

**International conference
“Functional Materials”**

ICFM ' 2003

PROGRAM

Ukraine, Crimea, Partenit

October 6 – 11, 2003

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' 2003. The conference will address aspects relevant to the physics, technology and applications of new materials and structures with specified functional properties.

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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 and Russian (demonstrative materials in 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 6, at 20.00 – Concert

Wednesday, October 8, at 15.00 – testing of Crimean Vine from "Massandra" collection (Yalta).

Thursday, October 9, at 20.00 – Concert.

Friday, October 10, 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 6	10.00-14.00	Session AA	Opening. Plenary I	
	15.00-18.00	Session AB	Section 2. Magnetoiresistive Materials	
	15.00-19.00	Session AP		Section 2. Magnetoiresistive Marerials
	20.00-21.00	Culture program	Concert	
Tuesday, October 7	9.00-13.30	Session BA	Plenary II	
	9.00-14.00	Session BP		Section 8. Materials for Medical and Environmental Applications
	15.00-17.30	Session BB	Section 9. Nanophysics & Nanotechnologies	
	15.00-19.00	Session BQ		Section 9. Nanophysics & Nanotechnologies
Wednesday October 8	9.00-13.30	Session CA	Section 4. Microwave Materials	
	9.00-14.00	Session CP		Section 4. Microwave Materials Section 6. Piezoelectric Materials
	15.00-19.00	Culture program	Testing of Crimean Vine from "Massandra" collection (Yalta)	

Date	Time		Oral presentations (Hall)	Poster presentations (Foyer)	
Thursday, October 9	9.00-13.00	Session DA	Section 1. Magnetic materials 1		
	9.00-14.00	Session DP		Section 1. Magnetic Materials	
	15.00-17.30	Session DB	Section 1. Magnetic materials 2		
	15.00-19.00	Session DQ		Section 10. Physical Methods for Study of Functional Materials	
	20.00-21.00	Culture program	Concert		
	Friday, October 10	9.00-11.00	Session EA	Section 3. Magneto-optic Materials	
11.30-13.00		Session EB	Section 5. Scintillation Materials		
9.00-14.00		Session EP		Section 3. Magneto-optic Materials	
		Session EQ		Section 5. Scintillation Materials	
15.00-17.30		Session EC	Section 7. Adaptive Materials (martensites)& Magnetic alloys		
15.00-18.30		Session EQ		Section 7. Adaptive Materials (martensites)& Magnetic alloys	
18.30		Closing of the Conference			
20.00-23.00		Conference dinner			

Monday, October 6**10.00-10.30****Oppening
Plenary I****10.30-14.00****Session AA****Chairmen: Baryakhtar V.G., Grinyov B.V.****AA-L1 To 85-th anniversary of Taurida University: contribution of the University into nuclear sciences and technologies**

Berzhansky V.N.

*V. Vernadsky Taurida National University, Simferopol, Ukraine***AA-L2 New scintillation materials: properties and perspective applications (Invited)**Globus M.¹, Grinyov B.¹, Ratner M.²¹*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*²*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine***AA-L3 Ferromagnetic shape memory alloys as the new magnetic materials (Invited)**

Kokorin V.V.

*Institute of Magnetism, Kiev, Ukraine***AA-L4 Spin –accumulation, giant magnetoresistance and spin-torque in magnetic nanostructures (Invited)**Popkov A.F.¹, Zvezdin A.K.², Zvezdin K.A.², Khvalkovskii A.²¹*FSUE Zelenograd Research Institute of Physical Problems, Moscow, Russia*²*General Physics Institute of RAS, Moscow, Russia***AA-L5 Nanoscale magnetism, reversible and irreversible magnetotransport properties of manganite oxides (Invited)**

Krivoruchko V.N., Varyukhin V.N., Tarenkov V.Yu.,

Konstantinova T.E., Savosta M.M., Danilenko I.A.

A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine

Section 2. Magnetoresistive materials

15.00-18.00

Session AB (oral presentations)

Chairmen: Bebenin N.G., Varyukhin V.N.

- AB-L1 Electron kinetics in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ single crystals exhibiting colossal magnetoresistance** (Invited)
 Bebenin N.G.¹, Zainullina R.I.¹, Mashkautsan V.V.¹,
 Ustinov V.V.¹, Mukovskii Ya.M.²
¹*Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia*
²*Moscow State Steel & Alloys Institute, Moscow, Russia*
- AB-2/1 Manganites are new functional materials for optoelectronic**
 Loshkareva N.N.¹, Sukhorukov Yu.P.¹, Mostovshchikova E.V.¹,
 Gan'shina E.A.², Vinogradov A.N.², Kaul A.R.², Gorbenko O.Yu.²
¹*Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia*
²*M. Lomonosov Moscow State University, Moscow, Russia*
- AB-2/2 Effect of Gd subsystem on magnetic properties and spin excitations in $\text{La}_{1-x}\text{Gd}_x\text{MnO}_3$ single crystals**
 Ivanov V.Yu.¹, Mukhin A.A.¹, Travkin V.D.¹, Prokhorov A.S.¹,
 Balbashov A.M.², Hemberger J.³, Lobina S.³ and Loidl A.³
¹*General Physics Institute of RAS, Moscow, Russia*
²*Moscow Power Engineering Institute, Moscow, Russia*
³*Augsburg University, Augsburg, Germany*
- AB-2/3 Observation of inhomogeneities in doped manganites by magnetic resonance methods**
 Volkov N., Petrakovskii G., Sablina K., Patrin K.
L. Kirensky Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, Russia
- AB-2/4 Anomalies of magnetic and magnetoelastic properties of the $\text{Sm}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ at phase transitions**
 Popov Yu.F., Kadomtseva A.M., Vorob'ev G.P., Mukhin A.A.,
 Ivanov V.Yu., Kamilov K.I., Shtofich Y.S., Balbashov A.M.
M. Lomonosov Moscow State University, Moscow, Russia
General Physics Institute of RAS, Moscow, Russia
Moscow Power Institute, Moscow, Russia

- AB-2/5 Preisach analysis of ferromagnetic (LaSr)MnO₃ nanoscale granular system**
 Krivoruchko V.N.¹, Primak T.E.¹, Primak K.I.¹, Danilenko I.A.¹, Melikhov Y.², Jiles D.C.² and Maryshko M.³
¹*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
²*Ames Laboratory, Iowa State University, Ames, Iowa, U.S.*
³*Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic*
- AB-2/6 Magnetoelectric effects in weak ferromagnetic YMn₂O₅**
 Tehranchi M.M., Phirouznia A.
Laser Research Institute and Department of Physics, Shahid Beheshti University, Tehran, Iran
- AB-2/7 The defects and properties of manganite- lanthanum perovskite with colossal magnetoresistance effect**
 Pashchenko V.P.¹, Shemyakov A.A.¹, Prokopenko V.K.¹, Turchenko V.A.¹, Pashchenko A.V.¹, Dyakonov V.P.^{1,2}, Szymczak H.²
¹*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
²*Institute of Physics, Poland Academy of Sciences, Warsaw, Poland*
- AB-2/8 Elastic properties and phase transitions in lanthanum manganite single crystals**
 Zainullina R.I.¹, Bebenin N.G.¹, Burkhanov A.M.¹, Ustinov V.V.¹, Mukovskii Ya.M.²
¹*Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia*
²*Moscow State Steel & Alloys Institute, Moscow, Russia*
- AB-2/9 Regularities of thermodynamical mechanisms elastically anisotropy deformed stresses of T-H-P influence and its role in the critical lines and points of magnetic semiconductors**
 Polyakov P.I.¹, Kucherenko S.S.²
¹*Institute of Mining Processes Physics, Donetsk, Ukraine*
²*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
- AB-2/10 Two-site polarons and their experimental manifestations in dielectric crystals of various types**
 Ratner A.M.
B. Verkin Institute for Low Temperature Physics and Engineering, NAS of Ukraine, Kharkov, Ukraine

- AB-2/11 Multilayers Fe/Cr with unique magnetoresistive properties**
 Ustinov V.V., Romashev L.N., Milyaev M.A., Rinkevich A.B., Krinitsina T.P.
Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia
- AB-2/12 Magnetoresistance of magnetic multilayers: “nontrivial” domain walls contribution**
 Morosov Alexandr
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- AB-2/13 Exchange coupling peculiarities in ultrathin Fe/Cu/Tb film structures on Si substrates**
 Pogoryelov Ye.A., Podyalovski D.I.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- AB-2/14 Electronic and magnetic properties of layered ferromagnetic - semiconductor nanoheterostructures: a configuration and layer thickness effect**
 Lobov I.D.¹⁾, Pudonin F.A.²⁾, Kirillova M.M.¹⁾, Kasatkin C.I.³⁾, Maevskii V.M.¹⁾
¹⁾ *Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia*
²⁾ *P. Lebedev Physics Institute of RAS, Moscow, Russia*
³⁾ *Institute of Control Sciences, Moscow, Russia*
- AB-2/15 Functional properties of materials on the basis of coordination compounds of germanium**
 Lepikh Ya.I., Smytyna V.A., Khomenko M.V., Seifulina I.I., Martsynko E.E.
I. Mechnikov Odessa National University, Odessa, Ukraine

Section 2. Magnetoresistive Materials

15.00-19.00

Session AP (poster presentations)

Chairmen: Krivoruchko V.N., Berzhansky V.N.

- AP-2/1 Pressure and magneto- resistance effects of $(\text{La}_{0.7}\text{Ca}_{0.3})_{1-x}\text{Mn}_{1+x}\text{O}_3$**
 Mikhaylov V.I.^a, Dyakonov V.P.^{a,b}, Shtaba V.A.^a, Zubov E.E.^a, Pashchenko A.V.^a, Szewczyk A., Piotrovski K., Szymczak H.
^a*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
^b*Institute of Physics, Poland Academy of Sciences, Warsaw, Poland*

- AP-2/2 Thermo-, magneto-, baroresistive effects and phase transition in manganite-lanthanum perovskites $\text{La}_{0.6}\text{Mn}_{1.4}\text{O}_3$**
 Pashchenko V.P.¹, Shtaba V.A.¹, Varyuhin V.N.¹,
 Pashchenko A.V.¹, Turchenko V.A.¹, Dyakonov V.P.^{1,2},
 Szymczak H.²
¹*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
²*Institute of Physics, Poland Academy of Sciences, Warsaw, Poland*
- AP-2/3 Large room-temperature magnetoresistance in bulk $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$**
 Tovstolytkin A.I.¹, Pogorily A.N.¹, Belous A.G.²,
 Yanchevski O.Z.²
¹*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine*
²*Institute of General and Inorganic Chemistry, NAS of Ukraine, Kyiv, Ukraine*
- AP-2/4 Magnetoresistive effect in manganites $\text{Ln}_{0.94-x}\text{Ca}_x\text{Mn}_{1-y}^{3+}\text{Mn}_y^{4+}\text{O}_{3.06}^{2-}$ (Ln=La, Nd)**
 Pavlov V.I., Pastushonok S.N., Novitsky O.A.
The Belorussian State Pedagogical University, Minsk, Belarus
- AP-2/5 Low temperature features of the transport in thin film $\text{La}_{0.6}\text{Sr}_{0.2}\text{Mn}_{1.2}\text{O}_3$**
 Dyakonov V.¹, Mikhaylov V.², Zubov E.², Szewczyk A.¹,
 Piotrovsky K.¹, Szymczak H.¹
¹*Institute of Physics, Poland Academy of Sciences, Warsaw, Poland*
²*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
- AP-2/6 Influence of temperature on the oxygen content in the surface layer of LaCaMnO based magnetoresists**
 Melnichuk I.A., Legenkii Yu.A., Loboda S.N.
Donetsk National University, Donetsk, Ukraine
- AP-2/7 Spin-tunnel structures with the built-in ultrathin Cr layers: magnetic and magneto-optical properties**
 Lobov I.D.¹, Pudonin F.A.², Kirillova M.M.¹, Maevskii V.M.¹ and Makhnev A.A.¹
¹*Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia*
²*P. Lebedev Physics Institute of RAS, Moscow, Russia*

- AP-2/8 Thickness optimization of thin films for magnetic tunneling junctions**
Lee C.-G.¹, Gornakov V.S.², Lee B.-S.¹ and Hayashi Y.¹
¹*Changwon National University, Changwon, Gyeongnam, South Korea*
²*Institute of Solid State Physics of RAS, Chernogolovka, Moscow distr., Russia*
- AP-2/9 Magnetic and resonance properties of multilayer (Gd/Si/Co/Si)_n films**
 Patrino G.S.^{1,2}, Vas'kovskii V.O.³, Velikanov D.A.¹, Svalov A.V.³, Volkov N.V.¹, Eremin E.V.¹ & Panova M.A.²
¹*L. Kirensky Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, Russia*
²*Krasnoyarsk State University, Krasnoyarsk, Russia*
³*Ural State University, Ekaterinburg, Russia*
- AP-2/10 Dimensional effects in a three-layered system ferromagnetic metal-ferromagnet nonmagnetic metal-ferromagnet**
 Gorobets Victor
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- AP-2/11 Magnetic and electric properties of Mn_{1-x}Fe_xSe (x≤0.45) solid solutions**
 Makovetskii G.I., Galias A.I., Demidenko O.F.
Institute of Solid State Physics, NAS of Belarus, Minsk, Belarus
- AP-2/12 Magnetic properties of solid solution Cr_{1-x}Co_xTe (x=0÷0.3) system**
 Makovetskii G.I., Dorofejchik S.S.
Institute of Physics of Solids and Semiconductors, NAS of Belarus, Minsk, Belarus
- AP-2/13 New magnetic semiconductors CuCr_{1.5}Sb_{0.5}S₄ with Co**
 Saifullaeva Dilaram A.
Samarkand State University, Physics Department, Samarkand, Uzbekistan
- AP-2/14 Spin accumulation effect and domain wall magnetoresistance in magnetic nanobridges**
Khvalkovskii A.V., Zvezdin K.A.
Institute of General Physics Russian Academy of Science, Moscow, Russia

AP-2/15 The influence of isovalent and heterovalent dopands on magnetic and electrical properties of ternary 3d-magnetic semiconductors
Berzhansky V.N., Evstaf'ev I.I., Lagunov I.M., Norden D.N.
V.I. Vernadsky Taurida National University, Simferopol, Ukraine

Tuesday, October 7

Plenary II

9.00-13.00

Session BA

Chairmen: Zvezdin A.K., Barbara B.

BA-L1 Materials with negative index of refraction and their properties (Invited)
Veselago V.G.
*Moscow Institute of Physics and Technology
Institute of General Physics*

BA-L2 Application of synthetic macromolecules for the targeted drug and gene delivery into human cells (Invited)
Ratner M.¹, Neelov I.², Grinyov B.³
¹*Institute for Single Crystals of NAS of Ukraine, Kharkov, Ukraine*
²*Institute of Macromolecules, St Petersburg, Russia*
³*Institute for Scintillation Materials of NAS of Ukraine, Kharkov, Ukraine*

BA-L3 New Possibilities of Functional Materials Diagnostic (Invited)
Shpak A.P., Molodkin V.B.
Institute of metallophysics NAS Ukraine

BA-L4 Dielectric properties of materials at frequencies 100-1000 GHz (Invited)
Volkov Alexander, Anzin V.B., Spektor I.E.
Institute of General Physics, Russian Academy of Sciences, Department of Submillimeter Spectroscopy, Moscow, Russia

BA-L5 Application of magnetic ceramics in nonlinear time reversal ultrasonics (Invited)
Preobrazhensky V.L.^(1,2), Pernod P.⁽²⁾
¹*Wave Research Center of General Physics Institute RAS, Moscow, Russia*
²*Institut d'Electronique, de Microelectronique et de Nanotechnologie, Ecole Centrale de Lille, France*

Section 8. Materials for Medical and Environmental Applications

9.00-14.00

Session BP (poster presentations)

Chairmen: Oshkaderov S.P., Gorobets S.V.

- BP-8/1 Influence of heterogeneity of structure of crystals NaI(Tl) on scintillation characteristic of large-sized detectors**
 Boyarintsev A., Gektin A., Pogorelova N., Slyakhturov V.
Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine
- BP-8/2 Silica functionalized by N,S-analytical reagents in ecoanalysis**
 Smyk N., Zaporozhets O.
Kyiv Taras Shevchenko National University, Kyiv, Ukraine
- BP-8/3 Scintillation material for dosimetry of Sr-90 in environmental water**
 Andryushchenko A.Yu., Budakovsky S.V., Galunov N.Z., Shevtsov N.I.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- BP-8/4 Composite materials based on organic crystals using for radiation monitoring**
 Andryushchenko A.Yu., Budakovsky S.V., Shevtsov N.I.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- BP-8/5 A system for control of unauthorized transportation of radioactive materials**
 Borodenko Yu.A., Grinyov B.V., Koval A.F., Nekrasov V.V., Piven L.A., Selegenev E.M., Udyanskiy V.P.
STC "Institute for Single Crystals", NAS of Ukraine, Research Department SELDI, Kharkov, Ukraine
- BP-8/6 A low-dose medical X-ray diagnostic apparatus for examination of internal organs of chest without using film**
 Belogub V.V., Borodenko Yu.A., Koval A.F., Nekrasov V.V., Selegenev E.M.
STC "Institute for Single Crystals", NAS of Ukraine, Research Department SELDI, Kharkov, Ukraine

- BP-8/7 X-ray introscope for non-destructive quality control of constructional materials**
Belogub V.V., Nekrasova L.N., Borodenko Yu.A.,
Selegenev E.M., Koval A.F.
STC "Institute for Single Crystals", NAS of Ukraine, Research Department SELDI, Kharkov, Ukraine
- BP-8/8 High-sensitivity spectrometric blocks of gamma-radiation detection based on the system "scintillator-photodiode"**
Belogub V.V., Borodenko Yu.A., Grinyov B.V., Didenko A.V.,
Kuvarzin I.V., Nekrasov V.V., Selegenev E.M.
STC "Institute for Single Crystals", NAS of Ukraine, Research Department SELDI, Kharkov, Ukraine
- BP-8/9 A medical probe for detection of local accumulation of radionuclides in human organism**
Belogub V.V., Borodenko Yu.A., Gektin A.V., Kuvarzin I.V.,
Nekrasov V.V., Selegenev E.M.
Institute for Single Crystals, NAS of Ukraine, Institute for Scintillation Materials, NAS of Ukraine, Research Department SELDI, Kharkov, Ukraine
- BP-8/10 An automated system for continuous radiation monitoring of environment**
Borodenko Yu.A., Garmash K.P., Grinyov B.V., Didenko A.V.,
Nekrasov V.V., Piven L.A., Selegenev E.M.,
Seminozhenko V.P., Udyanskiy V.P.
STC "Institute for Single Crystals, NAS of Ukraine, Research Department SELDI, Kharkov, Ukraine
- BP-8/11 A desk unit based on detectors of "scintillator-photodiode" type for secret control of indoor radiation situation**
Belogub V.V., Borodenko Yu.A., Didenko Al.V., Kuvarzin I.V.,
Nekrasov V.V., Selegenev E.M.
STC "Institute for Single Crystals", Research Department SELDI, Kharkov, Ukraine
- BP-8/12 A pocket gamma-radiation spectrometer for detection of radioactive radiation sources under field conditions**
Belogub V.V., Borodenko Yu.A., Didenko Al.V., Kuvarzin I.V.,
Nekrasov V.V., Selegenev E.M.
STC "Institute for Single Crystals", Research Department SELDI, Kharkov, Ukraine

- BP-8/13 New sensor materials for bioequivalent UV dosimetry based on cholesteric liquid crystals**
 Kireyeva N.A.¹, Lisetski L.N.¹, Panikarskaya V.D.¹,
 Terenetskaya I.P.²
¹*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
²*Institute of Physics, NAS of Ukraine, Kiev, Ukraine*
- BP-8/14 Porosity of reactor graphite of Chernobyl nuclear power plant unit 2**
 Bondarkova G.V., Elizarova E.V., Filatov A.S.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- BP-8/15 Vortex structure in a solution HNO₃ in a magnetic field in the vicinity of a metallic cylinder**
 Gorobets Yu.I.¹, Gorobets O.Yu.¹, Mazur S.P.²
¹*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine*
²*National Technical University of Ukraine "KPI", Kiev, Ukraine*
- BP-8/16 Method of mixing of aqueous solution by means of a magnetic field**
 Gorobets S.V.¹, Gorobets O.Yu.², Goyko I.Yu.¹
¹*National University of Food Technologies, Kiev, Ukraine*
²*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine*
- BP-8/17 Copper ion extraction from solution in a magnetic fields**
 Gorobets S.V.¹, Gorobets O.Yu.², Ukrainetz A.I.¹, Goyko I.Yu.¹,
 Kasatkina T.P.³, Losovaya O.G.³
¹*National University of Food Technologies, Kiev, Ukraine*
²*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine*
³*D. Zabolotniy Institute for Microbiology and Virology, NAS of Ukraine, Kyiv, Ukraine*
- BP-8/18 Intensification of waste water filtration in galvanic manufacture from Cr⁶⁺ ions in a magnetic field**
 Gorobets S.V.¹, Gorobets O.Yu.², Kasatkina T.P.³, Goyko I.Yu.¹
¹*National University of Food Technologies, Kiev*
²*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine*
³*D. Zabolotniy Institute for Microbiology and Virology, NAS of Ukraine, Kyiv, Ukraine*

BP-8/19 Optimization of porous structure of solid fluoroplast-4 for separation of water-fuel emulsion

Kalyuzhnyi A.B., Platkov V.Y.

*Kharkov State Technical Agriculture University, Kharkov, Ukraine**Kharkov State Economy University, Kharkov, Ukraine***Section 9. Nanophysics&Nanotechnologies****15.00-17.30****Session BB (oral presentations)****Chairmen: Pernod P., Preobrazhensky V.L.****BB-L1 Ferromagnetic nanoparticles: collective behavior and Josephson magnetometer measurements (Invited)**

Fraerman A.A.

*Institute for Physics of Microstructures RAS, Nizhny Novgorod, Russia***BB-L2 Formation of local states of magnetic ions and hyperfine fields on nuclei in magnetic superlattices (Invited)**Stetsenko P.N., Antipov S.D., Goryunov G.E.,
Smirnitskaya G.V., Krasheninnikov A.P.*M. Lomonosov Moscow State University, Faculty of Physics, Moscow, Russia***BB-L3 Nanostructures based on semiconducting self-assembled quantum dots (Invited)**Valakh M.Ya., Yukhymchuk V.O.*V. Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine***BB-9/1 Giant magnetostriction nanostructures for actuation of microsystems**Pernod P.⁽¹⁾, Preobrazhensky V.^(1,2), Le Gall H.⁽³⁾, Tiercelin N.⁽¹⁾,
Masson S.⁽¹⁾1) *IEMN-DOAE, CNRS, Ecole Centrale de Lille, Villeneuve d'Ascq, France*2) *Wave Research Center, GPI RAS, Moscow, Russia*3) *Laboratoire de Magnétisme de Bretagne, CNRS, Brest, France*

- BB-9/2 Thermoplastic Deformation of 2D Nanomaterials under Laser Influence**
 Zhuravlyov Anatoliy F.¹, Pogorelov Alexander E.²
¹*Kyiv Taras Shevchenko National University, Physics Department, Kiev, Ukraine*
²*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kiev, Ukraine*
- BB-9/3 Synthesis, structure and defectiveness of high density nanoceramics based on oxides of transition metals**
 Gigevskii B.A.¹, Kozlov E.A.², Naumov S.V.¹, Arbutov V.L.¹, Druzhkov A.P.¹, Galahkov V.R.¹, Voronin V.I.¹, Degtyarev M.V.¹, Shalnov K.V.¹
¹*Institute of Metal Physics, Ural Branch of RAS, Russia*
²*Russian Federal Nuclear Center – Research Institute of Technical Physics, Russia*
- BB-9/4 Structure correlations on nanoscale: static and dynamic effects**
 Malinovsky V.K.
Institute of Automation and Electrometry, Siberian Branch of RAS, Novosibirsk, Russia
- BB-9/5 Crystal-field transitions and macroscopic quantum tunnelling of magnetization in Mn₁₂ac studied by frequency-domain magnetic spectroscopy**
 Mukhin A.¹, Gorshunov B.¹, Vongtragool S.², van Slageren J.², Dressel M.²
¹*General Physics Institute of RAS, Moscow, Russia*
²*Universität Stuttgart, I. Physikalisches Institut, Stuttgart, Germany*
- BB-9/6 Field-Induced Phase Transitions (FIPT) in Molecular Magnets**
 Barbara B., Kostuchenko V.V., Mischenko A.S., Zvezdin A.K.
- BB-9/7 Synthesis and characterization of oxalato-bridged molecule-based magnets (cat)⁺[M^{II}M^{III}(C₂O₄)₃]: effects of dimensionality and chirality on magnetic properties**
 Ovanesyan N.S.¹, Shilov G.V.¹, Pyalling A.A.¹, Topilin S.M.¹, Kovalenko V.I.¹, Sokolov V.B.¹, Sanina N.A.¹, Gruselle M.² and Bottyan L.³
¹*Institute of Problems of Chemical Physics of RAS, Chernogolovka, Russia*
²*Laboratoire de Chimie Inorganique et Matériaux Moléculaires, Université Pierre et Marie Curie, Paris, France*
³*KFKI Research Institute for Particle and Nuclear Physics, Budapest, Hungary*

- BB-9/8 Kinetics of growth *in-situ* lead sulfide nanocrystals in ordered molecular matrixes**
Savin Yu.N., Vitushkina S.V.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- BB-9/9 Nanocomposites in systems Fe-C and Ni-C**
Makovetskii G.I.¹, Bohanov B.B.², Vaskov Dm.G.¹,
Yanushkevich K.I.¹
¹*Institute of Solid State Physics and Semiconductors, NAS of Belarus, Minsk, Belarus*
²*Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of RAS, Novosibirsk, Russia*
- BB-9/10 Digital electron and scanning probe microscopy study of nanoparticles' surface microstructure**
Grigorov I.G., Ermakov A.N., Zainulin Yu.G.
Institute of Solid State Chemistry, Ural Branch of RAS, Ekaterinburg, Russia
- BB-9/11 Use of space vehicles as a way of materials research for various industries and science**
Udaloy V.A., Sokolov N.L.
Mission Control Center and Modeling of Central Scientific and Research Institute of Machine Building, Korolev, Moscow reg., Russia

Section 9. Nanophysics&Nanotechnologies

15.00-19.00 Session BQ (poster presentations)

Chairmen: Mukhin A.A., Vorotilov K.A.

- BQ-9/1 The influence of the quantum –dimensional layers of ZnO on the transporting properties of light emitting diodes of ZnSe(Te)**
Gordeev S.I., Galkin S.N., Ryzhikov V.D., Tolmachev A.V.,
Voronkin E.F.
STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- BQ-9/2 Relativistic and correlation effects on molecular properties of linear molecules**
Styszynski Jacek
Institute of Physics, University of Szczecin, Szczecin, Poland

- BQ-9/3 On the statistics of the minimum uncertainty states for angular momentum**
 Prajsnar Stanisław
Institute of Physics, University of Szczecin, Szczecin, Poland
- BQ-9/4 Ferroelectrics templated in nanoporous membranes**
 Chuprin O.V., Mishina E.D., Sigov A.S., Vasil'ev V.A., Vorotilov K.A.
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- BQ-9/5 Kirkendall effect in PbSe-EuS multilayer nanostructure**
 Fedorov Alexander¹, Sipatov A.Yu.², Volobuev V.V.²
¹*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*
²*National Technical University "KhPI", Kharkov, Ukraine*
- BQ-9/6 Epitaxial growth of CsI(Tl) layers**
 Fedorov A.G., Tarasov V.A., Vidaj Yu.T., Ananenko A.A., Mateychenko P.V.
Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine
- BQ-9/7 Nonlinear localization in self-modulated systems**
 Gerasimchuk I.V.^{1*}, Kovalev A.S.², Maugin G.A.³
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, NAS of Ukraine, Kharkov, Ukraine*
³*Laboratoire de Modelisation en Mechanics, Universite et Marie Curie, Paris, France*
- BQ-9/8 Influence of UV-radiation on structure and properties of diamondlike α -C:N films**
 Shalaev R.V., Varyukhin V.N., Prudnikov A.M.
A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine
- BQ-9/9 Nucleation and evolution of spin spiral in Fe/SmCo bilayer**
 Kabanov Yu.P., Gornakov V.S., Nikitenko V.I. and Tikhomirov O.A.
Institute of Solid State Physics of RAS, Chernogolovka, Russia

- BQ-9/10 New inorganic-organic and nanoporous dielectric thin films**
Mishin V.V., Sigov A.S., Vasiljev V.A., Vorotilov K.A.
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- BQ-9/11 Magnetic field effects on micro- and nanostructure of copper electrodeposits**
Gorobets Yu.I., Bondar E.A., Silantiev V.I., Bondarkova G.V.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- BQ-9/12 Ferromagnetic Resonance in cobalt doped magnetite nanoparticles**
Berzhansky V.N., Polulyakh S.N., Turishev M.V., Aleksashkin I.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- BQ-9/13 The magnetostatic properties of the ferrofluids**
Berzhansky V., Vlasova T., Tupitsyn Yu., Aleksashkin I.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- BQ-9/14 Thermoexfoliated graphite – transitional metal nanocompositions**
Len T.A., Matzui L.Yu., Babich N.G., Kopan V.S., Kapitanchyk L.M.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
- BQ-9/15 Physical – Chemical model of metal oxide nanosized particles formation on graphite surface**
Ovsienko I., Vovchenko L., Fedorov Ye., Zakharenko N.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
- BQ-9/16 The creation of composition material nanostructured metal - thermoexfoliated graphite**
Vovchenko L.L., Lysov V.I., Matzui L.Yu., Fedorov V.E.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine

- BQ-9/17 Electrical and thermal conductivity of composite materials metal – graphite**
 Stelmakh O.I., Vovchenko L.L., Matzui V.I.^{*}, Daschenko Yu.I.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
^{*}*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
- BQ-9/18 Structural properties, internal stress and thermal stability of nanocomposite TiAlSiN coatings**
Nakonechna O.^{a), b)}, Zakharenko M.^{b)}
^{a)} *IPMC, FSB, EPFL, Lausanne, Switzerland*
^{b)} *Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine*
- BQ-9/19 Synthesis of titan dioxide nanocrystal powders**
 Pogibko V.M.¹, Guskova L.G.¹, Prilipko Yu.S.¹,
 Spiridonov N.A.¹, Konstantinova T.E.², Pilipenko N.P.²,
 Volkova G.K.², Goroh A.V.², Saprykin A.A.², Ischuk V.M.³,
 Vovk E.G.³
¹*Science&Technology Center “Reactivelectron”, NAS of Ukraine, Donetsk, Ukraine*
²*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
³*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
- BQ-9/20 Studies on Ni particles cluster relaxations in the magnetic field**
 Gorobets Yu.I., Gorobets S.V., Melnichuk I.A., Legenkii Yu.A.
Donetsk National University, Donetsk, Ukraine
- BQ-9/21 Interparticle interaction in the system of particles with the volume close to the critical value**
 Ol'khovik L.P., Sizova Z.I., Shurinova E.V.
V. Karazin Kharkov National University, Kharkov, Ukraine
- BQ-9/22 Optical and electronic properties of nanoporous titanium dioxide films**
 Gayvoronsky V., Brodyn M., Galas A.
Institute of Physics, NAS of Ukraine, Kiev, Ukraine

Wednesday, October 8

Section 4. Microwave Materials**9.00-13.30****Session CA (oral presentations)****Chairmen: Ivanov B.A., Zaspel C.E.**

- CA-L1 Kinetical equations and transport phenomena for the low density gas of solitons** (Invited)
Baryakhtar I.V., Baryakhtar V.G.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- CA-L2 Quantized and localized spin wave modes in non-ellipsoidal magnetic film elements** (Invited)
Slavin A.N.
Oakland University, Michigan, U.S.
- CA-L3 Microwave Signal Processing in Ferrite Films using Parametric Pumping** (Invited)
Melkov G.A.¹, Kobljanskyj Yu.V.¹, Vasyuchka V.I.¹, Slavin A.N.²
¹*Kyiv Taras Shevchenko National University, Radiophysics Department, Kyiv, Ukraine*
²*Oakland University, Department of Physics, Rochester, Michigan, U.S.*
- CA-L4 Normal modes for the vortex state magnetic dots** (Invited)
Zaspel C.E.¹ and Ivanov B.A.²
¹*Department of Environmental Sciences, University of Montana/Western Dillon, U.S.*
²*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine*
- CA-L5 Magnetoelectric effect in composite multilayer ferrite-piezoelectric structures** (Invited)
Fetisov Y.K., Bush A.A., Kamentsev K.E., Shkuratov V.Y.
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- CA-4/1 Resonance modes of layered ferromagnets in a transverse magnetic field**
Meshcheryakov V.F.
Moscow State Institute of Radio, Engineering, Electronics and Automation (Technical University), Moscow, Russia

- CA-4/2 Giant Magnetoimpedance effects in Bi:YIG thin films**
 Tehranchi M.M., Mohseni S.M., Sarkarati S.
Physics Department and Laser Research Institute, Shahid Beheshti University, Tehran, Iran
- CA-4/3 Optical visualization of spin wave field distributions in a ferrite film**
 Fetisov Y.K. and Makovkin A.V.
Moscow State Institute of Radioengineering, Electronics and Automation, Moscow, Russia
- CA-4/4 The choice of optimal ferrite composition for memorizing the signals**
 Danilov V.V., Pogorily A.M., Bilous A.G., Mykytyuk V.I.
Kyiv Taras Shevchenko National University, Kyiv, Ukraine
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
Institute of General and Inorganic Chemistry, NAS of Ukraine, Kyiv, Ukraine

Section 4. Microwave Materials

9.00-14.00

Session CP (poster presentations)

Chairmen: Melkov G.A., Fetisov Yu.K.

- CP-4/1 The reflection of the electromagnetic waves of the centimetric range by the thin amorphous metal films**
 Antonets I.V.¹, Kotov L.N.¹, Shavrov V.G.², Sheglov V.I.²
¹*Sykyvkar State University, Sykyvkar, Russia*
²*Institute of Radioengineering and Electronics of RAS, Moscow, Russia*
- CP-4/2 Microwave properties of granular structures with ferromagnetic nanoparticles**
 Lutsev L.V., Yakovlev S.V.
Research Institute "Ferrite-Domen", Problem Laboratory, St. Petersburg, Russia
- CP-4/3 The effect of domain-walls motion on field dependence of second-harmonic amplitude in magneto-impedance response in Co-based amorphous wires**
 Buznikov N.A., Antonov A.S., Rakhmanov A.L.
Institute for Theoretical and Applied Electrodynamics of RAS, Moscow, Russia

- CP-4/4 Investigation of microwave signal attenuation in nonlinear spin wave phase shifter**
Timofeeva M.A., Ustinov A.B.
St. Petersburg Electrotechnical University, St. Petersburg, Russia
- CP-4/5 Observation of ferrite-film self-heating in nonlinear spin-wave microwave interferometer**
Ustinov Alexei B.
St. Petersburg Electrotechnical University, St. Petersburg, Russia
- CP-4/6 Microwave Properties of Thin BSTO Films for High Frequency Applications in Temperature Range 190-350 K**
Tumarkin A.V., Razumov S.V., Gagarin A.G., Gaidukov M.M., Kozyrev A.B.
St.Petersburg Electrotechnical University, St.Petersburg, Russia
- CP-4/7 Magnonic ferrite thin films with periodic structure**
Gulyaev Yu.V., Nikitov S.A., Zhivotovski L.V., Klimov A.A., Vysotski S.V.*, Filimonov Yu.A.*
Institute of Radioengineering and Electronics, Russian Academy of Sciences, Moscow, Russia
**Institute of Radioengineering and Electronics, Russian Academy of Sciences, Saratov Branch, Saratov, Russia*
- CP-4/8 Refraction and reflection of bulk spin waves on a boundary of two dielectric ferromagnets having two-axis anisotropy**
Gorobets Yu.I., Reshetnyak S.A.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- CP-4/9 Spin waves in a cylindrical magnonic crystal**
Kruglyak V.V.¹ and Kuchko A.N.²
School of Physics, University of Exeter, Stocker road, Exeter, UK
Donetsk National University, Donetsk, Ukraine
- CP-4/10 Molecule at the surface of a phase conjugator: Influence of the local effects on an absorption spectrum of an external field**
Demidenko Yu.V., Lozovski V.Z.
V. Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine
- CP-4/11 Electromagnetic eigenmodes of the superconductor nano-disk**
Lozovski V.*, Glumova M.**, Reznik D.*
**Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine*
***V. Vernadsky Taurida National University, Simferopol, Ukraine*

- CP-4/12 Multiresonance method of the measurement of total reflection coefficient in a waveguide**
Ponomarenko V.I., Popov V.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- CP-4/13 Dimension effect of the dielectric permittivity of water**
Shermatov Erkin N.
Department of Physics, Samarkand State University, Samarkand, Uzbekistan.
- CP-4/14 The peculiarities of magnetostatic wave soliton propagation in ferrite film**
Galishnikov A.A., Dudko G.M., Filimonov Yu.A.
Institute of Radioengineering and Electronic RAS, Saratov Branch

Section 6. Piezoelectric Materials

9.00-14.00 Session CQ (poster presentations)

Chairmen: Aleksandrov K.S., Sigov A.S.

- CQ-6/1 Condenser and resonator ceramics with low sintering temperature**
Vovk E.A., Deineka T.G., Ishchuk V.M., Mateichenko P.V.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- CQ-6/2 Study of reactivity of different crystalline modifications of zirconium oxide at PbZrO_3 synthesis**
Vovk E.A., Deineka T.G., Ishchuk V.M., Volkova G.K.*, Konstantinova T.E.*
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
**A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
- CQ-6/3 Highly effective piezoelectric ceramic materials with low temperature of sintering**
Spiridonov N.A.¹, Gusakova L.G.¹, Dorofeyeva V.V.¹,
Ishchuk V.M.², Spiridonov V.N.³
1 Science&Technology Center "Reactivelectron", NAS of Ukraine, Donetsk, Ukraine
2 Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
3 Donetsk National University, Donetsk, Ukraine

- CQ-6/4 Peculiarities of PbTiO₃ synthesis at the use of different modifications of PbO and TiO₂**
 Gusakova L.G.¹, Pogibko V.M.¹, Prilipko Yu.S.¹,
 Spiridonov N.A.¹, Saley V.S.¹, Konstantinova T.E.²,
 Volkova G.K.², Gorokh A.V.², Ischuk V.M.³, Vovk E.G.³
¹Science&Technology Center "Reactivelectron", NAS of Ukraine,
 Donetsk, Ukraine
²A. Galkin Institute for Physics and Engineering, NAS of Ukraine,
 Donetsk, Ukraine
³Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- CQ-6/5 Solid solutions KNO₃-KClO₃ with ferroelectric properties**
 Ishchuk V.M., Velikhov Yu.N., Panikarskaya V.D. and
 Teplitskaya T.S.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- CQ-6/6 Materials with ferro- antiferroelectric phase transition meant for energy accumulating-converting means**
 Ishchuk V.M.¹, Spiridonov N.A.²
¹Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
²Science&Technology Center "Reactivelectron", NAS of Ukraine,
 Donetsk, Ukraine
- CQ-6/7 Crystallization behaviour of barium-strontium titanate film**
 Burmistrova P.V.**, Chuprin O.V.*, Sigov A.S.*, Vasil'ev V.A.*,
 Vorotilov K.A.*, Zacharov D.N.**, Zhigalina O.M.**
 *Moscow State Technical University of Radioengineering, Electronics
 and Automation, Moscow, Russia
 ** Institute of Crystallography of RAS, Moscow, Russia
- CQ-6/8 X-ray structural and electron microscopy study of phase formation during the process of obtaining of LaBSiO₅ pyroelectric by chemical method**
 Doroshkevich A.S.¹, Saprykin A.A.¹, Danilenko I.A.¹,
 Konstantinova T.E.¹, Volkova G.K.¹, Glazunova V.A.¹,
 Pogibko V.M.², Gusakova L.G.²
¹A. Galkin Institute for Physics and Engineering, NAS of Ukraine,
 Donetsk, Ukraine
²Science&Technology Center "Reactivelectron", NAS of Ukraine,
 Donetsk, Ukraine
- CQ-6/9 Synthesis and study of the compounds in the Bi₄Ti₃O₁₂ – BiFeO₃ system**
 Morozov Maxim, Lomanova Natalja, Gusarov Victor
Institute of Silicate Chemistry of RAS, St. Petersburg, Russia

- CQ-6/10** Calculations of the dipole electronic polarizability of ions in lithium niobate crystal at temperature range (273 ÷ 873)K
Shostak R.I., Yatsenko A.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- CQ-6/11** The electrostatic model of the α -LiIO₃ pyroelectric crystal
Fomin A.V., Yatsenko A.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- CQ-6/12** Investigation of the proton exchange peculiarities in LiNbO₃ ferroelectric crystals
Yevdokimov S.V., Yagupov S.V., Yatsenko A.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- CQ-6/13** Simulation of the local electric field in tetragonal phase of BaTiO₃
Yatsenko A.A., Yatsenko A.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- CQ-6/14** Computer modeling of the crystal tensor properties
Maksimova E.M.
V. Vernadsky Taurida National University, Simferopol, Ukraine

Thursday, October 9

Section 1. Magnetic materials 1

9.00-12.00

Session DA (oral presentations)

Chairmen: Lyubutin I.S., Filippov B.N.

- DA-L1** Breakdown of strong electronic correlations in magnetic oxides under high pressure (Invited)
Lyubutin I.S.¹, Gavriiliuk A.I.², Trojan I.A.² and Sarkissian V.A.¹
¹*Institute of Crystallography of RAS, Moscow, Russia*
²*Institute for High Pressure Physics of RAS, Troitsk, Moscow reg., Russia*
- DA-L2** Nonlinear dynamic of domain walls with vortex internal structure in thin magnetic films with uniaxial and cubic magnetic anisotropy (Invited)
Filippov B.N., Korsunin L.G., Kassan-Ogly F.A.
Institute of Metal Physics of RAS, Ural Branch, Ekaterinburg, Russia

- DA-1/1 Nonlinear dynamics of the domain wall in a variable field in the thin magnetic films**
 Asadullin F.F.¹, Koledov V.V.², Kotov L.N.³, Poleshikov S.M.¹, Tulaikova A.A.², Shavrov V.G.²
¹*Syktvykar Forest Institute, Syktvykar, Russia*
²*Institute of Radioengineering and Electronics of RAS, Moscow, Russia*
³*Syktvykar State University, Syktvykar, Russia*
- DA-1/2 Regularities of thermodynamical mechanisms elastically anisotropy deformed stresses of T-H-P influence and its role in the critical lines and points of magnetic dielectrics**
 Polyakov P.I.¹, Kucherenko S.S.²
¹*Institute of Mining Processes Physics, Donetsk, Ukraine*
²*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
- DA-1/3 Anomalously large magnetostriction caused by transformation of the magnetoelastic domains**
 Kalita V.M.¹, Lozenko A.F.², Ryabchenko S.M.², Trotsenko P.A.², Yatkevich T.M.²
¹*National Aviation University, Kiev, Ukraine*
²*Institute of physics NAS U, Ukraine*
- DA-1/4 Nonlinear dynamics of the magnetization in ferrite nanoparticles in the area of the magnetoacoustic resonance**
 Vlasov V.S., Kotov L.N.
Syktvykar State University, Syktvykar, Russia
- DA-1/5 The domain structure of two-layered magnetic films with the different characteristics of layers**
 Bezus A.V., Mamalui J.A., Siryuk J.A.
Donetsk National University, Physics Department, Donetsk, Ukraine
- DA-1/6 Phase diagram of reorientation phase transition in uniaxial ferrit-garnet magnetic film in external magnetic field**
 Leonov A.A., Mamalui J.A.
Donetsk National University, Physics Department, Donetsk, Ukraine
- DA-1/7 The in-plane magnetization reversal of iron garnet films with mixed cubic and uniaxial anisotropy**
 Ubizskii S.B.^{1,2}, Bondar V.I.², Syvorotka I.I.²
¹*Lviv Polytechnic National University, Lviv, Ukraine*
²*R&D Institute of Materials, SRC "Carat", Lviv, Ukraine*

- DA-1/8 The dissipation of energy of π domain wall in the field of defects**
 Baryakhtar V.G., Gorobets Yu.I., Dzhezherya Yu.I., Sorockin M.V.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kiev, Ukraine
- DA-1/9 High-field Electron Spin Resonance Measurements of magnetic Phase Transition in magneto-electric BiFeO₃**
 Pyatakov A.¹, Zvezdin A.¹, Zvyagin S.², Ruette B.¹, Viehland D.¹, Li J.F.¹, Belotelov V.¹, Bush A.⁴
¹*Institute of General Physics of RAS, Moscow, Russia*
²*The National High Magnetic Field Laboratory, Tallahassee, U.S.*
³*Department of Materials Science and Engineering, Virginia Tech, Blacksburg, U.S.*
⁴*Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia*
- DA-1/10 Hyperfine Magnetic Fields at ¹¹⁹Sn and ⁵⁷Fe in Chalcogenide Spinels**
 Dmitrieva T.V.¹, Ovanesyan N.S.², Sarkissian V.A.¹, Stepin A.S.¹ and Lyubutin I.S.¹
¹*Institute of Crystallography of RAS, Moscow, Russia*
²*Institute of Problems of Chemical Physics of RAS, Chernogolovka, Russia*
- DA-1/11 Mössbauer diffraction studies of surface magnetization processes in iron borate single crystals**
 Sarkissian V.
Institute of Crystallography of RAS, Moscow, Russia

Section 1. Magnetic Materials

9.00-14.00

Session DP (poster presentations)

Chairmen: Mamalui J.A., Kuz'min E.V.

- DP-1/1** **Detection of nonlinear parameter of a medium by phase modulation of phase conjugate ultrasonic wave**
 Pylnov Yu.V.¹, Preobrazhensky V.L.^{2,3}, Krutyansky L.M.², Pernod Ph.³
¹*Moscow Institute of Radioengineering, Electronics and Automation, Moscow, Russia*
²*Wave Research Center of the General Physics Institute of RAS, Moscow, Russia*
³*Institut d'Electronique, de Microélectronique et de Nanotechnologie, Ecole Centrale de Lille, Villeneuve d'Ascq Cédex, France*
- DP-1/2** **Magnetostriction of ferrite NiFe_{0.5}Cr_{1.5}O₄ with ions Ni²⁺ having orbital triplet as basic state**
 Antoshina L.G., Annaev R.R.
M. Lomonosov Moscow State University, Faculty of Physics, Moscow, Russia
- DP-1/3** **The Spectrum of Non-linear Magneto-elastic Waves in a Cubic Ferromagnet**
 Vakhitov R.M., Ryakhova O.G.
Bashkir State University, Ufa, Russia
- DP-1/4** **Frequency dependence of sound wave amplitude in Iron Borate under magnetic birefringence conditions**
 Strugatsky M.B.¹, Skibinsky K.M.¹, Tarakanov V.V.², Khizhnyi V.I.²
¹*V. Vernadsky Taurida National University, Simferopol, Ukraine*
²*O. Usikov Institute for Radiophysics and Electronics, Kharkov, Ukraine*
- DP-1/5** **A model presentation of reverse magnetization nuclei in real crystals**
 Vakhitov R.M.¹, Yumaguzin A.R.², Muslimov I.R.¹
¹*Bashkir State University, Ufa, Russia*
²*RGTEU, Russia*

- DP-1/6** **The dissipation of energy of π domain wall in the field of defects. The film thickness influence**
 Dzhezherya Yu.I., Sorockin M.V.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kiev, Ukraine
- DP-1/7** **The coercivity of the ferromagnetic with point defects**
 Dzhezherya Yu.I., Sorockin M.V.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kiev, Ukraine
- DP-1/8** **Influence of Stripe DS orientation on the yield of the secondary electrons**
 Melnichuk I.A.¹, Vas'ko E.I.¹, Melnychuk P.I.²
¹*Donetsk National University, Donetsk, Ukraine*
²*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
- DP-1/9** **Resonance Character of Amplitude Displacement of a Domain Wall in the Field of an Acoustic Wave**
 Gerasimchuk V.S. and Shitov A.A.
Donbass State Academy of Civil Engineering, Makeevka, Ukraine
- DP-1/10** **Investigation of epitaxial garnet ferrite films with increased coercivity by roentgen-diffractonal method**
 Yagupov V.S., Yagupov S.V., Prokopov A.R., Dubinko S.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/11** **Determination of the angle of the magnetization vector tilt to the plane of the magnetic by the magneto-optical method**
 Prokopov A.R., Karpenko N.I., Dubinko S.V. and Shaposhnikov A.N.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/12** **The domain structure of epitaxial garnet ferrite films with increased coercivity near the Curie temperature**
 Mikherskii R.M., Dubinko S.V., Vishnevski V.G., Prokopov A.R. and Nedviga A.S.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/13** **(11n) garnet ferrite film remagnetization anisotropy**
 Butrim V.I., Dubinko S.V. and Prokopov A.R.
V. Vernadsky Taurida National University, Simferopol, Ukraine

- DP-1/14 Phase transitions in 2D ferromagnetics with biquadratic exchange interaction**
 Fridman Yu.A., Klevets Ph.N., Kozhemyako O.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/15 Phase states and long-range magnetic order in a 2D non-Heisenberg ferromagnet**
 Fridman Yu.A., Kozhemyako O.V., Eingorn B.L.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/16 Influence of the magnetic field on the multidomain state of the layered antiferromagnets**
 Kalita V.M.¹, Lozenko A.F.², Trotsenko P.A.², Yatkevich T.M.²
¹National Aviation University, Kiev, Ukraine
²Institute of Physics, NAS of Ukraine, Kiev, Ukraine
- DP-1/17 Magnetic and electric properties of warwickite $\text{Fe}_{1.91}\text{V}_{0.09}\text{BO}_4$**
 Balaev A.D.¹, Baykov O.A.¹, Vasil'ev A.D.¹, Velikanov D.A.¹,
 Ivanova N.B.², Kazak N.V.¹, Ovchinnikov S.G.¹,
 Abd-Elmeguid M.³, Rudenko V.V.¹
 1) L. Kirensky Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, Russia
 2) Krasnoyarsk Technical University, Krasnoyarsk, Russia
 3) II. Physikalisches Institut, Universität zu Köln, Köln, Germany
- DP-1/18 Quasirelativistic antiferromagnetic vortices inside quasirelativistic domain wall of yttrium orthoferrite**
 Chetkin M.V., Kurbatova Yu.N., Shapaeva T.B.
Department of Physics of Moscow State University, Russia
- DP-1/19 Magnetization processes in stressed Iron Borate monocrystals**
 Strugatsky M.B., Yagupov S.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/20 Iron Borate synthesis conditions by using differential thermal analysis method**
 Nepevnaya N.V., Strugatsky M.B., Yagupov S.V., Yagupov V.S.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DP-1/21 Isoentropic reversible magnetization of rare earth Ising metamagnets at low temperature**
 Krynetskii I.B.¹, Matveev V.M.² and Matveev V.V.
¹M. Lomonosov Moscow State University, Physical Faculty Moscow
²FSUF F.V.Lukin Research Institute for Physical Problems

Section 1. Magnetic materials 2

15.00-17.30

Session DB (oral presentations)

Chairmen: Gorobets Yu.I., Loktev V.M.

- DB-L1 Magnetoelastic mechanism of the reversible domain structure formation in antiferromagnets** (Invited)
Gomonay Helen, Loktev Vadim
National Technical University ``KPI``, Kyiv, Ukraine
- DB-1/1 Cluster Dynamical-Mean Field Study of the Metal-to-Insulator Transition in Paramagnetic Ti_2O_3**
Poteryaev Alexander I.¹, Lichtenstein Alexander I.¹, Kotliar Gabriel²
¹*Electronic Structure of Materials, NSRIM University of Nijmegen, Nijmegen, The Netherlands*
²*Serin Physics Laboratory, Rutgers University, NJ, U.S.*
- DB-1/2 Quantum spin liquid and antiferromagnetism**
Kuz'min E.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- DB-1/3 Crystal structure and magnetism of mixed copper-cobalt ludwigite $Cu_{2-x}Co_xGaBO_5$**
Bezmaternykh L.N.¹, Ovchinnikov S.G.^{1,2}, Balaev A.D.¹,
Beluschenko S.V.³, Gudim I.A.¹, Vasiliev A.D.¹,
Potseluyko A.M.¹, Zabluda V.N.¹
¹*L. Kirensky Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, Russia*
²*Siberian Aerospace University, Krasnoyarsk, Russia*
³*Krasnoyarsk State Technical University, Krasnoyarsk, Russia*
- DB-1/4 Dynamic transformation of domain walls structure in orthoferrites near the speed of sound**
Shamsutdinov M.A., Ekomasov E.G., Shamsutdinov D.M.
Bashkir State University, Ufa, Russia
- DB-1/5 Properties of «thin» structure domain walls in rare-earth orthoferrites**
Ekomasov E.G., Shabalin M.A., Gaeva O.B.
Bashkir State University, Ufa, Russia

- DB-1/6** **Magnetic phase transitions in rare earth ferrobates**
 Balaev A.D.¹, Bezmaternykh L.N.¹, Gudim I.A.¹,
 Ovchinnicov S.G.^{1,2}, Harlamova S.A.¹, Potseluyko A.M.¹,
 Temerov V.L.¹, Zabluda V.N.¹
¹*L. Kirensky Institute of Physics, Siberian Branch of RAS, Krasnoyarsk, Russia*
²*Siberian Airocosmic University, Krasnoyarsk, Russia*
- DB-1/7** **Supersonic domain wall excitation of magnetoelastic waves in weak ferromagnetics**
 Kuz'menko A.P., Sukhov P.K., Li Cz., Mazur E.A., Markov A.N.
Khabarovsk State University of Technology, Khabarovsk, Russia
- DB-1/8** **Spin-wave theory of non-Heisenberg antiferromagnet with S=1**
 Fridman Yu.A., Spirin D.V., Klevets Ph.N.
V. Vernadsky Taurida National University, Simferopol, Ukraine

Section 10. Physical Methods for Study of Functional Materials

15.00-19.00 Session DQ (poster presentations)

Chairmen: Molodkin V.B., Sergeev N.A.

- DQ-10/1** **Radiographic reconstruction of the effective atomic number of materials**
 Naydenov S.V., Ryzhikov V.D.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
- DQ-10/2** **Environmental effects in dynamics of large spin magnetic clusters in a swept magnetic field**
Plokhov D.I., Zvezdin A.K.
Institute of General Physics of RAS, Moscow, Russia
- DQ-10/3** **Investigation of localized states in cadmium zinc telluride crystals by scanning photodielectric spectroscopy**
 Komar V.K., Migal V.P., Chugai O.N., Puzikov V.M.,
Nalivaiko D.P., Grebenyuk N.N.
STC "Institute for Single Crystals", Center of Optical and Constructional Crystals, NAS of Ukraine, Kharkov, Ukraine
- DQ-10/4** **Internal friction in undislocation Si**
 Kulish N.P., Onanko A.P.
Kyiv Taras Shevchenko National University, Physics Department, Faculty of Physics of Functional Materials, Kyiv, Ukraine

- DQ-10/5 Diffusive saturation of fullerenes by radioactive isotopes**
 Dmitrenko O.P.¹, Kulish N.P.¹, Zhuravlyov A.F.¹, Mazanko V.F.²,
 Pogorelov A.E.², Tyshkevich V.M.²
1 Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
2 G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- DQ-10/6 Acoustic Emission Method for Study of Functional Materials**
 Lyashenko O.V., Kravtsov M.V., Veleshchuk V.P.
Kyiv Taras Shevchenko National University, Kyiv, Ukraine
- DQ-10/7 Electron-electron interactions in molecules and molecule crystals**
 Piryatynski Yu.P., Repetsky Ye.S., Shatnii T.D.
Institute of Physics, NAS of Ukraine, Kyiv, Ukraine
**Taras Shevchenko Kiev National University, Kyiv, Ukraine*
- DQ-10/8 Spectroellipsometry of chromium oxide films grown on stainless surfaces**
 Poperenko L.V., Maitz M.F.¹, Vinnichenko M.V., Nosach D.V.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
¹Institute of Ion Beam Physics and Materials Research, Forschungszentrum Rossendorf, Dresden, Germany
- DQ-10/9 Nonconventional methods of creation and characterization of new materials**
 Pogorelov A.E.¹, Pogoryelov Ye.A.², Zhuravlyev A.F.²
¹G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
²Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- DQ-10/10 How functional properties of materials are formed?**
 Shermatov Erkin N.
Department of Physics, Samarkand State University, Samarkand, Uzbekistan
- DQ-10/11 Arrangement of dislocations within ruby single crystals under high-temperature loading conditions**
 Bosin M.Ye., Zvyagintseva I.F., Zvyagintsev V.N.,
 Lavrientiyev F.F., Nikiforenko V.N.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine

DQ-10/12 Flexible controllers of the external experimental devices on a PC-ISA (PCI) compatible board

Levchenko D.A., Sapiga A.V., Yevdokimov S.V., Yatsenko A.V.
V. Vernadsky Taurida National University, Simferopol, Ukraine

DQ-10/13 Model of water diffusion in a natrolite

Sapiga A.V.^{a)}, Sergeev N.A.^{b)}

^{a)}*V. Vernadsky Taurida National University, Simferopol, Ukraine*

^{b)}*Institute of Physics, University of Szczecin, Poland*

DQ-10/14 Mössbauer investigation of system $\text{Cu}_x\text{Ni}_{0.4-x}\text{Fe}_{0.6}[\text{Ni}_{0.6}\text{Cr}_{1.4}]\text{O}_4$

Antoshina L.G., Opalenko A.A., Kokorev A.I., Firov A.I.

M. Lomonosov Moscow State University, Faculty of Physics, Moscow, Russia

DQ-10/15 Hyperfine fields on nucleus of diamagnetic atoms in magnetics

Berzhansky V.N., Sorokin Yu.V.

V. Vernadsky Taurida National University, Simferopol, Ukraine

DQ-10/16 ^{139}La NMR study of cubic perovskite $\text{SrLaCo}_2\text{O}_6$

Pokatilov V.S., Kabanov I.B.

Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia

DQ-10/17 Markovian and Non-Markovian processes of molecular mobility and NMR of mineral natrolite

Olszewski M.^{a)}, Sergeev N.A.^{a)}, Sapiga A.V.^{b)}

^{a)}*Institute of Physics, University of Szczecin, Poland*

^{b)}*V. Vernadsky Taurida National University, Faculty of Physics, Simferopol, Ukraine*

DQ-10/18 NMR and NQR investigations of lattice dynamics in $(\text{CH}_3)_2\text{CHCdBr}_3$

Baisa D.F., Chesnokov E.D., Czaplak Z.* , Ovcharenko A.I., Pogrebnyak S.V., Vertegel I.G.

Institute of Physics, National Academy of Sciences, Kiev, Ukraine

**Institute of Experimental Physics, University of Wrocław, Wrocław, Poland*

DQ-10/19 Br⁷⁹ quadrupole spin-lattice relaxation in ferroelectric
(CH₃)₄NCdBr₃
Baisa D.F., Chesnokov E.D., Czaplá Z.*, Ovcharenko A.I.,
Vertegel I.G.

Institute of Physics, National Academy of Sciences, Kiev, Ukraine

**Institute of Experimental Physics, University of Wrocław, Wrocław,
Poland*

DQ-10/20 Coherent NMR – spectrometer for magnetic materials

Berzhansky V.N., Polulyakh S.N., Rudenko V.V.,
Tupitsin Yu.V.

V. Vernadsky Taurida National University, Simferopol, Ukraine

DQ-10/21 Frequency Synthesizer for a coherent spectrometer of nuclear
magnetic resonance

Berzhansky V.N., Polulyakh S.N., Tupitsin Yu.V.

V. Vernadsky Taurida National University, Simferopol, Ukraine

DQ-10/22 ⁵³Cr NMR Relaxation in CuCr_{2-x}Sb_xS₄ Spinel

Berzhansky V.N., Gorbovanov A.I., Polulyakh S.N.,
Aminov T.G., Shabunina G.G.

V. Vernadsky Taurida National University, Simferopol, Ukraine

DQ-10/23 NMR method used for investigation of water mobility in porous
crystal

Sapiga A.V.^{a)}, Sergeev N.A.^{b)}

^{a)} V. Vernadsky Taurida National University, Simferopol, Ukraine

^{b)} Institute of Physics, University of Szczecin, Szczecin, Poland

DQ-10/24 X-ray topographic investigation of corundum monocrystals

Seleznev A.V., Strugatsky M.B., Yagupov S.V., Yagupov V.S.

V. Vernadsky Taurida National University, Simferopol, Ukraine

Friday, October 10

Section 3. Magneto-optic Materials

9.00-11.00

Session EA (oral presentations)

Chairmen: Veselago V.G., Belyaeva A.I.

- EA-L1 Magneto-optics and electro-optics of 2D-photonic crystals** (Invited)
 Belotelov V.I.^{1,2}, Perlo P.³, Zvezdin A.K.², Gaponenko N.V.
¹*M. Lomonosov Moscow State University, Faculty of Physics, Physics of Oscillations Department, Moscow, Russia*
²*Institute of General Physics, RAS, Moscow, Russia*
³*Ctr. Ricerche Fiat, Orbassano, Italy*
- EA-L2 Magnetic photonic crystals** (Invited)
 Lyubchanskii I.L.¹, Dadoenkova N.N.¹, Lyubchanskii M.I.¹,
 Shapovalov E.A.¹ and Rasing Th.²
¹*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine*
²*NSRIM Institute, University of Nijmegen, Nijmegen, the Netherlands*
- EA-L3 Optical properties of surfaces and interfaces of variety of functional materials** (Invited)
 Belyaeva Alla I., Galuza Alex A., Kudlenko Anna D.,
 Kolomiets Serge N.
National Technical University "Kharkov Politechnical Institute", Kharkov, Ukraine
- EA-3/1 Magneto-optical study of CoFeB/SiO₂ and CoFeZr/Al₂O₃ granular magnetic structures**
Kalashnikova A.M.¹, Pavlov V.V.¹, Pisarev R.V.¹, Kalinin Yu.E.²,
 Sitnikov A.V.² and Stognei O.V.²
¹*A. Ioffe Institute for Physics and Engineering of RAS, St. Petersburg, Russia*
²*Voronezh State Technical University, Voronezh, Russia*

Section 3. Magneto-optic Materials

9.00-14.00

Session EP (poster presentations)

Chairmen: Pavlov V.V., Lyubchanskii I.L.

- EP-3/1 Magneto-optical properties of photonic crystals**
Belotelov V.I.^{1,2}, Zvezdin A.K.¹, Pyatakov A.P.^{1,2}, Kotov V.A.¹,
 Barbero G.³, Molchan I.S.
1-Institute of General Physics of RAS, Moscow, Russia
2-M. Lomonosov Moscow State University, Physics Faculty, Physics
of Oscillations Department, Moscow, Russia
3-Torino Politecnico, Italia
- EP-3/2 Domain wall in cubic magnetic crystal with photoinduced magnetic anisotropy**
Antoniuk O.A., Kovalenko V.F., Tychko O.V.
Kyiv Taras Shevchenko National University, Radiophysics Department, Kyiv, Ukraine
- EP-3/3 Photoinduced changes of magnetic anisotropy in substituted garnets**
Makarov Denis, Tychko Alexander V., Kovalenko Valery F.
Kyiv Taras Shevchenko National University, Radiophysics Department, Kyiv, Ukraine
- EP-3/4 Domain structure influence on electromagneto-optical effects in ferrite garnet epitaxial films**
Kovalenko V.F., Koronovskiy V.E.
Kyiv Taras Shevchenko National University, Radiophysics Department, Kiev, Ukraine
- EP-3/5 Nucleation during photoinduced spin reorientation transition**
Kovalenko V.F., Tychko A.V.
Kyiv Taras Shevchenko National University, Radiophysics Department, Kiev, Ukraine
- EP-3/6 Influence of order on magneto-optical properties of nanocomposite FePt-SiO₂**
Gan'shina E., Kochneva M., Vashuk M., Aimuta K*,
Nishimura K*, Inoue M.
M. Lomonosov Moscow State University, Moscow, Russia
** Toyohashi University of Technology*

- EP-3/7** **Manifestation of the dimension effect in vibration spectra**
Shermatov Erkin N., Erkaev Shuhrat T.
Samarkand State University, Department of Physics, Samarkand, Uzbekistan
- EP-3/8** **Magnetorefractive Effect in a Thin Dielectric Film**
Dzhezheriya Yu.I., Kravets A.F., Luganskii D.V.
Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine
- EP-3/9** **Optical properties of GGG:Fe³⁺,Er³⁺,Tm³⁺ films**
Prudnikov A.M., Varyukhin V.N., Shalaev R.V.
A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine
- EP-3/10** **Scanning near-field optical microscopy of magnetic structures**
Belotelov V.I.^{1,2}, Logginov A.S.¹, Nikolaev A.V.¹,
Pyatakov A.P.^{1,2}, Zvezdin A.K.²
¹M. Lomonosov Moscow State University, Faculty of Physics, Physics of Oscillations Department, Moscow, Russia
²Institute of General Physics of RAS, Moscow, Russia
- EP-3/11** **Multilayer polymer-crystalline cutoff and band pass interference systems**
Belyaeva A.I., Kolomiets S.N.
Kharkov Technical University "Kharkov Polytechnical Institute", Kharkov, Ukraine
- EP-3/12** **Influence of strain on the Faraday rotation in yttrium-iron garnet**
Shishmakov A.L., Dadoenkova N.N., Lyubchanskii M.I. and Lyubchanskii I.L.
A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine
- EP-3/13** **New Optical Active Materials On The Base of Functional Copolymers and Low Molecular Mass Dopants Stabilized by Noncovalent Interactions**
Medvedev A.V., Medvedev A.S., Mihailapov I., Barmatov E.B., Ivanov S.A., Shibaev V.P.
M. Lomonosov Moscow State University, Chemistry Department, Moscow, Russia

- EP-3/14 Visualization of magnetic fields with use of ferrite garnet films with in-plane anizotropy**
 Vinogradov A.N., Vishnevski V.G., Butrim V.I., Dubinko S.V., Levy S.V.*
V. Vernadsky Taurida National University, Simferopol, Ukraine
 *National Technical University "Kiev Politechnical Institute", Kiev, Ukraine
- EP-3/15 Some aspects of building magnetooptical transducers for thermal replication of data**
 Vishnevski V.G., Dubinko S.V., Nedviga A.S., Shumilov A.G. and Prokopov A.R.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- EP-3/16 Method for the in-line control of polarization sensitivity in biconical fused single-mode fiber-optical couplers**
 Basiladze G.D., Dolgov A.I. and Berzhansky V.N.
V. Vernadsky Taurida National University, Simferopol, Ukraine

Section 5. Scintillation materials

11.30-13.00

Session EB (oral presentations)

Chairmen: Grinyov B., Globus M.

- EB-L1 A possibility to obtain structural perfect ZnSe crystals by doping them with tellurium (Invited)**
 Atroshchenko L.V., Galkin S.N., Rybalka I.A., Ryzhikov V.D., Fedorov A.G.
STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- EB-5/1 Progress in the development of scintillation materials for nuclear medicine and biology**
¹Globus M., ¹Grinyov B., ²Ratner M., ¹Lyubinskiy V.
¹*Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine*
²*Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine*
- EB-5/2 Formation and Characterization of biocompatible hydroxyapatite coatings grown from aqueous solution on metal substrates**
 Kryzhanovskaya Alexandra S., Savin Yuri N., Tolmachev Alexander V.
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine

EB-5/3 Luminescence of doped with chromium ions some oxide crystals

Nedilko S.

*Kyiv Taras Shevchenko National University, Kyiv, Ukraine***EB-5/4 Growth of CdS:Te single crystals for scintillation detectors**Melnikov A.A.^a, Melnikova T.V.^a, Glebkin A.A.^a, Sigov A.S.^a,
Sopov V.S.^b, Vorotilov K.A.^a^a *Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia*^b *Institute of Theoretical and Experimental Physics, Moscow, Russia***Section 5. Scintillation Materials****9.00-14.00****Session EQ (poster presentations)****Chairmen: Tolmachev A.V., Nedilko S.G.****EQ-5/1 On the optimum shapes of ZnSe-based scintillation elements**Ryzhikov V., Katrunov K., Naydenov S., Starzhinskiy N.,
Galhinetskii L., Yanovsky V.*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine***EQ-5/2 Studies of photoactive states of ZnSe-based scintillators by scanning photodielectric spectroscopy**Ryzhikov V.D., Starzhinskiy N.G.*, Migal' V.P.***, Chugai O.N.***,
Abashin S.L.***, Katrunov K.A.*, Klimenko I.A.***, Oleinik S.V.***,
Sulima S.V.*****STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine****National Aerospace University, Kharkov, Ukraine***EQ-5/3 Radiation-induced changes in dielectric and photoelectric properties of A^{II}B^{VI} crystals**Ryzhikov V.¹, Starzhinskiy N.¹, Migal' V.², Chugai O.²,
Komar' V.¹, Klimenko I.², Katrunov K.¹, Abashin S.², Oleinik S.²,
Sulima S.², Rybalko I.¹, Zenya I.¹¹*STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine*²*National Aerospace University, Kharkov, Ukraine*

- EQ-5/4 On luminescence kinetics of scintillators used in x-ray introscopy systems**
 Ryzhikov V., Grinyov B., Starzhinskiy N., Spasov V., Nagornaya L., Katrunov K., Zenya I. and Vyagin O.
 STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- EQ-5/5 Anisotropy of mechanical properties and microstresses in oxide single crystals for inorganic scintillators**
Babiychuk I.P., Baumer V.N., Bondar V.G., Grinyov B.V., Krivoshein V.I., Nagornaya L.L., Pirogov E.N., Ryzhikov V.D.
 STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- EQ-5/6 Preparation and properties of the scintillation single crystals with a guaranteed stabilization of the thermal conditions**
Suzdal V.S., Gerasimchuk L.I., Strelnikov N.I., Epifanov U.M., Zvyagincev V.N., Tavrovsky I.I.
 STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- EQ-5/7 Effects of thermal treatment on oxidation-reduction processes in two scintillators in a controlled medium**
 Babiychuk I., Bondar V., Katrunov K., Krivoshein V., Maly P., Pirogov E., Ryzhikov V., Starzhinskiy M.
 STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- EQ-5/8 Scintillation properties of isovalently activated ZnSe crystals**
¹Ryzhikov V., ¹Starzhinskiy N., ²Klamra W., ¹Danshin E., ¹Katrunov K., ¹Silin V., ¹Zelenskaya O., ¹Tarasov V., ¹Chernikov V.
¹STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
²Royal Institute of Technology, Stockholm, Sweden
- EQ-5/9 Luminescence of Li₆Gd(BO₃)₃ crystals with different dopants**
 Yavetskiy R.P., Korshikova T.I., Shekhovtsov A.N., Tolmachev A.V., Dubovik M.F.
 Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine

- EQ-5/10 Growing of CdZnTe single crystals and registration of charged particles by a combined detector on their basis**
Komar V.K., Sulima S.V., Gerasimenko A.S., Danshin E.A., Chernikov V.V., Losseva E.A.
STC "Institute for Single Crystals", NAS of Ukraine, Kharkov, Ukraine
- EQ-5/11 Growth of CdZnTe monocrystals and their application in radiation detectors**
Melnikov A.A., Melnikova T.V., Davydov A.A., Sigov A.S., Vorotilov K.A.
Moscow State Institute of Radioengineering, Electronics and Automation (Technical University), Moscow, Russia
- EQ-5/12 Sodium iodide (NaI-2H₂O) dehydration in vacuum**
Grinev B.V., Voloshko A.J., Smirnov N.N., Sofronov D.S., Shishkin O.V., Babenko E.M.
Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine
- EQ-5/13 Study of the efficiency of vacuum microwave - SHF drying for alkali-haloid crystalline hydrates for monocrystal growing**
Voloshko A.J., Grinev B.V., Goriletski V.I., Smirnov N.N., Sofronov D.S., Shishkin O.V., Babenko E.M.
Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine
- EQ-5/14 Creation of a complex for the analysis of mass composition of gaseous medium in the furnace during the crystal growing process**
Voloshko A.J., Grinyov B.V., Gornletskij V.I., Smirnov N.N., Chernishenko B.J., Shishkin O.V.
Institute for Scintillation Materials, NAS of Ukraine, Kharkov, Ukraine
- EQ-5/15 Thermostimulated luminescence of piezoelectric crystal Li₂B₄O₇:Eu³⁺**
Grin' Leonid A., Tolmachev Alexander V.,
Chesnokov Eugene D.*
Institute for Single Crystals, NAS of Ukraine, Kharkov, Ukraine
**Institute of Physics, NAS of Ukraine, Kiev, Ukraine*

- EQ-5/16** New doped with rare-earth ions and transition metal ions phosphate compounds for multy functional use
 Chukova O., Nagorniy P., Nedilko S.
Kyiv Taras Shevchenko National University, Kyiv, Ukraine
- EQ-5/17** Formation of spinel MeAl_2O_4 under diffusive alloyage of corundum monocrystals
 Burtsev A.V., Groznov M.V., Khrenov A.Ya., Pankratov A.K., Rudnitsky A.G., Strugatsky M.B.
V. Vernadsky Taurida National University, Simferopol, Ukraine
- EQ-5/18** Donor-acceptor complexes in organic scintillation crystals
 Sidletskiy O.Ts., Lisetski L.N., Malikov V.Ya., Stadnik P.E., Budakovskiy S.V., Panikarskaya V.D.
Institute for Single Crystals, NAS of Ukraine, Kharkiv, Ukraine

Section 7. Adaptive Materials & Magnetic alloys

15.00-17.30

Session EC (oral presentations)

Chairmen: Shavrov V.G., Nadutov V.M.

- EC-L1** Shape memory effect due to magnetic-field-controlled martensitic transition (Invited)
 Koledov V.^a, Krasnoperov E.^b, Shavrov V.^a
^a*Institute of Radioengineering and Electronics of RAS, Moscow, Russia,*
^b*Research and Scientific Centre "Kurchatov Institute", Moscow, Russia*
- EC-L2** Spin correlation in Ni-Mn-Ga: data of small-angle polarized neutron scattering (Invited)
 Runov V.V.
St. Petersburg Nuclear Physics Institute of RAS, St. Petersburg, Russia
- EC-L3** New Invar Fe-Ni-C-based alloys: phenomena and properties (Invited)
 Nadutov V.M.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine

- EC-7/1 Influence of alloying by B and Re in NiAl based alloys**
 Koval Yu.N.¹, Koval A.Yu.⁴, Monastyrsky G.E.², Odnosum V.V.¹,
 Czeppe T.³, Efremova A.V.¹
 1. *G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
 2. *National Technical University of Ukraine, Kyiv, Ukraine*
 3. *Institute of Metallurgy and Materials Science, Academy of Sciences of Poland, Kraków, Poland*
 4. *I. Frantsevich Institute for Problems of Materials Science, Kyiv, Ukraine*
- EC-7/2 Ferroelastic and magnetic domain structure realignment in ferromagnetic shape memory Heusler alloys**
 Buchelnikov V.^a, Grechishkin R.^c, Khovailo V.^d, Koledov V.^b,
 Korpusov O.^c, Shavrov V.^b, Takagi T.^f
^a*Chelyabinsk State University, Chelyabinsk, Russia*
^b*Institute of Radioengineering and Electronics of RAS, Moscow, Russia*
^c*Tver State University, Tver, Russia*
^d*National Institute of Advanced Industrial Science and Technology, Tohoku Center, Sendai, Japan*
^e*S-Peterburg Institute of Nuclear Physics of RAS, Gatchina, Russia*
^f*Institute of Fluid Science, Tohoku University, Sendai, Japan*
- EC-7/3 Shape memory effect control by intense ultrasound in Ni-Mn-Fe-Ga pseudoheusler alloy**
 Buchelnikov V.^a, Grechishkin R.^c, Khovailo V.^d,
 Khudoverdyan T.^b, Koledov V.^b, Kuzavko Y.^b, Krasnoperov E.^b,
 Nazarkin I.^e, Shavrov V.^b, Takagi T.^f
^a*Chelyabinsk State University, Chelyabinsk, Russia*
^b*Institute of Radioengineering and Electronics of RAS, Moscow, Russia*
^c*Tver State University, Tver, Russia*
^d*National Institute of Advanced Industrial Science and Technology, Tohoku Center, Sendai, Japan*
^e*S-Peterburg Institute of Nuclear Physics of RAS, Gatchina, Russia*
^f*Institute of Fluid Science, Tohoku University, Sendai, Japan*

- EC-7/4 The evolution of the structure and mechanical properties near glass transition temperature in (Ti,Hf,Zr)(Ni,Cu)-based shape memory melt-spun ribbons**
 Sezonenko A.¹, Kolomytsev V.¹, Babanly M.¹, Pasko A.¹, Ochin P.², Portier R.³, Vermaut P.³
¹*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
²*CECM CNRS, 15 rue Georges Urbain, France*
³*ENSCP, 11 rue Pierre et Marie Curie, Paris, France*
- EC-7/5 Peculiarities of martensite transformation in zirconia nanocrystalline powders induced by hydrostatic pressing**
 Konstantinova T.E., Danilenko Y.A., Volkova G.K., Tokyi V.V.
A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine
- EC-7/6 Electronic structure and magnetic properties of rare-earth RM_2 and RM_3 compounds**
 Baranovskiy A.E.¹, Grechnev G.E.¹, Svechkarev I.V.¹, Panfilov A.S.¹, Eriksson O.²
¹*B.Verkin Institute for Low Temperature Physics and Engineering NASU, Kharkov, Ukraine*
²*Physics Department, University of Uppsala, Uppsala, Sweden*
- EC-7/7 New soft magnetic amorphous cobalt based alloys with high hysteresis loop linearity**
 Nosenko V.K., Maslov V.V., Kochkubey A.P., Kirilchuk V.V.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- EC-7/8 On structure transitions in the melts of the soft magnetic Fe-Si-B-Cu-Nb-Ni-Mo alloys**
¹Ladyanov V.I., ²Maslov V.V., ¹Beltukov A.L., ¹Shishmarin A.I., ²Nosenko V.K., ²Mashira V.A.
¹*Institute for Physics and Technology, Ural Branch of RAS, Ekaterinburg, Russia*
²*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
- EC-7/9 Electron correlation in ferromagnetic Kondo lattice models**
 Tehranchi Mohammad Mehdi, Ghanaatshoar Majid
Physics Department and Laser Research Institute, Shahid Beheshti University, Tehran, Iran

EC-7/10 Magnetic phase transformations in transition metal alloys

Shatnii T.D. and Repetsky S.P.

*Kyiv Taras Shevchenko National University, Kyiv, Ukraine***EC-7/11 Electrons and phonons in disordered alloys**

Repetsky S.P. and Godlevs'ka O.A.

*Kyiv Taras Shevchenko National University, Kyiv, Ukraine***Section 7. Adaptive Materials & Magnetic Alloys****15.00-19.00****Session ER (poster presentations)****Chairmen: Malinovsky V.K., Kokorin V.V.****ER-7/1 Influence of Casting Technology on the Phase Transformation in NiTiNb Alloys**

Slipchenko V.N., Koval Yu.N.

*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine***ER-7/2 Forming of deformation martensite in Ti-5Al-5Mo-5V-alloy**

Konstantinova T.E., Volkova G.K., Ryumshina T.A.

*A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine***ER-7/3 Influence of nanostructure on magnetic and mechanical properties of Ni-Mn-Fe-Ga ferromagnetic shape memory alloy**Imashev R.^a, Mulyukov H.^b, Khovailo V.^c, Koledov V.^d, Shavrov V.^d, Takagi T.^e^a*Institute of the problems of metal's superplasticity of RAS, Ufa, Russia*^b*Ufa State Aviation Technical University, Ufa, Russia*^c*National Institute of Advanced Industrial Science and Technology, Tohoku Center, Sendai, Japan*^d*Institute of Radioengineering and Electronics of RAS, Moscow, Russia*^e*Institute of Fluid Science, Tohoku University, Sendai, Japan***ER-7/4 Concentration dependencies of properties of superelastic FeNi-CoTi alloys**

Gunko L.P., Takzei G.A.

Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kyiv, Ukraine

- ER-7/5 Formation of submicrocrystalline and nanocrystalline state of iron-nickel alloys due to reverse martensitic transformation**
 Daniilchenko V.E.¹, Sagaradze V.V.²
¹*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
²*Institute of Metal Physics, Ural Branch of RAS, Ekateringurg, Russia*
- ER-7/6 Functional properties of the multicomponent TiNi-based shape memory melt-spun ribbons**
 Sezonenko A.¹, Kolomytsev V.¹, Babanly M.¹, Pasko A.¹, Diyakon L.¹, Ochin P.², Portier R.³, Vermaut P.³
¹*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
²*CECM CNRS, Vitry-sur-Seine, France*
³*ENSCP, Paris, France*
- ER-7/7 Small-angle neutron scattering in Invar Fe-Ni-C alloys in magnetic field**
 Nadutov V.M.^a, Garamus V.M.^b, Willumeit R.^b, Kolotovs'ka V.L.^a, Semenov D.V.^a
^a*G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
^b*GKSS Research Centre, Geesthacht, Germany*
- ER-7/8 The effect of C on hyperfine magnetic interaction and magnetic properties of Invar Fe-Ni-C alloys**
 Nadutov V.M., Svystunov Ye.O., Efimova T.V., Tatarenko V.A., Kolotovs'ka V.L.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- ER-7/9 The effect of carbon on thermal expansion of Invar Fe-Ni alloys**
 Nadutov V.M., Svystunov Ye.O., Potapenko O.V.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- ER-7/10 The effect of carbon on the ultrasonic velocity and elastic properties of Invar Fe-Ni alloys**
 Nadutov V.M., Zaporozhets O.I., Dordienko N., Svystunov Ye.O.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine

- ER-7/11 Internal friction and Young's module in Invar Fe-Ni-C alloys**
Nadutov V.M., Golub T.V., Hymenyuk O.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- ER-7/12 The mechanical properties of Invar Fe-Ni-C alloys at 150-300 K**
Nadutov V.M., Baselyuk G.Ya., Semenov D.V., Kuzmich G.I.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- ER-7/13 Some applied results of ultrasonic investigations of chromium and its microalloyed alloys in the range of Neel temperature**
Zaporozhets O.I.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- ER-7/14 The low critical dimension of bulk spin glasses**
Surzhenko A.B.^{1,2}, Takzei G.A.¹
¹*Institute of Magnetism, NAS of Ukraine and Ministry of Education of Ukraine, Kiev, Ukraine*
²*Institut für Physikalische Hochtechnologie, Jena, Germany*
- ER-7/15 Effect of local laser and ion-beam treatments on core loss in soft magnetic electrical alloys**
Dragoshanskii Y., Sokolov B., Gubernatorov V.
Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia
- ER-7/16 Monitoring properties of soft magnetic materials in the course of their laser-treatment**
Dragoshanskii Yu.N., Sokolov B.K., Pudov V.I., Reutov Yu.Ja.
Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia
- ER-7/17 Role of thermal treatment at formation of magnetic properties in amorphous soft magnetic Fe-based alloys**
Skulkina N.A., Stepanova E.A., Ivanov O.A., Neustroeva O.V., Kobzeva D.M.
Ural State University, Ekaterinburg, Russia

- ER-7/18 Magnetic ordering of $\text{Ce}_2\text{Fe}_{17-x}\text{Mn}_x$ with $x \geq 1$ under pressure**
 Prokhnenko O.¹, Isnard O.², Ritter C.³, Arnold Z.¹, Kamarád J.¹, Kuchin A.⁴
¹*Institute of Physics, Academy of Sciences of Czech Republic, Prague, Czech Republic*
²*Laboratoire de Cristallographie, CNRS, Grenoble, France*
³*Institute Laue Langevin, Grenoble, France*
⁴*Institute of Metal Physics, Ural Branch of RAS, Ekaterinburg, Russia*
- ER-7/19 Crystal structure and properties of functionale iron-based powder alloys sintered with electrocontact heating**
 Andrushchik L.O., Oschkaderov S.P.
G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine
- ER-7/20 The origin of cluster formation in Fe-Cr-B metallic glasses**
 Babich M.G., Brud'ko O.P., Plyushchay I.V. and Zakharenko M.I.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
- ER-7/21 Structural relaxation of CoSiB metallic glasses upon heat treatment**
 Babich M.G., Zakharenko M.I., Maslov V.V.* , Nosenko V.K.* , Semen'ko M.P.
Kyiv Taras Shevchenko National University, Physics Department, Kyiv, Ukraine
 **G. Kurdyumov Institute for Metal Physics, NAS of Ukraine, Kyiv, Ukraine*
- ER-7/22 Influencing of pretreatment on magnetic properties of amorphous wire FeSiB**
 Mokhovikov A.U., Gavriliuk A.A., Semenov A.L.
Irkutsk State University, Irkutsk, Russia
- ER-7/23 Transport properties of single crystalline $\text{Lu}_2\text{Fe}_{17}$ under extreme conditions**
 Skorokhod Y., Arnold Z., Kamarád J., Andreev A.V.
Institute of Physics, Academy of Sciences of Czech Republic, Prague, Czech Republic
- ER-7/24 Relaxation of diffuse X-ray scattering intensity in Ni-11.8 at.% Mo alloys**
 Bokoch S.M., Kulish M.P.
Kyiv Taras Shevchenko National University, Kyiv, Ukraine

ER-7/25 Results determination of trace elements and composition in nanopowders Nd-Fe-B by laser ablation inductively coupled mass spectrometry, structure and magnetic properties after compacted under high pressure

Makovetskii G.I.¹, Yanushkevich K.I.¹, Becker J.S.²,
Izmer A.V.^{1,2}, Pickhardt C.², Yagodkin Yu.D.³, Avramchuk S.S.⁴,
Gerasimov K.B.⁴

¹*Institute of Solid State Physics and Semiconductors, NAS of Belarus, Belarus, Minsk*

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⁴*Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of RAS, Russia, Novosibirsk*

ER-7/26 Investigation of inelastic properties in Ti-alloy by internal friction method

Ryumshina T.A., Konstantinova T.E., Nosolev Y.K.,
Pilipenko N.P.

A. Galkin Institute for Physics and Engineering, NAS of Ukraine, Donetsk, Ukraine

ER-7/27 Internal friction in MgBa alloys

Kulish N.P., Onanko A.P., Strutinsky A.M.

Kyiv Taras Shevchenko National University, Faculty of Physics of Functional Materials, Physics Department, Kyiv, Ukraine

ER-7/28 Film Soft-Magnetic Fe-Zr-N Alloys

Sheftel' E.N.^a, Usmanova G.Sh.^a, Blinova E.N.^b

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Closing of the Conference

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 Gorbenko O.Yu. *AB-2/1*
 Gorbovanov A.I. *DQ-10/22*
 Gordeev S.I. *BQ-9/1*
 Goriletski V.I. *EQ-5/12*
 Gornakov V.S. *BQ-9/9. AP-2/8*
 Gornletskij V.I. *EQ-5/14*
 Gorobets O.Yu. *BP-8/18. BP-8/17.*
 BP-8/16. BP-8/15
 Gorobets S.V. *BQ-9/20. BP-8/18.*
 BP-8/17. BP-8/16
 Gorobets Victor *AP-2/10*
 Gorobets Yu.I. *DA-1/8. CP-4/8.*
 BQ-9/20. BQ-9/11. BP-8/15
 Gorokh A.V. *CQ-6/4. BQ-9/19*
 Gorshunov B. *BB-9/5*
 Goryunov G.E. *BB-L2*
 Goyko I.Yu. *BP-8/18. BP-8/17. BP-*
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 Grebenyuk N.N. *DQ-10/3*
 Grechishkin R. *EC-7/3. EC-7/2*
 Grechnev G.E. *EC-7/6*
 Grigorov I.G. *BB-9/10*
 Grin' Leonid A. *EQ-5/15*
 Grinyov B.V. *EQ-5/14. EQ-5/12.*
 EQ-5/12. EQ-5/5. EQ-5/4. EB-
 5/1. BP-8/10. BP-8/8. BP-8/5.
 BA-L2. AA-L2
 Groznov M.V. *EQ-5/17*
 Gruselle M. *BB-9/7*
 Gubernatorov V. *ER-7/15*
 Gudim I.A. *DB-1/6. DB-1/3*
 Gulyaev Yu.V. *CP-4/7*
 Gunko L.P. *ER-7/4*

Gusakova L.G. *CQ-6/8. CQ-6/4.
CQ-6/3. BQ-9/19*
Gusarov Victor.....*CQ-6/9*

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Harlamova S.A.*DB-1/6*
Hayashi Y.*AP-2/8*
Hemberger J.*AB-2/2*
Hymenyuk O.*ER-7/11*

I

Imashev R.*ER-7/3*
Inoue M.*EP-3/6*
Ishchuk V.M. *CQ-6/6. CQ-6/5. CQ-
6/4. CQ-6/3. CQ-6/2. CQ-6/1.
BQ-9/19*
Isnard O.*ER-7/18*
Ivanov B.A.*CA-L4*
Ivanov O.A.*ER-7/17*
Ivanov S.A.*EP-3/13*
Ivanov V.Yu.*AB-2/4. AB-2/2*
Ivanova N.B.*DP-1/17*
Izmer A.V.*ER-7/25*

J

Jiles D.C.*AB-2/5*

K

Kabanov I.B.*DQ-10/16*
Kabanov Yu.P.*BQ-9/9*
Kadomtseva A.M.*AB-2/4*
Kalashnikova A.M.*EA-3/1*
Kalinin Yu.E.*EA-3/1*
Kalita V.M.*DP-1/16. DA-1/3*
Kalyuzhnyi A.B.*BP-8/19*
Kamarád J.*ER-7/23. ER-7/18*
Kamentsev K.E.*CA-L5*
Kamilov K.I.*AB-2/4*
Kapitanchyk L.M.*BQ-9/14*
Karpenko N.I.*DP-1/11*

Kasatkin C.I.*AB-2/14*
Kasatkina T.P.*BP-8/18. BP-8/17*
Kassan-Ogly F.A.*DA-L2*
Katrunov K.A. *EQ-5/8. EQ-5/7.*

EQ-5/4. EQ-5/3. EQ-5/2. EQ-5/1
Kaul A.R.*AB-2/1*
Kazak N.V.*DP-1/17*
Khizhnyi V.I.*DP-1/4*
Khomenko M.V.*AB-2/15*
Khovailo V. *ER-7/3. EC-7/3. EC-
7/2*

Khrenov A. Ya.*EQ-5/17*
Khudoverdyan T.*EC-7/3*
Khvalkovskii A.V.*AP-2/14. AA-L4*
Kireyeva N.A.*BP-8/13*
Kirilchuk V.V.*EC-7/7*
Kirillova M.M.*AP-2/7. AB-2/14*
Klamra W.*EQ-5/8*
Klevets Ph.N.*DB-1/8. DP-1/14*
Klimenko I.A.*EQ-5/3. EQ-5/2*
Klimov A.A.*CP-4/7*
Kobljanskyj Yu.V.*CA-L3*
Kobzeva D.M.*ER-7/17*
Kochkubey A.P.*EC-7/7*
Kochneva M.*EP-3/6*
Kokorev A.I.*DQ-10/14*
Kokorin V.V.*AA-L3*
Koledov V.V. *ER-7/3. EC-7/3. EC-
7/2. EC-L1. DA-1/1*
Kolomiets S.N.*EP-3/11. EA-L3*
Kolomytsev V.*ER-7/6. EC-7/4*
Kolotovs'ka V.L.*ER-7/8. ER-7/7*
Komar V.K. *EQ-5/10. EQ-5/3. DQ-
10/3*
Konstantinova T.E. *ER-7/26. ER-
7/2. EC-7/5. CQ-6/8. CQ-6/4.
CQ-6/2. BQ-9/19. AA-L5*
Kopan V.S.*BQ-9/14*
Koronovskiy V.E.*EP-3/4*
Korpusov O.*EC-7/2*

Korshikova T.I.	EQ-5/9	Kuzavko Y.	EC-7/3
Korsunin L.G.	DA-L2	Kuzmich G.I.	ER-7/12
Kostiuchenko V.V.	BB-9/6		
Kotliar Gabriel.	DB-1/1	L	
Kotov L.N. DA-1/4. DA-1/1. CP-4/1		Ladyanov V.I.	EC-7/8
Kotov V.A.	EP-3/1	Lagunov I.M.	AP-2/15
Koval A.F. BP-8/7. BP-8/6. BP-8/5		Lavrientiyev F.F.	DQ-10/11
Koval A. Yu.	EC-7/1	Le Gall H.	BB-9/1
Koval Yu.N.	ER-7/1. EC-7/1	Lee B.-S.	AP-2/8
Kovalenko V.F. EP-3/5. EP-3/4.		Lee C.-G.	AP-2/8
EP-3/3. EP-3/2		Legenkii Yu.A.	BQ-9/20. AP-2/6
Kovalenko V.I.	BB-9/7	Len T.A.	BQ-9/14
Kovalev A.S.	BQ-9/7	Leonov A.A.	DA-1/6
Kozhemyako O.V. DP-1/15. DP-		Lepikh Ya.I.	AB-2/15
1/14		Levchenko D.A.	DQ-10/12
Kozlov E.A.	BB-9/3	Levy S.V.	EP-3/14
Kozyrev A.B.	CP-4/6	Li Cz.	DB-1/7
Krasheninnikov A.P.	BB-L2	Li J.F.	DA-1/9
Krasnoperov E.	EC-7/3. EC-L1	Lichtenstein Alexander I.	DB-1/1
Kravets A.F.	EP-3/8	Lisetski L.N.	EQ-5/18. BP-8/13
Kravtsov M.V.	DQ-10/6	Lobina S.	AB-2/2
Krinitsina T.P.	AB-2/11	Loboda S.N.	AP-2/6
Krivoruchko V.N.	AB-2/5. AA-L5	Lobov I.D.	AP-2/7. AB-2/14
Krivoshein V.I.	EQ-5/7. EQ-5/5	Logginov A.S.	EP-3/10
Kruglyak V.V.	CP-4/9	Loidl A.	AB-2/2
Krutyansky L.M.	DP-1/1	Loktev Vadim.	DB-L1
Krynetskii I.B.	DP-1/21	Lomanova Natalja.	CQ-6/9
Kryzhanovskaya Alexandra S.		Loshkareva N.N.	AB-2/1
.....	EB-5/2	Losovaya O.G.	BP-8/17
Kucherenko S.S.	DA-1/2. AB-2/9	Losseva E.A.	EQ-5/10
Kuchin A.	ER-7/18	Lozenko A.F.	DP-1/16. DA-1/3
Kuchko A.N.	CP-4/9	Lozovski V.Z.	CP-4/11. CP-4/10
Kudlenko Anna D.	EA-L3	Luganskii D.V.	EP-3/8
Kulish N.P. ER-7/27. ER-7/24. DQ-		Lutsev L.V.	CP-4/2
10/5. DQ-10/4		Lyashenko O.V.	DQ-10/6
Kurbatova Yu.N.	DP-1/18	Lysov V.I.	BQ-9/16
Kuvarzin I.V. BP-8/12. BP-8/11.		Lyubchanskii I.L.	EP-3/12. EA-L2
BP-8/9. BP-8/8		Lyubchanskii M.I.	EP-3/12. EA-L2
Kuz'menko A.P.	DB-1/7	Lyubinskiy V.	EB-5/1
Kuz'min E.V.	DB-1/1	Lyubutin I.S.	DA-1/10. DA-L1

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Maevskii V.M.AP-2/7. AB-2/14
 Maitz M.F.....DQ-10/8
 Makarov Denis.....EP-3/3
 Makhnev A.A.AP-2/7
 Makovetskii G.I.ER-7/25. BB-9/9.
 AP-2/12. AP-2/11
 Makovkin A.V.....CA-4/3
 Maksimova E.M.....CQ-6/14
 Malikov V.Ya.....EQ-5/18
 Malinovsky V.K.....BB-9/4
 Maly P.....EQ-5/7
 Mamalui J.A.....DA-1/6. DA-1/5
 Markov A.N.DB-1/7
 Martsynko E.E.AB-2/15
 Maryshko M.AB-2/5
 Mashira V.A.EC-7/8
 Mashkautsan V.V.....AB-L1
 Maslov V.V.ER-7/21. EC-7/8. EC-
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 Masson S.BB-9/1
 Mateychenko P.V.CQ-6/1. BQ-
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 Matveev V.M.....DP-1/21
 Matveev V.V.....DP-1/21
 Matzui L.Yu.BQ-9/16. BQ-9/14
 Matzui V.I.BQ-9/17
 Maugin G.A.....BQ-9/7
 Mazanko V.F.....DQ-10/5
 Mazur E.A.DB-1/7
 Mazur S.P.BP-8/15
 Medvedev A.S.EP-3/13
 Medvedev A.V.EP-3/13
 Melikhov Y.....AB-2/5
 Melkov G.A.CA-L3
 Melnichuk I.A.DP-1/8. BQ-9/20.
 AP-2/6
 Melnikov A.A.....EQ-5/10. EB-5/4
 Melnikova T.V....EQ-5/10. EB-5/4
 Melnychuk P.I.DP-1/8

Meshcheryakov V.F.CA-4/1
 Migal' V.P.EQ-5/3. EQ-5/2. DQ-
 10/3
 Mihailapov I.EP-3/13
 Mikhaylov V.I.....AP-2/5. AP-2/1
 Mikherskii R.M.....DP-1/12
 Milyaev M.A.....AB-2/11
 Mischenko A.S.....BB-9/6
 Mishin V.V.BQ-9/10
 Mishina E.D.....BQ-9/4
 Mohseni S.M.CA-4/2
 Mokhovikov A.U.ER-7/22
 Molchan I.S.EP-3/1
 Molodkin V.B.....BA-L3
 Monastyrsky G.E.EC-7/1
 Morosov AlexandrAB-2/12
 Morozov MaximCQ-6/9
 Mostovshchikova E.V.AB-2/1
 Mukhin A.A.BB-9/5. AB-2/4. AB-
 2/2
 Mukovskii Ya.M.AB-2/8. AB-L1
 Mulyukov H.ER-7/3
 Muslimov I.R.DP-1/5
 Mykytyuk V.I.....CA-4/4

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Nadutov V.M.ER-7/12. ER-7/11.
 ER-7/10. ER-7/9. ER-7/8. ER-
 7/7. EC-L3
 Nagornaya L.L.EQ-5/5. EQ-5/4
 Nagorniy P.....EQ-5/16
 Nakonechna O.....BQ-9/18
 Nalivaiko D.P.DQ-10/3
 Naumov S.V.....BB-9/3
 Naydenov S.....EQ-5/1
 Naydenov S.V.....DQ-10/1
 Nazarkin I.EC-7/3
 Nediilko S.EQ-5/16. EB-5/3
 Nedviga A.S.EP-3/15. DP-1/12
 Neelov I.....BA-L2

- Nekrasov V.V. *BP-8/12. BP-8/11. BP-8/10. BP-8/9. BP-8/8. BP-8/6. BP-8/5*
- Nekrasova L.N. *BP-8/7*
- Nepevnaya N.V. *DP-1/20*
- Neustroeva O.V. *ER-7/17*
- Nikiforenko V.N. *DQ-10/11*
- Nikitenko V.I. *BQ-9/9*
- Nikitov S.A. *CP-4/7*
- Nikolaev A.V. *EP-3/10*
- Nishimura K. *EP-3/6*
- Norden D.N. *AP-2/15*
- Nosach D.V. *DQ-10/8*
- Nosenko V.K. *ER-7/21. EC-7/8. EC-7/7*
- Nosolev Y.K. *ER-7/26*
- Novitsky O.A. *AP-2/4*
- O**
- Ochin P. *ER-7/6. EC-7/4*
- Odnosum V.V. *EC-7/1*
- Ol'khovik L.P. *BQ-9/21*
- Oleinik S. *EQ-5/3*
- Oleinik S.V. *EQ-5/2*
- Olszewski M. *DQ-10/17*
- Onanko A.P. *ER-7/27. DQ-10/4*
- Opalenko A.A. *DQ-10/14*
- Oschkaderov S.P. *ER-7/19*
- Ovanesyan N.S. *DA-1/10. BB-9/7*
- Ovcharenko A.I. *DQ-10/19. DQ-10/18*
- Ovchinnikov S.G. *DB-1/6. DB-1/3. DP-1/17*
- Ovsienko I. *BQ-9/15*
- P**
- Panfilov A.S. *EC-7/6*
- Panikarskaya V.D. *EQ-5/18. CQ-6/5. BP-8/13*
- Pankratov A.K. *EQ-5/17*
- Panova M.A. *AP-2/9*
- Pashchenko A.V. *AP-2/2. AP-2/1. AB-2/7*
- Pashchenko V.P. *AP-2/2. AB-2/7*
- Pasko A. *ER-7/6. EC-7/4*
- Pastushonok S.N. *AP-2/4*
- Patrin G.S. *AP-2/9*
- Patrin K. *AB-2/3*
- Pavlov V.I. *AP-2/4*
- Pavlov V.V. *EA-3/1*
- Perlo P. *EA-L1*
- Pernod Ph. *DP-1/1. BB-9/1. BA-L5*
- Petrakovskii G. *AB-2/3*
- Phirouznia A. *AB-2/6*
- Pickhardt C. *ER-7/25*
- Pilipenko N.P. *ER-7/26. BQ-9/19*
- Piotrovsky K. *AP-2/5. AP-2/1*
- Pirogov E.N. *EQ-5/7. EQ-5/5*
- Piryatinski Yu.P. *DQ-10/7*
- Pisarev R.V. *EA-3/1*
- Piven L.A. *BP-8/10. BP-8/5*
- Platkov V.Y. *BP-8/19*
- Plokhov D.I. *DQ-10/2*
- Plyushchay I.V. *ER-7/20*
- Podyalovski D.I. *AB-2/13*
- Pogibko V.M. *CQ-6/8. CQ-6/4. BQ-9/19*
- Pogorelov A.E. *DQ-10/9. DQ-10/5. BB-9/2*
- Pogorelova N. *BP-8/1*
- Pogorily A.N. *CA-4/4. AP-2/3*
- Pogoryelov Ye.A. *DQ-10/9. AB-2/13*
- Pogrebnyak S.V. *DQ-10/18*
- Pokatilov V.S. *DQ-10/16*
- Poleshikov S.M. *DA-1/1*
- Polulyakh S.N. *DQ-10/22. DQ-10/21. DQ-10/19. BQ-9/12*
- Polyakov P.I. *DA-1/2. AB-2/9*
- Ponomarenko V.I. *CP-4/12*

- Poperenko L.V..... *DQ-10/8*
 Popkov A.F. *AA-L4*
 Popov V.V. *CP-4/12*
 Popov Yu.F. *AB-2/4*
 Portier R. *ER-7/6. EC-7/4*
 Potapenko O.V..... *ER-7/9*
 Poteryaev Alexander I. *DB-1/1*
 Potseluyko A.M. ... *DB-1/6. DB-1/3*
 Prajsnar Stanisław *BQ-9/3*
 Preobrazhensky V.L. *DP-1/1. BB-9/1. BA-L5*
 Prilipko Yu.S. *CQ-6/4. BQ-9/19*
 Primak K.I. *AB-2/5*
 Primak T.E. *AB-2/5*
 Prokhnenko O. *ER-7/18*
 Prokhorov A.S. *AB-2/2*
 Prokopenko V.K. *AB-2/7*
 Prokopov A.R. *EP-3/15. DP-1/13. DP-1/12. DP-1/11. DP-1/10*
 Prudnikov A.M. *EP-3/9. BQ-9/8*
 Pudonin F.A. *AP-2/7. AB-2/14*
 Pudov V.I. *ER-7/16*
 Puzikov V.M. *DQ-10/3*
 Pyalling A.A. *BB-9/7*
 Pyatakov A.P. *EP-3/10. EP-3/1. DA-1/9*
 Pylnov Yu.V. *DP-1/1*
- R**
- Rakhmanov A.L. *CP-4/3*
 Rasing Th. *EA-L2*
 Ratner A.M. *AB-2/10*
 Ratner M. *EB-5/1. BA-L2. AA-L2*
 Razumov S.V. *CP-4/6*
 Repetsky S.P. *EC-7/11. EC-7/10*
 Repetsky Ye.S. *DQ-10/7*
 Reshetnyak S.A. *CP-4/8*
 Reutov Yu.Ja. *ER-7/16*
 Reznik D. *CP-4/11*
 Rinkevich A.B. *AB-2/11*
- Ritter C. *ER-7/18*
 Romashev L.N. *AB-2/11*
 Rudenko V.V. *DP-1/17*
 Rudenko Vas.V. *DQ-10/19*
 Rudnitsky A.G. *EQ-5/17*
 Ruette B. *DA-1/9*
 Runov V.V. *EC-L2*
 Ryabchenko S.M. *DA-1/3*
 Ryakhova O.G. *DP-1/3*
 Rybalka I.A. *EB-L1*
 Rybalko I. *EQ-5/3*
 Ryumshina T.A. ... *ER-7/26. ER-7/2*
 Ryzhikov V.D. *EQ-5/8. EQ-5/7. EQ-5/5. EQ-5/4. EQ-5/3. EQ-5/2. EQ-5/1. EB-L1. DQ-10/1. BQ-9/1*
- S**
- Sablina K. *AB-2/3*
 Sagaradze V.V. *ER-7/5*
 Saifullaeva Dilaram A. *AP-2/13*
 Saley V.S. *CQ-6/4*
 Sanina N.A. *BB-9/7*
 Sapiga A.V. *DQ-10/23. DQ-10/17. DQ-10/13. DQ-10/12*
 Saprykin A.A. *CQ-6/8. BQ-9/19*
 Sarkarati S. *CA-4/2*
 Sarkissian V.A. *DA-1/11. DA-1/10. DA-L1*
 Savin Yu.N. *EB-5/2. BB-9/8*
 Savosta M.M. *AA-L5*
 Seifulina I.I. *AB-2/15*
 Selegenev E.M. *BP-8/12. BP-8/11. BP-8/10. BP-8/9. BP-8/8. BP-8/7. BP-8/6. BP-8/5*
 Seleznev A.V. *DQ-10/24*
 Semen'ko M.P. *ER-7/21*
 Semenov A.L. *ER-7/22*
 Semenov D.V. *ER-7/12. ER-7/7*
 Seminozhenko V.P. *BP-8/10*

Sergeev N.A.	DQ-10/23. DQ-10/17. DQ-10/13	Silin V.	EQ-5/8
Sezonenko A.	ER-7/6. EC-7/4	Sipatov A.Yu.	BQ-9/5
Shabalin M.A.	DB-1/5	Siryuk J.A.	DA-1/5
Shabunina G.G.	DQ-10/22	Sitnikov A.V.	EA-3/1
Shalaev R.V.	EP-3/9. BQ-9/8	Sizova Z.I.	BQ-9/21
Shalnov K.V.	BB-9/3	Skibinsky K.M.	DP-1/4
Shamsutdinov D.M.	DB-1/4	Skorokhod Y.	ER-7/23
Shamsutdinov M.A.	DB-1/4	Skulkina N.A.	ER-7/17
Shapaeva T.B.	DP-1/18	Slageren J.	BB-9/5
Shaposhnikov A.N.	DP-1/11	Slavin A.N.	CA-L3. CA-L2
Shapovalov E.A.	EA-L2	Slipchenko V.N.	ER-7/1
Shatnii T.D.	EC-7/10. DQ-10/7	Slyakhturov V.	BP-8/1
Shavrov V.G.	ER-7/3. EC-7/3. EC-7/2. EC-L1. DA-1/1. CP-4/1	Smirnitskaya G.V.	BB-L2
Sheftel' E.N.	ER-7/28	Smirnov N.N.	EQ-5/14. EQ-5/12. EQ-5/12
Sheglov V.I.	CP-4/1	Smyk N.	BP-8/2
Shekhovtsov A.N.	EQ-5/9	Smyntyna V.A.	AB-2/15
Shemyakov A.A.	AB-2/7	Sofronov D.S.	EQ-5/12. EQ-5/12
Shermatov Erkin N.	EP-3/7. DQ-10/10. CP-4/13	Sokolov B.K.	ER-7/16. ER-7/15
Shevtsov N.I.	BP-8/4. BP-8/3	Sokolov N.L.	BB-9/11
Shibaev V.P.	EP-3/13	Sokolov V.B.	BB-9/7
Shilov G.V.	BB-9/7	Sopov V.S.	EB-5/4
Shishkin O.V.	EQ-5/14. EQ-5/12. EQ-5/12	Sorockin M.V.	DP-1/7. DP-1/6. DA-1/8
Shishmakov A.L.	EP-3/12	Sorokin Yu.V.	DQ-10/15
Shishmarin A.I.	EC-7/8	Spasov V.	EQ-5/4
Shitov A.A.	DP-1/9	Spektor I.E.	BA-L4
Shkuratov V.Y.	CA-L5	Spiridonov N.A.	CQ-6/6. CQ-6/4. CQ-6/3. BQ-9/19
Shostak R.I.	CQ-6/10	Spiridonov V.N.	CQ-6/3
Shpak A.P.	BA-L3	Spirin D.V.	DB-1/8
Shtaba V.A.	AP-2/2. AP-2/1	Stadnik P.E.	EQ-5/18
Shtofich Y.S.	AB-2/4	Starzhinskiy N.G.	EQ-5/8. EQ-5/7. EQ-5/4. EQ-5/3. EQ-5/2. EQ-5/1
Shumilov A.G.	EP-3/15	Stelmakh O.I.	BQ-9/17
Shurinova E.V.	BQ-9/21	Stepanova E.A.	ER-7/17
Sidletskiy O.Ts.	EQ-5/18	Stepin A.S.	DA-1/10
Sigov A.S.	EQ-5/10. EB-5/4. CQ-6/7. BQ-9/10. BQ-9/4	Stetsenko P.N.	BB-L2
Silantiev V.I.	BQ-9/11	Stognei O.V.	EA-3/1
		Strelnikov N.I.	EQ-5/6

- Strugatsky M.B. *EQ-5/17. DQ-10/24. DP-1/20. DP-1/19. DP-1/4*
- Strutinsky A.M. *ER-7/27*
- Styszynski Jacek *BQ-9/2*
- Sukhorukov Yu.P. *AB-2/1*
- Sukhov P.K. *DB-1/7*
- Sulima S.V. *EQ-5/10. EQ-5/3. EQ-5/2*
- Surzhenko A.B. *ER-7/14*
- Suzdal V.S. *EQ-5/6*
- Svalov A.V. *AP-2/9*
- Svechkarev I.V. *EC-7/6*
- Svystunov Ye.O. *ER-7/10. ER-7/9. ER-7/8*
- Syvorotka I.I. *DA-1/7*
- Szewczyk A. *AP-2/5. AP-2/1*
- Szymczak H. *AP-2/5. AP-2/2. AP-2/1. AB-2/7*
- T**
- Takagi T. . *ER-7/3. EC-7/3. EC-7/2*
- Takzei G.A. *ER-7/14. ER-7/4*
- Tarakanov V.V. *DP-1/4*
- Tarasov V.A. *EQ-5/8. BQ-9/6*
- Tarenkov V. Yu. *AA-L5*
- Tatarenko V.A. *ER-7/8*
- Tavrovsky I.I. *EQ-5/6*
- Tehranchi M.M. *EC-7/9. CA-4/2. AB-2/6*
- Temerov V.L. *DB-1/6*
- Teplitskaya T.S. *CQ-6/5*
- Terenetskaya I.P. *BP-8/13*
- Tiercelin N. *BB-9/1*
- Tikhomirov O.A. *BQ-9/9*
- Timofeeva M.A. *CP-4/4*
- Tokyi V.V. *EC-7/5*
- Tolmachev A.V. *EQ-5/15. EQ-5/9. EB-5/2. BQ-9/1*
- Topilin S.M. *BB-9/7*
- Tovstolytkin A.I. *AP-2/3*
- Travkin V.D. *AB-2/2*
- Trojan I.A. *DA-L1*
- Trotsenko P.A. *DP-1/16. DA-1/3*
- Tulaikova A.A. *DA-1/1*
- Tumarkin A.V. *CP-4/6*
- Tupitsin Yu.V. *DQ-10/21. DQ-10/19. BQ-9/13*
- Turchenko V.A. *AP-2/2. AB-2/7*
- Turishev M.V. *BQ-9/12*
- Tychko A.V. *EP-3/5. EP-3/3. EP-3/2*
- Tyshkevich V.M. *DQ-10/5*
- U**
- Ubizskii S.B. *DA-1/7*
- Udaloy V.A. *BB-9/11*
- Udyanskiy V.P. *BP-8/10. BP-8/5*
- Ukrainetz A.I. *BP-8/17*
- Usmanova G.Sh. *ER-7/28*
- Ustinov A.B. *CP-4/5. CP-4/4*
- Ustinov V.V. *AB-2/11. AB-2/8. AB-L1*
- V**
- Vakhitov R.M. *DP-1/5. DP-1/3*
- Valakh M. Ya. *BB-L3*
- Varyukhin V.N. *EP-3/9. BQ-9/8. AP-2/2. AA-L5*
- Vas'ko E.I. *DP-1/8*
- Vashuk M. *EP-3/6*
- Vasil'ev A.D. *DB-1/3. DP-1/17*
- Vasil'ev V.A. *CQ-6/7. BQ-9/10. BQ-9/4*
- Vaskov Dm.G. *BB-9/9*
- Vas'kovskii V.O. *AP-2/9*
- Vasyuchka V.I. *CA-L3*
- Veleshchuk V.P. *DQ-10/6*
- Velikanov D.A. *DP-1/17. AP-2/9*
- Velikhov Yu.N. *CQ-6/5*

- Vermaut P. *ER-7/6. EC-7/4*
 Vertegel I.G. *DQ-10/19. DQ-10/18*
 Veselago V.G. *BA-L1*
 Vidaj Yu.T. *BQ-9/6*
 Viehland D. *DA-1/9*
 Vinnichenko M.V. *DQ-10/8*
 Vinogradov A.N. *AB-2/1*
 Vinogradov Al.N. *EP-3/14*
 Vishnevski V.G. *EP-3/15. EP-3/14. DP-1/12*
 Vitushkina S.V. *BB-9/8*
 Vlasov V.S. *DA-1/4*
 Vlasova T. *BQ-9/13*
 Volkov Alexander *BA-L4*
 Volkov N.V. *AP-2/9. AB-2/3*
 Volkova G.K. *ER-7/2. EC-7/5. CQ-6/8. CQ-6/4. CQ-6/2. BQ-9/19*
 Volobuev V.V. *BQ-9/5*
 Voloshko A.J. *EQ-5/14. EQ-5/12. EQ-5/12*
 Vongtragool S. *BB-9/5*
 Vorob'ev G.P. *AB-2/4*
 Voronin V.I. *BB-9/3*
 Voronkin E.F. *BQ-9/1*
 Vorotilov K.A. *EQ-5/10. EB-5/4. CQ-6/7. BQ-9/10. BQ-9/4*
 Vovchenko L.L. *BQ-9/17. BQ-9/16. BQ-9/15*
 Vovk E.A. *CQ-6/2. CQ-6/1*
 Vovk E.G. *CQ-6/4. BQ-9/19*
 Vyagin O. *EQ-5/4*
 Vysotski S.V. *CP-4/7*
- W**
- Willumeit R. *ER-7/7*
- Y**
- Yagodkin Yu.D. *ER-7/25*
 Yagupov S.V. *DQ-10/24. DP-1/20. DP-1/19. DP-1/10. CQ-6/12*
 Yagupov V.S. *DQ-10/24. DP-1/20. DP-1/10*
 Yakovlev S.V. *CP-4/2*
 Yanchevski O.Z. *AP-2/3*
 Yanovsky V. *EQ-5/1*
 Yanushkevich K.I. *ER-7/25. BB-9/9*
 Yatkevich T.M. *DP-1/16. DA-1/3*
 Yatsenko A.A. *CQ-6/13*
 Yatsenko A.V. *DQ-10/12. CQ-6/13. CQ-6/12. CQ-6/11. CQ-6/10*
 Yavetskiy R.P. *EQ-5/9*
 Yevdokimov S.V. *DQ-10/12. CQ-6/12*
 Yukhymchuk V.O. *BB-L3*
 Yumaguzin A.R. *DP-1/5*
- Z**
- Zabluda V.N. *DB-1/6. DB-1/3*
 Zacharov D.N. *CQ-6/7*
 Zainulin Yu.G. *BB-9/10*
 Zainullina R.I. *AB-2/8. AB-L1*
 Zakharenko M.I. *ER-7/21. ER-7/20. BQ-9/18. BQ-9/15*
 Zaporozhets O.I. *ER-7/13. ER-7/10. BP-8/2*
 Zaspel C.E. *CA-L4*
 Zelenskaya O. *EQ-5/8*
 Zenya I. *EQ-5/4. EQ-5/3*
 Zhigalina O.M. *CQ-6/7*
 Zhivotovski L.V. *CP-4/7*
 Zhuravlyov A.F. *DQ-10/9. DQ-10/5. BB-9/2*
 Zubov E.E. *AP-2/5. AP-2/1*
 Zvezdin A.K. *EP-3/10. EP-3/1. EA-L1. DQ-10/2. DA-1/9. BB-9/6. AA-L4*
 Zvezdin K.A. *AP-2/14. AA-L4*
 Zvyagin S. *DA-1/9*

Notes