Belarus
**Kyiv National Taras Shevchenko University, Kyiv, Ukraine*
- DS-4/14** **Dopped crystals FeBO₃:Ni**
 Strugatsky M.B., Yagupov S.V., Yagupov V.S.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- DS-4/15** **New garnet crystal for a waveguide laser, operating at 1.5 μm range**
Prudnikov A.¹, Nikolaev E.¹, Peshko I.², Shalaev R.¹
¹*Donetsk Physical-Technical Institute of NASU, Ukraine;*
²*University of Toronto Optical Technology Centre, Canada;*
- DS-4/16** **Analysis of the electronic polarizability of ions in weak ferromagnetic FeBO₃ crystals**
 Strugatskii M.B., Yatsenko A.A., Yatsenko A.V.
Taurida National University, Simferopol, Ukraine
- DS-4/17** **A fiber-optic two-waveguide structure with the coupling ratios specified for two wavelengths**
 Basiladze G.D., Berzhansky V.N., Dolgov A.I.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine
- DS-4/18** **Peculiarities of the electronic band structure of Cr/Cu multilayered nanostructures and Cr_{1-x}Cu_x metastable alloy films: *ab-initio* (FLAPW) and experimental optical study**
Kudryavtsev Y.V.¹, Uvarov V.N.¹, Oksenenko V.O.¹, Gontarz R.², Lee Y.P.³ and Kim J.B.³
¹*Institute of Metal Physics, NAS of Ukraine, Kiev, Ukraine*
²*Institute of Molecular Physics, PAS, Poznań, Poland*
³*q-psi and Department of Physics, Hanyang University, Seoul, Korea*
- DS-4/19** **Limitation analysis of magnetic-optical restoration of damaged audio records**
 Agalidy U.S., Lyevery S.V., Machnyev A.M.
National Technical University "Kiev Polytechnic Institute", Kiev, Ukraine
- DS-4/20** **Efficiency improvement of correlation stitching by low frequency filtration**
 Agalidy U.S., Lyevery S.V., Machnyev A.M.
National Technical University "Kiev Polytechnic Institute", Kiev, Ukraine
- DS-4/21** **Reconstruction effects in “analog” magneto-optic imaging of magnetic fields**
 Vinogradov A.N., Vishnevski V.G., Dubinko S.V., Levy S.V.*
*Taurida national university, Simferopol and *Kiev polytechnical institute, Kiev, Ukraine*

DS-4/22 Morphological features of strained garnet films obtained by interference microscopy
Nesteruk A.G., Vishnevski V.G., Dubinko S.V., Nedviga A.N., Mikhailova H.V.

Taurida national university. Simferopol, Ukraine

DS-4/23 Light diffraction on static and dynamic fractal structures in high coercive garnet films

Mikhailova H.V., Vishnevski V.G.

Taurida national university. Simferopol, Ukraine

DS-4/24 Technology of obtaining high NA optical fiber

Tarasenko A.

Tavrida National University named after V.I. Verndaskiy

Friday, October 7

9.00-12.00

Oral Session EA.

Section 4. Electrooptic and Magneto optic materials

Chairmen: Edelman I.S., Belyaeva A.I.

EA-L1 Crystal-Generated Singular Beams Bearing Optical Vortices (invited)

Volyar Alexander V.

National Taurida V.I. Vernadsky University, Simferopol, Crimea, Ukraine

EA-L2 Magnetic nanocomposites based on borate glasses doped with Fe and Mn (invited)

Edelman I.S.

L.V. Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia

EA-L3 Synthesis of optimal multilayer periodic polyethylene - germanium systems (invited)

Belyaeva A.I., Galuza A.A., Kolomiets S.N.

National Technical University "KhPI", Kharkov, Ukraine

EA-4/2 Optical properties of the magnetic photonic crystals at the oblique light incidence

Belotelov V.I.¹, Kotov V.A.², Zvezdin A.K.², Alameh K.³, Vasiliev M.³

1 - M.V. Lomonosov Moscow State University, Moscow, Russia

2 - A.M. Prokhorov General Physics Institute, RAS, Moscow, Russia

3 - Centre of Excellence for MicroPhotonic Systems, Electron Science Research Institute, Edith Cowan University, Joondalup, WA, Australia

- EA-4/3** **Light propagation in magnetic photonic crystals: oblique incidence**
 Lyubchanskii I.L.¹, Dadoenkova N.N.¹, Lyubchanskii M.I.¹,
 Shapovalov E.A.¹, Lee Y.P.² and Rasing Th.³
¹*Donetsk Physical & Technical Institute of the National Academy of
 Sciences of Ukraine, Donetsk, Ukraine;*
²*Quantum Photonics Science Research Center and Physics
 Department, Hanyang University, Seoul, Korea;*
³*IMM Institute, Radboud University Nijmegen, Nijmegen, The
 Netherlands*
- EA-4/4** **Linear and nonlinear optical phenomena in the charge-transfer
 insulators R₂CuO₄ (R = Sm, Nd, Pr)**
 Pavlov V.V.¹, Pisarev R.V.¹, Gridnev V.N.¹, Kalashnikova A.M.¹,
 Zhukov E.A.², Yakovlev D.R.^{1,3}, Bayer M.³, and Rasing Th.⁴
¹*A. F. Ioffe Physical-Technical Institute of RAS, St. Petersburg,
 Russia*
²*Moscow State University, Moscow, Russia*
³*Experimentelle Physik II, Universität Dortmund, Dortmund,
 Germany*
⁴*IMM, University of Nijmegen, Nijmegen, the Netherlands*
- EA-4/5** **Magnetization-induced optical second- and third-harmonics'
 generation in magnetoresistive granular films**
 Aktsipetrov O.A.¹, Kim E.M.¹, Murzina N.V.¹, Pogorily A.N.²,
 Kravets A.F.²
¹*Department of Physics, Moscow State University, Moscow, Russia;*
²*Institute of Magnetism, National Academy of Sciences of Ukraine,
 Kiev, Ukraine*
- EA-4/6** **Epitaxial garnet films for lasers**
 Syvorotka I.M.¹, Ubizskii S.B.², Syvorotka I.I.¹, Izhnin I.I.¹,
 Izhnin A.I.¹, Buryy O.A.², Vakiv M.M.¹, Melnyk S.S.^{1,2}
¹*Lviv R&D Institute for Materials, Scientific Research Company
 "Carat"; Lviv, Ukraine,*
²*R&D Center "Crystal", Lviv Polytechnic National University; Lviv,
 Ukraine*
- EA-4/7** **Optical properties of sodium titanium phosphate crystals and
 glasses doped with rare earth ions**
Chukova O., Nedilko S., Boyko R., Nagornyi P., Slobodyanik M.
Kyiv National Taras Shevchenko University, Kyiv, Ukraine

12.30-14.00**Oral Session EB.****Section 10. Materials for Medical and Environmental
 Applications. Biosensors****Chairmen: Gorobets S.V., Burkov K.A.**

- EB-L1** **Influence of constant magnetic field on chemical reactions (invited)**
 Gorobets Yu.I.

- EB-10/1 Biomedical application of silicon nanocrystals: photodynamic therapy of cancer cells**
Osminkina L.A.¹, Ryabchikov Yu.V.¹, Vorontzov A.S.¹, Belogorokhov I.A.¹, Timoshenko V.Yu.¹, Kudryavtzev A.A.², Kashkarov P.K.¹
¹*Moscow State M.V. Lomonosov University, Physics Department, Moscow, Russia*
²*Institute of Theoretical and Experimental Biophysics of RAS, Pushchino, Russia*
- EB-10/2 Production of a new coagulant-adsorbent for the cleaning of the wastewaters**
 Burkov K.A., Karavan S.V., Bus'ko E.A.
St. Petersburg State University, Dept. of Chemistry, Petrodvorets, St. Petersburg, Russia
- EB-10/3 "Biocompatible hydroxyapatite coatings on medical titanium and sapphire implants"**
Savin Yu.N., Kryzhanovskaya A.S., Doroshenko A.G., Tolmachev A.V.
Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine
- EB-10/4 Development of UV-sensors based on the UV-sensitive steroid substances incorporated into cholesteric liquid crystalline matrix**
 Zavora L.N., Kasyan N.A., Panikarskaya V.D., Lisetski L.N., Terenetskaya I.P.*
Institute for Scintillation Materials STC "Institute for Single Crystals" NAS of Ukraine, Kharkov, Ukraine.
 **Institute of Physics, NAS of Ukraine, Kiev, Ukraine*

9.00-14.00**Poster Session EP.****Section 2. Hard and Soft Magnetic Materials****Chairmen: Pudonin F.A., Brekharya G.****Hard Magnetic Materials**

- EP-2/1 Theoretical and Computational Models of Magnetic Materials of New Generation for Magnetic Recording Application**
 Chubykalo Oksana¹, González Jesús M.¹, Sánchez F.García¹ and Gerasimchuk Igor V.^{1,2*}
¹*Departamento de Propiedades Ópticas, Magnéticas y de Transporte, Instituto de Ciencia de Materiales de Madrid (ICMM), CSIC, Cantoblanco, Madrid, Spain*
²*Institute for Theoretical Physics, National Scientific Center "Kharkov Institute of Physics and Technology" (NSC "KIPT"), Kharkov, Ukraine*

- EP-2/2** **BaFe₁₂O₁₉ films obtained by reaction diffusion method with assistance of the ion beam evaporation precursor**
¹Avramenko B.A., ²Pan'kov V.V., ¹Ravlik A.G., ³Stognii A.I., ⁴Yanushkevich K.I.
¹ *Polytechnical institute, Ukraine, Kharkov,*
² *Belarusian State University, Minsk, Belarus*
³ *Institute of Radiomaterials, Minsk, Belarus*
⁴ *Institute of Solid State Physics and Semiconductors of NASB, Minsk, Belarus*
- EP-2/3** **High Anisotropy Permanent Magnets As Sources Of Strong And Inhomogeneous Magnetic Fields**
 Belozorov D.P. *, Ravlik A.G., Samofalov V.N.
National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine;
 **Nat. Scient. Centre "Kharkiv Institute of Physics and Technology" NASU, Kharkiv, Ukraine*
- EP-2/4** **The influence of electromagnetic stirring on the structure of Zr-1,0 % Nb alloy ingot**
Ladokhin S.V., Chernyavsky V.B., Levitsky N.I., Gladkov A.S., Oshkaderov S.P. *, Volosevich P.Yu. *, Bepalov S.A. *
Physico-Technological Institute of Metals and Alloys NAS of Ukraine, Kiev, Ukraine
 **Institute of Metal Physic G.V.Kurdyumov NAS of Ukraine, Kiev, Ukraine*
- EP-2/5** **The heat treatment influence on structure-phase state of Nd₂₀Fe_{70-x}Cu_xC_{9,5}B_{0,5} alloys and magnets made on their bases**
Vystavkina V., Brekharya G.
Department of Materials Science, Zaporozhye National University, Zaporozhye, Ukraine
- EP-2/6** **Investigation of Copper, carbon and titanium influence on Fe₇₆Nd₁₆B₈ based permanent magnets properties**
 Brecharya G. ¹, Bovda O. ², Bovda V. ², Kharitonova E. ³
¹ *Department of Materials Science, Zaporozhye State University, Zaporozhye, Ukraine;*
² *Solid State Physic and Materials Technology Department, National Science Centre "Kharkiv Institute of Physics and Technology", Kharkov, Ukraine;*
³ *Solid State Physic Department, Dneprodzerzhinsk Technical University, Dneprodzerzhinsk, Ukraine;*

Soft Magnetic Materials.

- EP-2/7** **Investigations of short range in monocrystalles Fe – (5–6) AT.% Si with diffusive magnetic anisotropy**
 Serikov V.V.*, Kleinerman N.M.*, Ershov N.V.*, Lukshina V.A.*, Chernenkov Yu.P.**, Fedorov V.I.** and Sokolov B.K.*
 **Institute of Metal Physics, Ural Division of RAS, Yekaterinburg, Russia*
 ***Petersburg Institute of Nuclear Physics, RAS, Gatchina, Russia*
- EP-2/8** **Effect of carbon content on the structure of Fe-Zr-C magnetic films**
 Sheftel E.N.¹, Shalimova A.V.² and Usmanova G.Sh.¹
¹*Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Russia, Moscow,*
²*Bardin General Research Institute for the Iron and Steel Industry, Russia, Moscow*
- EP-2/9** **Magnetic properties, its thermal stability and structure of nanocrystalline alloys FeCuNbSiB with stress-induced magnetic anisotropy**
Lukshina V.A., Serikov V.V., Kleinerman N.M., Volkova E.G., Dmitrieva N.V. and Potapov A.P.
Institute of Metal Physics, Ural Division of RAS, Yekaterinburg, Russia
- EP-2/10** **Effect of Alloying with Mn and Co on the Amplitude Dependence of Internal Friction and Young's Module in Fe-Ni and Fe-Ni-C alloys**
 Nadutov V.M., Golub T.V., Hymenyuk O.V.
G.V. Kurdyumov Institute for Metal Physics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
- EP-2/11** **Hyperfine structure of Fe-C-based powders synthesised by power ultrasonics**
 Nadutov V.M., Mordyuk B.N., Volosevich P.Yu., Svystunov Ye.O.
G.V. Kurdyumov Institute for Metal Physics of the N.A.S. of Ukraine, Kyiv, Ukraine
- EP-2/12** **The effect of ultrasonic impact treatment on state of solid solution and properties of the FCC Fe–Ni–C alloys**
 Nadutov V.M., Semenov D.V., Zaporozhets O.I., Svystunov Ye.O., Dordienko N.G.
G.V. Kurdyumov Institute for Metal Physics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine

- EP-2/13 Study of cyclic plasticity and elastic modulus of invar Fe–Ni–C-based alloys**
 Nadutov V.M.¹, Vogt J.-B.², Semenov D.V.¹, Verleene A.², Zaporozhets O.I.¹
¹ *G.V. Kurdyumov Institute for Metal Physics of the National Academy of Sciences of Ukraine, Kyiv, UA*
² *Laboratory of Physical Metallurgy and Material Engineering at the Lille University, France.*
- EP-2/14 Domain structure of amorphous magnetic microwires studied by using magneto-optical indicator film method**
Kabanov Yu.^{1,2}, Zhukov A.¹, Zhukova V.³, Gonzalez J.¹
¹ *Institute of Solid State Physics, RAS, Russia*
² *Universidad del Pais Vasco, San Sebastian, Spain*
³ *TAMAG Ibérica S.L., Parque Tecnológico de Miramón, San Sebastián, Spain*
- EP-2/15 Peculiarities of pair atomic interactions in Ni–Mo alloys**
^{1*} Bokoch S.M., ¹ Kulish M.P., ^{1,2} Tatarenko V.A.
¹ *Taras Shevchenko Kyiv National University, Kyiv, Ukraine*
² *G.V. Kurdyumov Institute for Metal Physics, N.A.S.U., Kyiv, Ukraine*
- EP-2/16 Local atomic arrangement in Ni–9 at.% Al solid solution in annealed state**
^{1*} Bokoch S.M., ¹ Kulish M.P., ¹ Ryashko V.V., ^{1,2} Tatarenko V.A.
¹ *Taras Shevchenko Kyiv National University, Kyiv, Ukraine*
² *G.V. Kurdyumov Institute for Metal Physics, N.A.S.U., Kyiv, Ukraine*
- EP-2/17 The influence of 3d impurities on the electronic structure of chromium**
 Babich M.G., Plyushchay I.V., Zakharenko M.I.
Department of Physics, Taras Shevchenko University, Kyiv, Ukraine
- EP-2/18 Transport properties of the Co-Si-B metallic glasses Doped by iron and chromium**
 Babich M., Danylenko M.*, Eremenko G., Nosenko A., Semen'ko M., Zakharenko M.
Department of Physics, Taras Shevchenko University, Kyiv, Ukraine
 **Institute for Material Science NASU, Kyiv, Ukraine*
- EP-2/19 Physical background of activated sintering of functional powders materials with direct electric contact heating**
Andrushchik L.O., Oschkaderov S.P.
Institute for Metal Physics G.V.Kurdyumov National Academy of Sciences of Ukraine, Kyiv, Ukraine

Section 2. Soft and Hard Magnetic Materials**Chairmen: Nadutov V.M., Ravlik A.G.****15.00 -16.30**

- EC-L1** **Hyperfine magnetic structure and magnetic properties of invar Fe-Ni-C-based alloys** (invited)
Nadutov V.M., Svystunov Ye.O., Kosintsev S.G.,
 Tatarsenko V.A.
G.V. Kurdyumov Institute for Metal Physics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
- EC-L2** **Local atomic and magnetic structure of Fe-B based amorphous and crystal alloys** (invited)
 Pokatilov V.S.
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- EC-2/1** **Sized effect and polar magnetization and in semiconductor-FeNi system**
Pudonin F.A.¹, Talmadge J.M., Gao J., Riley M.P., Roth R.J.,
 Kim S.-O., Eden J.G., Mel'nikov I.V.²
University of Illinois, Urbana, IL USA
¹ *P. N. Lebedev Physics Institute, Moscow, Russia*
² *University of Toronto, Toronto, Canada*
- EC-2/2** **Induced magnetic anisotropy and atomic structure in monocrystalline Fe_{1-x}Si_x (x = 0.048–0.08)**
Lukshina V.A.*, Ershov N.V.*, Chernenkov Yu.P.**,
 Fedorov V.I.** and Sokolov B.K.*
 **Institute of Metal Physics, Ural Division of RAS, Yekaterinburg, Russia*
 ***Petersburg Institute of Nuclear Physics, RAS, Gatchina, Russia*
- 16.45 -18.15**
- EC-L4** **Stray- Field Singularity Near The Edge Of High Anisotropic Magnet: Origin, Manifestation, Applications** (invited)
 Belozorov D.P.*, Ravlik A.G., Samofalov V.N.
National Technical University "Kharkiv Polytechnic Institute" Kharkiv, Ukraine;
 **Nat. Scient. Centre "Kharkiv Institute of Physics and Technology" NASU, Kharkiv, Ukraine*
- EC-2/3** **The permanents magnets based on alloys of Nd-Fe-B and Nd-Fe-C systems** (invited)
 Brekharya G.
Department of Materials Science, Zaporozhye National University, Zaporozhye, Ukraine

- EC-2/4 Magnetic properties and structure of Nd-Fe-B melt-spun ribbons for isotropic bonded magnets**
 Bovda A.M.¹, Tortika A.S.¹, Onischenko L.V.¹, Bovda V.A.¹, Kostin A.A.¹, Kutniy D.V.¹, Avramenko B.A.², Chernov E.A.², Ravlik A.G.².
¹National Scientific Centre “Kharkiv Institute of Physics and Technology”, Kharkiv, Ukraine
²National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, Ukraine
- EC-2/5 Magnetic And Structural Properties of Nd-Fe-C Melt-Spun Alloys**
 Bovda A.M., Tortika A.S., Onischenko L.V., Bovda V.A., Kostin A.A., Kutniy D.V., Tereshin V.I., Garkusha I.E.
 National Scientific Centre “Kharkiv Institute of Physics and Technology”, Kharkiv, Ukraine
- EC-2/6 Data-measuring system for hard-magnetic material testing**
 Lankin M.V.
 South-Russia State Technical University The Chair of Data-Measuring and Medical Equipment. Novocherkassk. Russia

15.00-19.00**Poster Session EQ.****Section 10. Materials for Medical and Environmental Applications. Biosensors****Chairmen: Gorobets S.V., K.A.Burkov K.A.**

- EQ-10/1 Covalent immobilization of urease on obtained by sol-gel method polysiloxane matrices**
Pogorilyi R.P., Goncharik V.P., Kozhara L.I., Zub Yu.L.
Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Kyiv;
- EQ-10/2 The chain structures step influence of ferromagnetic microspheres on their catching ability**
¹Gorobets Yu.I., ²Gorobets S.V., ³Legenkiy Yu.A., ³Pimenov Yu.N.
¹*Institute of Magnetism NAS of Ukraine, Kiev, Ukraine*
²*National Technical University of Ukraine “Kiev Politechnical Institute”, Kiev, Ukraine*
³*Donetsk National University, Donetsk, Ukraine*
- EQ-10/3 Influence of the two-level nozzles elements sizes on their catching ability**
¹Gorobets Yu.I., ²Gorobets S.V., ³Legenkiy Yu.A., ³Pimenov Yu.N.
¹*Institute of Magnetism NAS of Ukraine, Kiev, Ukraine*
²*National Technical University of Ukraine “Kiev Politechnical Institute”, Kiev, Ukraine*
³*Donetsk National University, Donetsk, Ukraine*

- EQ-10/4** **NO_x sensor based on WO_{3-x} nanoparticles. Electronic structure and electrophysical characteristics**
Korduban A.M.^{*}, Shpak A.P., Medvedskij M.M., Kandyba V.A., Kryshchuk T.V., Trachevskij V.V.
Institute of Physics of Metals, National Academy of Sciences, Ukraine, Kiev, Ukraine
- EQ-10/5** **Temperature-stimulated transformations of chromenoacridines in liquid crystalline solvents**
 Kasyan N.A., Panikarskaya V.D., Lisetski L.N., Manzhara V.S.*
Institute for Scintillation Materials, STC "Institute for Single Crystals" of NAS of Ukraine, Kharkov, Ukraine
 **Institute of Physics of NAS of Ukraine, Kyiv, Ukraine*
- EQ-10/6** **The basic controllable parameters of vacuum microwave drying of pharmaceutical production**
Solodilov A.A.⁽¹⁾, Kisil' E.M., Voloshko A.Yu., Samoilo V.L.⁽¹⁾, Shishkin O.V.
Institute for Scintillation Materials NAS of Ukraine, STC "Institute for Single Crystals", National Academy of Sciences of Ukraine, Kharkiv, Ukraine
⁽¹⁾ *"Technological park "Institute for Single Crystals", Kharkiv, Ukraine*
- EQ-10/7** **Application of microwave energy in the farmaceutical industry**
Kisil' E.M., Voloshko A.Yu., Samoilo V.L.⁽¹⁾, Solodilov A.A.⁽¹⁾, Shishkin O.V.
Institute for Scintillation Materials NAS of Ukraine, STC "Institute for Single Crystals", National Academy of Sciences of Ukraine, Kharkiv, Ukraine
⁽¹⁾ *"Technological park "Institute for Single Crystals", Kharkiv, Ukraine*
- EQ-10/8** **Desorption properties of amorphous calcium phosphate**
Smolyak S.S.¹, Karbovskii V.L.², Shpak A.P.²
¹*Technical Center NAS of Ukraine, Kiev, Ukraine*
²*Institute of Metal Physics NAS of Ukraine, Kiev, Ukraine*
- EQ-10/9** **Interaction of complexes of natural flavonoids and transport blood proteins with surface of silics enterosorbent**
Sira T.V., Lipkovska N.O., Barvinchenko V.M.
Institute of Surface Chemistry of NASU, Kiev, Ukraine,
- EQ-10/10** **Hydroxyapatite ceramics modified by magnetic particles**
 Zyman Z.Z., Tkachenko N.V., Olkhovik L.P.
V.Karazin Kharkiv National University, Kharkiv, Ukraine

- EQ-10/11 Synthesis of bifunctional mesoporous silicas using cetylpyridinium chloride as template**
Gona O.I.¹, Zub Yu.L.¹, Yaroshenko N.A.²
¹*Institute of Surface Chemistry, NAS of Ukraine, Kyiv Ukraine*
²*Institute of Sorption and Endoecology Problems, NAS of Ukraine, Kyiv, Ukraine*
- EQ-10/12 Porphyrin-based receptors for metal cations**
Mamardashvili N.Zh., Pognon G.*, Mamardashvili G.M.,
Weiss J.*, Koifman O.I.
Institute Solution Chemistry Russian Academy of Sciences
* *UMR 7512 au CNRS, Institute Le Bel, Universite Louis Pasteur, Strasbourg*
- EQ-10/13 Theoretical and spectral investigation of anionic isomorphous replacements in the structure of calcium fluorapatite**
Kurgan N.A.², Karbovskii V.L.¹, Shpak A.P.¹, Senkevich A.I.¹
¹*Institute of Metal physics, NAS of Ukraine, Kiev, Ukraine*
²*Technical center NAS of Ukraine, Kiev, Ukraine*
- EQ-10/14 Formation of functional materials from oyster shell wastes through nanoscale proteins activating hydrothermal hot pressing**
Korablova I.¹, Yamasaki N.¹, Korablov D.¹, Kopan A.², Oke Y.¹,
Stepanchuk A.³, Ishida Emile H.¹, Korablov S.¹
¹*Tohoku University, Graduate School of Environmental Studies, Sendai Japan*
²*Institute for Problems of Materials Science, Kiev, Ukraine*
³*National Technical University of Ukraine "KPI" Kiev, Ukraine*
- EQ-10/15 Dye-containing Langmuir-Blodgett films as materials for pH sensors**
Bezdrovnaia Olga N.¹, Mchedlov-Petrosyan Nikolay O.²,
Savin Yuriy N.¹,
¹*Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine*
²*V.Karazin Kharkiv National University, Kharkiv, Ukraine*
- EQ-10/16 DNA bioarrays on localized porous silicon**
Benilov Arthur¹, Skryshevsky Valeri¹, Cabrera Michel²,
Martin Jean-Rene²
¹*Kyiv Taras Shevchenko National University, Kiev, Ukraine*,
²*Laboratoire d'Electronique, Optoelectronique et Microsystemes, Ecole Centrale de Lyon, Ecully Cedex, France*
- EQ-10/17 Formation of nano-structured coatings of Ca₁₀(PO₄)₆F₂ doped with Mn²⁺, Sm³⁺ ions**
Babayevskaya N.V., Savin Yu.N., Bezdrovnaia O.N.,
Doroshenko A.G., Tolmachev A.V., Pusikov V.M.
Institute for Single Crystals NAS of Ukraine, Kharkiv, Ukraine

- EQ-10/18 Effect of active molecules adsorption on electron and optical properties of porous silicon**
Osminkina L.A., Vorontzov A.S., Pavlikov A.V.,
 Konstantinova E.A., Timoshenko V.Yu., Kashkarov P.K.
¹*Moscow State M.V. Lomonosov University, Physics Department, Moscow, Russia*
- EQ-10/19 Nanoparticles of silver as the base of creation of a bactericide water-soluble composition**
¹Yurkova I.N., ²Estrela-Llopis V.R., ³Ryabushko V.I.,
³Ryabushko L.I.
¹*V.I.Vernadsky Tavrida National University, Simferopol,*
²*F.D.Ovcharenko Institute of Biocolloid Chemistry NASU, Kiev,*
³*Institut of Biology of Southern Sea NASU, Sevastopol*
- EQ-10/20 The luminous bacteria perceptibility to millimeter electromagnetic fields**
Drokina T.V.¹, Popova L.U.², Bitehtina M.A.¹, Petrakovskii G.A.¹
¹*Institute of Physics SB RAS, Akademgorodok, Krasnoyarsk, Russia*
²*Institute of Biophysics SB RAS, Akademgorodok, Krasnoyarsk, Russia*
- EQ-10/21 Combined method of waste water purification of heavy metal ions**
¹Gorobets S.V., ²Gorobets O.Yu., ³Goyko I.Yu., ¹Mazur S.P.
¹*National Technical University of Ukraine "KPI", Kiev, Ukraine*
²*Institute of Magnetism of NAS of Ukraine, Kiev, Ukraine*
³*National University of Food Technologies, Kiev, Ukraine*
- EQ-10/22 Deactivation of microorganisms by combined influence of steady magnetic field and metal ions**
¹Gorobets S.V., ²Gorobets O.Yu., ³Kasatkina T.P., ²Deyna O.A.,
¹Mazur S.P.
¹*National Technical University of Ukraine "KPI", Kiev, Ukraine*
²*Institute of Magnetism of NAS of Ukraine, Kiev, Ukraine;*
³*Institute of Microbiology and Virology of NAS of Ukraine, Kiev, Ukraine.*
- EQ-10/23 New anion-radical salts TCNQ as perspective materials for sensors**
Ziolkovskiy D.V., Starodub V.A.
Kharkov national university by V.N. Karazin, Kharkov, Ukraine
- EQ-10/24 The Influence of Ferromagnetic Nozzle's Configuration on the Process of Microorganisms Decontamination in a Permanent Magnetic Field**
¹Gorobets S.V., ²Gorobets O.Yu., ¹Mazur S.P., ¹Zinyuk A.I.,
¹Lutsik P.I.
¹*National Technical University of Ukraine "KPI", Kiev, Ukraine*
²*Institute for Magnetism of NAS of Ukraine, Kiev, Ukraine*

EQ-10/25 Comparative tribologic investigation of the materials for the joint endoprotheses

Vvedensky U.¹, Gavrilov R.¹, Ostrovskaya Ye.¹, Yukhno T.¹,
Golukhova A.², Timchenko I.², Filipenko V.², Voloshyn A.³,
Lytvynov L.³

¹*Special Research and Development Bureau for Cryogenic
Technology of B.Verkin Institute for Low Temperature Physics and
Engineering (SR&DB of ILTPE)*

²*Sytenko Institute of Spine and Joint Pathology*

³*Scientific Technological Complex "Institute for Single Crystals"*

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C		Denisova L.A.....	CB-7/8
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Carmen Muñoz M.....	DA-9/5	Deyna O.A.....	EQ-10/22
Carotenuto G.....	DA-9/2	Dittrich Th.....	CP-3/5
Caruntu Daniela.....	DA-9/1	Dmitrenko O.P.....	DR-9/11
Cheng X.M.....	BB-3/8	Dmitrieva N.V.....	EP-2/9
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Chernenkov Yu.P.....	EC-2/2, EP-2/7	Dobrinskiy A.....	AP-6/1
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- Doroshev V.D. *CP-3/24, CP-3/19, BQ-1/4*
- Doroshkevich A.S. *DP-9/27, AP-6/16*
- Dotsenko I.P. *DA-9/6*
- Dovbeshko G.I. *DS-4/9*
- Dragunov I.E. *BQ-1/11*
- Drokina T.V. *EQ-10/20*
- Drozdova I.A. *DP-9/2*
- Dubinko S.V. *DS-4/22, DS-4/21, DR-9/5, BQ-1/18, AP-6/22*
- Dubovik M.F. *BP-8/4*
- Dubrovin I.V. *DR-9/4*
- Dyakonov V.P. *CP-3/21, AP-6/5*
- Dzhezherya Yu.I. *DR-9/13*
- Dzumaliev A.S. *CB-7/5*
- E**
- Edelman I.S. *EA-L2*
- Eden J.G. *EC-2/1*
- Efimova A.I. *DB-9/3*
- Efimova N.N. *BQ-1/17*
- Ekomasov E.G. *BQ-1/9*
- Elizarov S.G. *DP-9/5*
- Emello G. *CP-3/33*
- Eremenko A.M. *DS-4/9, DP-9/25*
- Eremenko G. *EP-2/18*
- Eremtsova L.L. *AQ-7/5, AQ-7/4*
- Ermakov A.N. *DP-9/23*
- Ermakova O.N. *DP-9/23*
- Ershov N.V. *EC-2/2, EP-2/7*
- Espinosa-Magaña F. *CA-6/2*
- Estrela-Llopis V.R. *EQ-10/19*
- Evstafiev I.I. *CP-3/10*
- Evstafyeva E.N. *CP-3/17*
- F**
- Fedorenko L.L. *DP-9/18*
- Fedorov V.I. *EC-2/2, EP-2/7*
- Fedutik Ya.A. *DR-9/7*
- Fedutik Yu.A. *DR-9/6*
- Felner I. *DR-9/2*
- Fetisov Y.K. *CB-7/3*
- Filikov V.A. *AQ-7/12*
- Filimonov Yu.A. *DA-9/4, CB-7/5, CB-7/4, AQ-7/3, AQ-7/2, AQ-7/1*
- Filipenko V. *EQ-10/25*
- Finokhin V.I. *BQ-1/12*
- Flores-Zúñiga H. *CA-6/2*
- Fomin M.A. *DB-9/3*
- Fominych E.G. *BB-3/12*
- Fominych H.G. *CP-3/12*
- Fraerman A.A. *DR-9/1, DA-9/3, AC-1/2*
- Fridman Yu.A. *BQ-1/3, BQ-1/2*
- G**
- Gal'chinetskii L.P. *BP-8/3*
- Gal'chinskii L. *BP-8/2*
- Galet Ana. *DA-9/5*
- Galishnikov A.A. *CB-7/4*
- Galkin S.N. *BP-8/3*
- Galunov N.Z. *BP-8/23*
- Galuzha A.A. *EA-L3*
- Gamzatov A.G. *CP-3/34*
- Gao J. *EC-2/1*
- Gareyeva E.R. *BQ-1/8*
- Garkusha I.E. *EC-2/5*
- Gavrilenko I.V. *CP-3/5*
- Gavrilenko S.V. *BQ-1/14*
- Gavriliuk A.G. *BR-5/10, AC-1/10*
- Gavrilov R. *EQ-10/25*
- Gavrilyuk A.M. *BQ-1/5*
- Gayvoronsky V.Ya. *DS-4/9*
- Gentsar P.O. *DP-9/1*
- Gerasimchuk Igor V. *EP-2/1, BQ-1/10*
- Gerasimchuk V.S. *AQ-7/11*
- Gizhevskii B.A. *DA-9/8*
- Gladkov A.S. *EP-2/4*
- Glavatska N. *CA-6/3, CA-6/2, CA-L2, AP-6/3, AP-6/1*
- Glavatskyy I. *CA-6/3, CA-L2, AP-6/3, AP-6/1*
- Glazunova V.A. *DP-9/27*
- Globus M.E. *BA-L1*
- Glumova M. *BP-8/23*
- Glushkov M.V. *CP-3/13*
- Gnezdilov V. *AC-1/4*
- Gnezdilov V.P. *AC-1/1*
- Golovan L.A. *DB-9/4, DB-9/3*
- Golub A.S. *DP-9/20*
- Golub O. *DP-9/16*
- Golub T.V. *EP-2/10*
- Golub V.O. *DA-L1*
- Golub Vladimir *DA-9/1*

- Golubeva O.Yu. DP-9/19
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Gomonay H.V. AC-L1
Gona O.I. EQ-10/11
Goncharik V.P. EQ-10/1
Gontarz R. DS-4/18
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González Jesús M. EP-2/1
Gorbachuk N.I. DR-9/7
Gorbenko O.Yu. CP-3/34, BB-3/4
Gorbik P.P. DR-9/4
Gorbovanov A.I. DQ-11/13, CP-3/10
Gordienko L.S. BP-8/14
Gornakov Vladimir S. CP-3/6
Gorobets O.Yu. EQ-10/24, EQ-10/22,
EQ-10/21, DR-9/14
Gorobets S.V. EQ-10/24, EQ-10/22,
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Gorobets V.Yu. DR-9/14
Gorobets Yu.I. EQ-10/3, EQ-10/2,
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Goyko I.Yu. EQ-10/21
Grabar A. BR-5/7
Grabovskiy Yu.E. DP-9/6
Granovskii Ya.I. BQ-1/13
Grenyov B.V. BP-8/6
Gribkov B.A. DR-9/1, DA-9/3, AC-1/2
Gridnev V.N. EA-4/4
Grigorov I.G. DP-9/23, CP-3/18
Grigorov S.N. DA-9/10
Grinyov B.V. DS-4/2, BP-8/17,
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Grossinger R. BQ-1/1
Gruselle M. AC-1/9
Guba N.F. BP-8/16
Guba S.K. DP-9/9
Gubin S.P. DA-9/6
Gudim I.A. BP-8/18
Guretskii S.A. DS-4/12
Gusarov V.V. DB-9/6, DP-9/19,
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Gusev A.A. AC-1/1
Gusev S.A. DR-9/1, DA-9/3, AC-1/2
- H**
- Hannula S.P. AP-6/1
- Hu M.Y. BR-5/10
Hwu S.-J. AC-1/4
Hymenyuk O.V. EP-2/10
- I**
- Ignatchenko V.A. AB-L1
Ignatyeva E.V. CP-3/30
Ihm G. BB-3/1
Il'ichev E. AC-1/2
Ishchuk V.M. BR-5/4, BR-5/3
Ishida Emile H. EQ-10/14
Iunin Yu.L. BB-3/8
Ivanchenko I. CP-3/8
Ivanov M. AP-6/7
Ivanov V.A. DP-9/8, DP-9/7, BB-L1
Ivanov V.Yu. BB-3/5
Ivanova T.I. AC-1/8
Izhnin A.I. EA-4/6
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- J**
- Judaev D.N. DQ-11/1
Jung Jung Gyu CP-3/6
- K**
- Kabanov V.V. DA-9/11
Kabanov Yu. EP-2/14
Kadomtseva A.M. AC-1/7
Kakazei G.N. DA-L1, AB-L2
Kalanda N.A. DS-4/12
Kalashnikova A.M. EA-4/4
Kalinin Yu.E. DA-9/9, AQ-7/14
Kalinina L.A. CP-3/12, BB-3/12
Kalish A.N. EA-4/1
Kamenev V.I. CP-3/19, BQ-1/4, AB-L2
Kandyba V.A. EQ-10/4
Kang T.W. BB-3/1
Karami H. DR-9/3
Karavainikov A.V. DP-9/3
Karavan S.V. EB-10/2
Karbovskii V.L. EQ-10/13, EQ-10/8
Karelin S. CP-3/8
Karpovich I.A. DP-9/21
Kasatkina T.P. EQ-10/22
Kashkarov P.K. EQ-10/18, EB-10/1,
DB-9/4
Kasyan N.A. EQ-10/5, EB-10/4
Katrunov K. BP-8/8, BP-8/2

Kaul A.R.	<i>CP-3/34, BB-3/4</i>	Korshak V.F.	<i>AP-6/20</i>
Kazantseva Z.	<i>DP-9/28</i>	Korytkova E.N.	<i>DP-9/19</i>
Kharisov A.T.	<i>BQ-1/6</i>	Kosevich V.M.	<i>DA-9/10</i>
Kharlamova S.A.	<i>BQ-1/5</i>	Kosintsev S.G.	<i>EC-L1</i>
Khirnyi V.F.	<i>CP-3/25</i>	Kosmachev O.A.	<i>BQ-1/2</i>
Khlapova N.	<i>BP-8/21</i>	Kosmyna M.B.	<i>BP-8/12</i>
Khovaylo V.	<i>CA-6/1</i>	Kostin A.A.	<i>EC-2/5, EC-2/4</i>
Khoviv Alexander M.	<i>DB-9/2</i>	Kostrukov V.F.	<i>CP-3/36</i>
Khristov A.V.	<i>DA-9/5</i>	Kostyk L.	<i>BP-8/11</i>
Kilimchuk I.V.	<i>BP-8/14, BP-8/13</i>	Kotov L.N.	<i>DA-9/9, CA-6/5, AQ-7/14, AQ-7/9</i>
Kim E.M.	<i>EA-4/5</i>	Kotov V.A.	<i>EA-4/2, EA-4/1</i>
Kim J.B.	<i>DS-4/18</i>	Kovalenko V.F.	<i>DR-9/12</i>
Kim J.W.	<i>BB-3/1</i>	Kovalenko V.I.	<i>AC-1/9</i>
Kim Jeong-Joo	<i>DA-9/1</i>	Kovalev Alexander S.	<i>BQ-1/10</i>
Kim N.	<i>BB-3/1</i>	Koz'min A.S.	<i>CP-3/16</i>
Kim S.-O.	<i>EC-2/1</i>	Kozhara L.I.	<i>EQ-10/1</i>
Kirillova M.M.	<i>CP-3/7</i>	Kozhevnikov A.V.	<i>DA-9/4, CB-7/4, AQ-7/3, AQ-7/2, AQ-7/1</i>
Kisel N.G.	<i>CP-3/30</i>	Kozinetz A.V.	<i>DP-9/12</i>
Kisil' E.M.	<i>EQ-10/7, EQ-10/6</i>	Kozlov E.A.	<i>DA-9/8</i>
Kisluk V.V.	<i>DP-9/12</i>	Kozlova E.I.	<i>DR-9/6</i>
Kitaitsev A.A.	<i>AQ-7/5, AQ-7/4</i>	Kozlovskiy A.A.	<i>CP-3/25, BR-5/3</i>
Kitsak A.I.	<i>DA-9/11</i>	Kozyarevych I.	<i>DP-9/28</i>
Kleinerman N.M.	<i>EP-2/9, EP-2/7</i>	Kravets A.F.	<i>EA-4/5, DR-9/13</i>
Klevets Ph.N.	<i>BQ-1/3, BQ-1/2</i>	Krinitcina T.P.	<i>CP-3/18, CP-3/3</i>
Klimov A.	<i>AP-6/6</i>	Krivoruchko V.N.	<i>CP-3/27, CP-3/24, BA-L5</i>
Klimov A.Yu.	<i>DR-9/1, AC-1/2</i>	Krutkova E.Yu.	<i>DB-9/3</i>
Kobljanskyj Yu.V.	<i>CB-7/2</i>	Krutyansky L.	<i>AP-6/13, AP-6/7</i>
Koifman O.I.	<i>EQ-10/12</i>	Krynetskii I.B.	<i>AP-6/5</i>
Kokhanovskii L.V.	<i>DS-4/12</i>	Kryshchuk T.V.	<i>EQ-10/4</i>
Koledov V.V.	<i>CA-6/1, AP-6/8</i>	Kryzhanovskaya A.S.	<i>EB-10/3, DP-9/24</i>
Kolesnik S.	<i>DR-9/8</i>	Krzystek J.	<i>AC-1/4</i>
Kolesova I.M.	<i>DS-4/12</i>	Kucherenko S.S.	<i>CP-3/32, BB-3/2</i>
Kolomiets S.N.	<i>EA-L3</i>	Kuchko A.N.	<i>CB-7/7</i>
Kolosov V.Yu.	<i>DA-9/10</i>	Kudin A.M.	<i>BP-8/14, BP-8/13</i>
Kolyadinceva L.V.	<i>CP-3/36</i>	Kudin K.A.	<i>BP-8/17, BP-8/10</i>
Konstantinova E.A.	<i>EQ-10/18</i>	Kudryavtsev Y.V.	<i>DS-4/18, AP-6/21</i>
Konstantinova T.E.	<i>DB-L2, DP-9/27, CP-3/24, AP-6/16</i>	Kudryavtzev A.A.	<i>EB-10/1</i>
Kopan A.	<i>EQ-10/14</i>	Kulagin N.E.	<i>AC-1/3</i>
Korablov D.	<i>EQ-10/14</i>	Kulish M.P.	<i>EP-2/16, EP-2/15</i>
Korablov S.	<i>EQ-10/14</i>	Kulish N.P.	<i>DR-9/11, DP-9/11, DP-9/6</i>
Korablova I.	<i>EQ-10/14</i>	Kurgan N.A.	<i>EQ-10/13</i>
Korduban A.M.	<i>EQ-10/4, CP-3/24</i>	Kurhan S.V.	<i>CP-3/23</i>
Koroleva L.I.	<i>CP-3/34, CP-3/14</i>	Kurilo I.V.	<i>DP-9/9</i>
Korolyov A.V.	<i>CP-3/22</i>		
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Kydin K.A.....	BP-8/6	Lutsev L.V.....	AQ-7/8
L		Lutsik P.I.....	EQ-10/24
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Lamonova K.V.	BB-3/11, AC-1/4, AC-1/1	Lysy I.V.....	DP-9/1
Lankin M.V.....	EC-2/6	Lytvyn P.M. DB-L1, DP-9/18, DP-9/11	
Lauter H.J.....	CP-3/3	Lytvynov L.....	EQ-10/25
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Lavrushina S.S.....	DB-9/6	Lyubchanskii M.I.....	EA-4/3
Lebedeva T.S.....	BP-8/7	Lyubinskiy V.R.....	BA-L1
Lee Chan Gyu.....	CP-3/6	Lyubutin I.S.BR-5/10, BQ-1/5, AC-1/10	
Lee Jong-Chul.....	DA-9/1	Lyutyty T.V.....	CB-7/8
Lee Joon-Hyung.....	DA-9/1	M	
Lee S.J.....	BB-3/1	Machnyev A.M.....	DS-4/20, DS-4/19
Lee Y.P.....	EA-4/3, DS-4/18	Maevskii V.M.....	CP-3/7
Legenkiy Yu.A.....	EQ-10/3, EQ-10/2	Majzelis A.A.....	DR-9/10
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Leonov A.A.....	BQ-1/13	Malashkevich G.....	DS-4/13, BP-8/15
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Levchenko G.G.....	DA-9/5, AP-6/11	Mamalui Yu.A.....	BQ-1/13
Leviev G.I.....	DR-9/2	Mamardashvili G.M.....	EQ-10/12
Levitsky N.I.....	EP-2/4	Mamardashvili N.Zh.....	EQ-10/12
Lipkovska N.O.....	EQ-10/9	Manilov A.I.....	CP-3/5
Lisetski L.N.....	EQ-10/5, EB-10/4	Manzhara V.S.....	EQ-10/5
Lisovets E.V.....	DP-9/3	Mao Ho-kwang.....	BR-5/10
Lizunov V.V.....	DR-9/11	Marcelli R.....	CB-7/4
Lobov I.D.....	CP-3/7	Marchenko A.I.....	CP-3/27
Loginov B.A.....	CP-3/18	Marchenkov V.V.....	CA-6/4
Logvinenko O.N.....	BP-8/22	Marszalek M.....	BB-3/7
Loktev V.M.....	AC-L1	Martin Jean-Rene.....	EQ-10/16
Lomakina I.Yu.....	BQ-1/7	Martinov S.....	AC-L2
Lomanova N.A.....	BR-5/2	Martynenko E.V.....	BP-8/23
Loshkareva N.N.	DA-9/8, CP-3/22, BB-3/3	Masson S.....	AP-6/6
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Lozovski V.....	DP-9/28, BP-8/23	Matunin D.A.....	BQ-1/3
		Matutes-Aquino J.....	BQ-1/1
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Mazanko V.F.	DR-9/11	Nagornyi P.	EA-4/7
Mazinov A.S.	DP-9/3	Nakhodkin N.G.	DP-9/11
Mazur A.S.	CP-3/19, BQ-1/4	Nakonechna O.	DP-9/14
Mazur S.P.	EQ-10/24, EQ-10/22, EQ-10/21	Nauchatsky I.A.	AP-6/19
Mchedlov-Petrossyan Nikolay O.	EQ-10/15	Naumov S.V.	CP-3/22
Medvedeva O.V.	CP-3/12	Nazarenko B.P.	BP-8/12
Medvedeva K.M.	CP-3/36	Nazarov V.N.	BQ-1/7
Medvedeva O.V.	BB-3/12	Nechvolodova E.M.	DP-9/5
Medvedskij M.M.	EQ-10/4	Nedilko S. ...	EA-4/7, DS-4/13, BP-8/15
Medvid' A.P.	DP-9/18	Nedviga A.N.	DS-4/22
Mel'nikov I.V.	EC-2/1	Nedviga A.S.	AP-6/22
Melkov G.A.	CB-7/2	Nepevnaya N.S.	AP-6/19
Melnichenko D.V.	DA-9/10	Nesteruk A.G.	DS-4/22, AP-6/22
Melnichuk I.A.	BQ-1/15, BQ-1/14	Nichiporuk O.I.	DP-9/12
Melnikov A.A.	BP-8/9	Nikiforov A.E.	CP-3/31
Melnikov O.A.	BP-8/9	Nikitenko V.I.	BB-3/8
Melnikov O.V.	CP-3/34, BB-3/4	Nikitin S.A.	AC-1/8
Melnyk S.S.	EA-4/6	Nikitina N.A.	BQ-1/15
Menshchikova T.K.	CP-3/13	Nikitov S.A.	CB-7/4
Merkulov V.S.	DS-4/6	Nikolaev E.	DS-4/15
Meshcheryakov V.F.	AC-1/6	Nikolaychuk G.P.	DA-9/10
Mezentseva L.P.	DP-9/2	Nikulin Yu.V.	CB-7/5
Michurin A.V.	CP-3/14	Nizhelskiy N.	DQ-11/10
Mikhailova H.V.	DS-4/23, DS-4/22	Norden D.V.	CP-3/10
Milyaev M.A. ...	CP-3/18, CP-3/7, CP-3/3	Nosenko A.	EP-2/18
Mironov V.L.	DA-9/3	Nosov L.S.	AQ-7/9
Mitichkin A.I.	BP-8/10	Novikov Yu.N.	DP-9/20, DP-9/5
Mittova I.Ya.	CP-3/36	Novitskii N.N.	AQ-7/8
Moldovan B.M.	DR-9/12	Novotortsev V.M.	DP-9/8, DP-9/7
Mordyuk B.N.	EP-2/11	Nozdrin Yu.N.	DR-9/1, AC-1/2
Morosov A.I.	CP-3/2		
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Moskvin P.P.	DP-9/26	O'Connor Charles J.	DA-9/1
Mostovshchikova E.V.	DA-9/8, CP-3/22, BB-3/3	Ochoa-Gamboa R.	CA-6/2
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Mukhin A.A.	BB-3/5	Odzhaev V.B.	DR-9/7, DP-9/21
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Murzina N.V.	EA-4/5	Oke Y.	EQ-10/14
N		Oksenenko V.A.	AP-6/21
Nabialek A.	AP-6/5	Oksenenko V.O.	DS-4/18
		Ol'khovik L.P.	EQ-10/10, DR-9/5
		Oliynik V.	AQ-7/13
		Olszewski M.	DQ-11/9, DQ-11/8
		Onanko A.P.	AP-6/17

Onischenko G.	BP-8/8	Pilipenko N.	DR-9/13
Onischenko L.V.	EC-2/5, EC-2/4	Pimenov Yu.N.	EQ-10/3, EQ-10/2
Orel S.M.	BB-3/11	Pirogov E.N.	BP-8/17
Oshkaderov S.P.	EP-2/19, EP-2/4	Pisarev R.V.	EA-4/4
Osipov A.V.	DP-9/2, CB-7/6	Plokhov D.I.	DR-9/2
Osminkina L.A.	EQ-10/18, EB-10/1	Plyushchay I.V.	EP-2/17
Ostapenko I.A.	DB-9/4	Pognon G.	EQ-10/12
Ostrovskaya Ye.	EQ-10/25	Pogorelov A.E.	DR-9/11
Ovanesyan N.S.	AC-1/9	Pogorelov Yu.G.	BB-3/6
Ovcharenko A.I.	DQ-11/7, DQ-11/6	Pogorily A.N.	EA-4/5, DR-9/13, CP-3/20
Ovchinnikov S.G.	BQ-1/5, AC-L3	Pogorilyi R.P.	EQ-10/1
Overko N.E.	BB-3/10	Pogrebnyak S.V.	DQ-11/6
Ovsienko I.	DP-9/16, DP-9/15	Pokatilov V.S.	EC-L2
Ozerov M.V.	BP-8/7	Poklonski N.A.	DR-9/7
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Pakhomov G. L.	AC-1/2	Pokyd'ko O.	DP-9/28
Pan'kov V.V.	EP-2/2, DS-4/12	Polulyakh S.N.	DQ-11/13, DQ-11/12, DQ-11/3, DQ-11/2, AP-6/2
Panikarskaya V.D.	EQ-10/5, EB-10/4	Poluschenko O.	DQ-11/10
Pankratov N.Yu.	AC-1/8	Polushkin N.I.	DR-9/1
Pankrats A.	AC-L2	Polyakov P.I.	CP-3/32, BB-3/2
Paraschuk D.Yu.	DP-9/5	Ponomarenko A.T.	DA-9/6
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Pashkevich Yu.G.	BQ-1/4, BB-3/11, AC-1/4, AC-1/1	Popenko N.	CP-3/8
Patrin K.	CP-3/35	Poperenko L.V.	BP-8/7
Pavlenko E.L.	DP-9/6	Popkov A.F.	AP-6/8, AP-6/5, AC-1/3
Pavlikov A.V.	EQ-10/18	Popov A.I.	AP-6/5, AC-1/3
Pavlov V.V.	EA-4/4	Popov M.	AC-L2
Pepe G.	DA-9/2	Popov V.V.	CB-7/9
Perekrestov B.	CP-3/26	Popov Yu.F.	AC-1/7
Perekrestova L.D.	DP-9/27	Popova L.U.	EQ-10/20
Perlo P.	DA-9/2	Poroshin V.G.	DP-9/6
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Petrenko O.A.	AC-1/5	Prokhorov A.S.	BB-3/5
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Petrunev S.N.	AQ-7/14	Protsenko I.Yu.	BB-3/7
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