

International Conference
“Functional Materials”

ICFM-2021

PROGRAM

October 4 – 8, 2021
Russia, Crimea, Alushta

Information for participants

LOCATION

The conference will be held in Alushta. Accommodation will be available in "Golden Family Resort".

CONFERENCE SESSIONS will be held in the conference hall of the "Golden Family 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

| | |
|------------------|---------------------------------|
| Plenary, Invited | 35 minutes (include discussion) |
| Oral | 15 minutes (include discussion) |
| Poster | 0.72x1.20 m |

LANGUAGE

English

CONFERENCE PROCEEDINGS

Participants are solicited to submit full papers of their accepted contribution to publish in the journal "Physics of Metals and Metallography" (<https://www.springer.com/journal/11508>). Selected reports will be published in the journal (special issue devoted to the ICFM-2021 conference). The Program Committee will execute the preliminary selection of papers.

TRANSPORT

The main net of public transport is available in Simferopol. The railway station, the airport is also concentrated there. You can use a bus from airport and trolleybus from Simferopol railway station to Alushta.

CULTURE PROGRAM

| | |
|-------------------------------|------------------------------|
| Monday, October 4, at 20.00 | Welcome party |
| Thursday, October 7, at 20.00 | Conference Dinner |
| Friday, October 8, at 14.00 | Crimean Wine Tasting (Yalta) |

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

TIME-TABLE OF THE DINNING-HALL:

| | |
|-------------|-------------|
| 8.00-9.00 | – breakfast |
| 13.00-14.00 | – dinner |
| 18.00-20.00 | – supper |

Table of Contents

| | |
|---|-----------|
| Monday, October 4 | 6 |
| 9.00-18.00 Registration. Check-in at the Golden Family Resort | 6 |
| 19.30-20.00 Conference Opening | 6 |
| 20.00-22.00 Welcome Party | 6 |
| Tuesday, October 5, A Day | 7 |
| 9.00-11.00 Plenary Session A | 7 |
| 11.15-13.00 Oral Session AA. Section 1. Fundamental Physics of Functional Materials | 7 |
| 17.00-19.00 Oral Session AB. Section 6. Multiferroics and Magnetoelectric Materials..... | 8 |
| 14.00-19.00 Poster Session AP. Section 4. Ultrafast Magnetism and Spin Dynamics | 9 |
| 14.00-19.00 Poster Session AP. Section 3. Plasmonics and Nanophotonics..... | 10 |
| 14.00-19.00 Poster Session AP. Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics | 10 |
| Wednesday, October 6, B Day | 11 |
| 9.00-11.00 Plenary Session B | 12 |
| 11.15-13.00 Oral Session BA. Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics | 12 |
| 14.40-15.40 Oral Session BA. Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics | 12 |
| 15.40-16.45 Oral Session BB. Section 5. Nanostructured Materials and Composites..... | 13 |
| 17.00-19.00 Oral Session BB. Section 5. Nanostructured Materials and Composites..... | 13 |
| 14.00-19.00 Poster Session BP. Section 1. Fundamental Physics of Functional Materials..... | 14 |
| Thursday, October 7, C Day | 17 |
| 9.00-11.00 Plenary Session C | 17 |
| 11.15-13.00 Oral Session CA1. Section 3. Plasmonics and Nanophotonics | 17 |
| 14.40-15.25 Oral Session CA1. Section 3. Plasmonics and Nanophotonics | 17 |
| 15.25-16.40 Oral Session CB1. Section 4. Ultrafast Magnetism and Spin Dynamics..... | 18 |
| 17.00-19.00 Oral Session CB1. Section 4. Ultrafast Magnetism and Spin Dynamics..... | 18 |
| 11.15-13.00 Oral Session CA2. Section 7. Topological Materials and Materials for Quantum Technologies | 19 |
| 14.40-16.40 Oral Session CB2. Section 8. Materials for Medical and Ecological Applications. Biosensors | 20 |
| 14.00-19.00 Poster Session CP. Section 5. Nanostructured Materials and Composites | 20 |
| Friday, October 8, D Day | 24 |
| 9.40-11.00 Plenary Session D..... | 24 |
| 11.15-13.00 Oral Session DA. Section 3. Plasmonics and Nanophotonics | 24 |
| 9.00-13.00 Poster Session DP. Section 6. Multiferroics and Magnetoelectric Materials..... | 24 |
| 9.00-13.00 Poster Session DP. Topological Materials and Materials for Quantum Technologies ... | 25 |
| 9.00-13.00 Poster Session DP. Section 8. Materials for Medical and Ecological Applications. Biosensors | 26 |
| 12.45-13.00 Closing | 27 |
| 14.00-19.00 Culture program | 27 |

Schedule of Conference

| Date | Time | Events | |
|---|----------------------------|--|--|
| Monday, October 4 | 9.00-18.00 | Registration. Check-in at the Golden Family Resort | |
| | 19.30-20.00 | Conference opening | |
| | 20.00-22.00 | Welcome Party | |
| Tuesday, October 5 (A Day) | 9.00-11.00 | Session A | Plenary Session A |
| | 11.15-13.00 | Oral Session AA | Section 1. Fundamental Physics of Functional Materials |
| | 14.40-16.40 | | |
| | 17.00-19.00 | Oral Session AB | Section 6. Multiferroics and Magnetoelectric Materials |
| 14.00-19.00 | Poster Session AP | Section 4. Ultrafast Magnetism and Spin Dynamics Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics Section 3. Plasmonics and Nanophotonics | |
| Wednesday, October 6 (B Day) | 9.00-11.00 | Session B | Plenary Session B |
| | 11.15-13.00 | Oral Session BA | Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics |
| | 15.40-16.45 17.00-19.00 | Oral Session BB | Section 5. Nanostructured Materials and Composites |
| | 14.00-19.00 | Poster Session BP | Section 1. Fundamental Physics of Functional Materials |
| Thursday, October 7 (C Day) | 9.00-11.00 | Session C | Plenary Session C |
| | 11.15-13.00 | Oral Session CA1 | Section 3. Plasmonics and Nanophotonics |
| | 14.40-15.25 | | |
| | 15.25-16.40 17.00-19.00 | Oral Session CB1 | Section 4. Ultrafast Magnetism and Spin Dynamics |
| | 11.15-13.00 | Oral Session CA2 | Section 7. Topological Materials and Materials for Quantum Technologies |
| | 14.40-16.40 | Oral Session CB2 | Section 8. Materials for Medical and Ecological Applications. Biosensors |
| 14.00-19.00 | Session CP | Section 5. Nanostructured Materials and Composites | |
| Friday, October 8, (D Day) | 9.00-10.20 | Session D | Plenary Session D |
| | 11.15-13.00 | Oral Session DA | Section 3. Plasmonics and Nanophotonics |
| | 10.20-13.00 | Poster Session DP | Section 6. Multiferroics and Magnetoelectric Materials Section 7. Topological Materials and Materials for Quantum Technologies Section 8. Materials for Medical and Ecological Applications. Biosensors |
| | 12.45-13.00 | Closing | |
| | 14.00-19.00 | Culture Program: crimean wine tasting | |
| Daily: 11.00 - 11.15 Coffe break, 16.45 - 17.00 Tea break, 13.00-14.00 Lunch | | | |

Monday, October 4

9.00 - 18.00

Registration. Check-in at the Golden Family Resort

19.30 -20.00

Conference Opening

Chairs: Berzhansky V.N., Nikitov S.A., Belotelov V.I.

20.00 – 22.00

Welcome Party

Tuesday, October 5, A Day

Hall A

9.00-11.00

Plenary Session A

Chair: Zvezdin A.K.

- A-L/1 **Chiral spintronics of helimagnets** (*Invited*)
Ustinov Vladimir
- A-L/2 **Advances in topological and switchable plasmonics** (*Invited*)
Harald Giessen
- A-L/3 **Transverse magnetic routing of light emission and plasmon-to-exciton spin conversion in semiconductor-metal hybrid nanostructures** (*Invited*)
Akimov I.A.

11.15 – 13.00

Oral Session AA

Section 1. Fundamental Physics of Functional Materials

Chairs: Fraerman A.A., Lyubutin I.S.

- AA-1L/1 **Orbital effects in solids: recent progress** (*Invited*)
Streltsov S.V.
- AA-1O/1 **NMR spectroscopy of helical magnetic systems**
Gippius A.A., Tkachev A.V., Zhurenko S.V.
- AA-1O/2 **Dark type discrete magnetic breathers and their stability in monoaxial chiral helimagnet**
Ekomasov E.G., Ovchinnikov A.S., Bostrem I.G., Sinitsyn V.E., Fakhretdinov M.I., Kishine J.
- AA-1O/3 **Magnetic phase diagram of Heusler alloys based on studies in pulsed magnetic fields up to 500 kOe and optical in situ studies up to 120 kOe**
Kamantsev A.P., Koshkidko Yu.S., Dilmiyeva E.T., Koledov V.V., Shavrov V.G.
- AA-1O/4 **Electronic properties of the half-metallic ferromagnet Co₂MnZ (Z = Al, Si, Ga, Ge) Heusler compounds**
Semiannikova A.A., Perevozchikova Yu.A., Marchenkova E.B., Marchenkov V.V.
- AA-1O/5 **Looking inside a transition-metal cluster: Ba₄NbTM₃O₁₂ (TM=Mn, Rh, Ir).**
Komleva E.V., Khomskii D., Streltsov S.V.

14.40 – 16.40

- AA-10/6 **Iron Borate: Scientific Biography**
Strugatsky M.B.
- AA-10/7 **Magnetic properties and combined hyperfine interactions in FeBO₃ single crystals near the Neel temperature**
Lyubutin I.S., Snegirev N.I., Chuev M.A., Starchikov S.S., Lyubutina M.V., Yagupov S.V. and Strugatsky M.B.
- AA-10/8 **Temperature- and field-induced magnetic transitions in the cobalt-containing borates**
Kazak N.V., Bel'skaya N.A., Knyazev Yu.V., Molokeev M.S., Bezmaternykh L.N., Velikanov D.A., Yumashev V.V., Gavrilkin S.Yu., Ovchinnikov S.G.
- AA-10/9 **Structural stability and magnetic properties of Fe-Ni-Al and Co-Ni-Sn Heusler alloys**
Buchelnikov V.D., Sanosyan A.A., Sokolovskiy V.V., Miroshkina O.N., Gruner M.E.
- AA-10/10 **In situ TEM study of phase transformations in nonstoichiometric Geisler alloy Ni₄₆Mn₄₁In₁₃**
Kuznetsov D.D., Kuznetsova E.I., Mashirov A.V., Loshachenko A.S., Danilov D.V., Shandryuk G.A., Kalashnikov V.S., Shavrov V.G., Koledov V.V.
- AA-10/11 **Material based on superconduct YBaCuO used on magnetic levitation**
Karpukhin D. A., Terentyev Yu.A., Shavrov V. G., Koledov V.V., Malinetsky G. G., Sysoev M. A., Brazhnik P. S., Zimenkova T. S., Kurenkov P. V., Kamynin A.V., Drozdov B. V., Kovalev K. L., Safonov A. A., Poltavets V. N., Shillo S. V., Nizhelsky I., Babachanakh IA.V., Balabanov V. K., Herman I. V., Laryukhin V. S., Petrov A. O., Fongratovsky S. V., Kamantsev A. P., Dilmieva E.T., Samvelov A.V., Palchaev D. K.
- AA-10/12 **Machine learning methods for modeling multicomponent alloys**
Chtchelkatchev N.M., Ryltsev R.E.
- AA-10/13 **Impacts of exchange correlation effects on the ground state properties of Fe-Rh alloy**
Sokolovskiy V.V., Pavlukhina O.O., Baigutlin D.R., Buchelnikov V.D.

17.00-19.00 Oral Session AB**Section 6. Multiferroics and Magnetoelectric Materials****Chair:** Pyatakov A.P.

- AB-60/1 **Magnetoelectric effect in perovskite – based multiferroics RCrO₃**
Zvezdin A.K., Gareeva Z.V., Chen X.M.
- AB-60/2 **Transformation of micromagnetic structures arising in uniaxial films with the flexomanitoelectric effect in a magnetic field**

- Vakhitov R.M., Guryanova V.R., Nizyamova A.R., Solonetsky R.V., Fomin V.V.
- AB-6O/3 **Nd-Fe exchange interaction in Nd ferroborate with multiferroic properties under optical pumping**
Gavrichkov V.A., Malakhovskii A.V., Ovchinnikov S.G.
- AB-6O/4 **Tailoring of stable induced domains near a charged domain wall in lithium niobate by probe microscopy**
Kislyuk A.M., Kubasov I.V., Ilina T.S., Turutin A.V., Kiselev D.A., Temirov A.A., Malinkovich M.D., Parkhomenko Yu.N.
- AB-6O/5 **Gradient Magnetoelectric Current Sensor**
Turutin A.V., Kuts V.V., Kubasov I.V., Kislyuk A.M., Leontiev V.S., Malinkovich M.D., Parkhomenko Yu.N.
- AB-6O/6 **Suppression of acoustic and thermal noises in magnetoelectric sensors based on bidomain lithium niobate**
Turutin A.V., João V.V., Kubasov I.V., Kislyuk A.M., Malinkovich M.D., Parkhomenko Yu.N., Kobeleva S.P., Sobolev N.A.

Hall A

14.00-19.00 Poster Session AP

14.00 – 14.40 Mandatory Contact Time

Section 4. Ultrafast Magnetism and Spin Dynamics

- AP-4P/1 **Interference of spin waves excited by a train of fs-laser pulses in YIG**
Kolosvetov A.A., Kozhaev M.A., Belotelov V.I., Chernov A.I.
- AP-4P/2 **Faraday rotation dependence of a highly focused Laguerre-Gaussian beam on the focusing position relative to the magnetic film**
Fedorov A.Yu., Yavorsky M.A., Kozhaev M.A., Vikulin D.V., Barshak E.V., Bershansky V.N., Kapralov P.O., and Belotelov V.I.
- AP-4P/3 **Photoinduced dynamics of magnetization in TbCo₂/FeCo multilayer structures**
Bezvikonnyy N.V., Gaponov M.S., Ovcharenko S.V.
- AP-4P/4 **Selective and tunable excitation of standing spin waves by optical guided modes**
Krichevsky D.M., Ignatyeva D.O., Ozerov V.A. and Belotelov V.I.
- AP-4P/5 **Static and dynamic spin and orbital angular moments in ferromagnet**
Osmanov R.S., Butrim V.I., Ivanov B.A.
- AP-4P/6 **Ultrafast magneto-elastic switching in ferromagnetic nanoparticles via picosecond pulses of surface acoustic waves**
Gurov. O.E., Golov A.V, Vlasov V.S., Kotov L.N., Temnov V.V.
- AP-4P/7 **Selective excitation of magnetization precession in magnetophotonic crystals**
Sylgacheva D.A., Kozhaev M.A., Kalish A.N., Belotelov V.I.
- AP-4P/8 **Temperature dependence of Gilbert damping constant in permalloy/topological insulator heterostructures**

- AP-4P/9 **Free-carrier generation dynamics induced by ultrashort intense terahertz pulses in silicon**
Kudryavtsev A.V., Mishina E.D.

Section 3. Plasmonics and Nanophotonics

- AP-3P/1 **Magneto-Optical Response Enhancement by Surface Plasmon-Polariton Resonance in GGG/IGEF/Au Structure**
Basiladze G.D., Tomilin S.V., Berzhansky V.N.
- AP-3P/2 **Excitation of different modes in magneto-photonic crystal with plasmonic subsystem**
Tomilina O.A., Tomilin S.V., Berzhansky V.N.
- AP-3P/3 **High sensitive THz detector based on monolayer of WSe₂ with plasmonic amplification**
Zaynullin F.A., Gorbatova A.V., Lavrov S.D.
- AP-3P/4 **Broadband enhancement of TMOKE in nanostructured bismuth-substituted iron-garnet films with hybrid localized and lattice modes**
Ignatyeva D.O., Zimnyakova P.E., Karki D., Voronov A.A., Shaposhnikov A.N., Berzhansky V.N., Levy M., Belotelov V.I.
- AP-3P/5 **Reflection electron loss spectroscopy and electronic structure silicon dioxide**
 Parshin A.S.
- AP-3P/6 **Sensitivity enhancement of two-dimensional WSe₂-based photodetectors by ordered Ag plasmonic nanostructures**
Guskov A.A., Avdizhiyan A.Yu., Lavrov S.D., Galiev R.R., Gorbatova A.V.
- AP-3P/7 **Effects of strain and structure defects on polaritonic excitations dispersion in non-ideal lattices of coupled microcavities containing quantum dots**
Paladyan Yu., Fedorov S. and Rumyantsev V.
- AP-3P/8 **Iron-garnet films on various substrates for magnetoplasmonic structures**
 Mikhailova T.V., Osmanov S.V., Skorokhodov E.V., Gusev S.A., Lyashko S.D., Karavainikov A.V., Kudryashov A.L., Nedviga A.S., Milyukova E.T., Semuk E.Yu., Boyko V.O., Linnik V.V., Berzhansky V.N. and Shaposhnikov A.N.
- AP-3P/9 **Composite (SiO₂-Au) films for magnetophotonics**
 Mikhailova T.V., Lyashko S.D., Osmanov S.V., Karavainikov A.V., Kudryashov A.L., Nedviga A.S., and Shaposhnikov A.N.
- AP-3P/10 **Garnet materials for nanophotonics: nanomechanical and Raman analysis**
 Mikhailova T.V., Vysokikh Yu.E., Krasnoborodko S.Yu., Berzhansky

V.N., Shaposhnikov A.N., Bulatov M.F., Churikov D.V.

- AP-3P/11 **Modulation of light by acoustically perturbed layered nanostructures**
Knyazev G.A., Sopko I.M., Belotelov V.I., Kapralov P.O

Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics

- AP-2P/1 **RF-Circulator based on surface acoustic waves non-reciprocity induced by magnetoelastic interaction**
Andreev A.V., Safin A.R., Nikitov S.A.
- AP-2P/2 **Spin wave control in magnon dielectric microcavities by ultrashort laser pulses**
Khramova A.E. , Kobecki M., Akimov I.A., Savochkin I.V., Kozhaev M.A., Shaposhnikov A.N., Berzhansky V.N., Zvezdin A.K., Bayer M., Belotelov V.I.
- AP-2P/3 **Magnetotransport properties of spin valves based on chiral helimagnets Dy and Ho**
Zavornitsyn R.S. , Naumova L.I. , Milyaev M.A. , Makarova M.V. , Krinitina T.P. , Proglyado V.V. , Maksimova I.K. , Ustinov V.V.
- AP-2P/4 **Spin-polarized conductance of point contacts with non-collinear magnetization of electrodes**
Useinov N. Kh.
- AP-2P/5 **Dynamics of an exceptional point in a system of two coupled magnetic waveguides**
Temnaya O.S., Kalyabin D.V., Nikitov S.A.
- AP-2P/6 **Elastic Dipole Mechanism of the Collapse of Fano Resonances**
Sukhorukova O.S., Tarasenko A.S., Tarasenko S.V., and Shavrov V.G.
- AP-2P/7 **Focusing and Caustic of Magnetoelastic Waves in Monocrystalline Ga_xFe_{100-x}**
Borich M.A., Bakharev S.M., Savchenko S.P.
- AP-2P/8 **Magnetoelastic Waves Anisotropy in Galfenol Crystal**
Bakharev S.M., Borich M.A., Savchenko S.P.
- AP-2P/9 **Study of mixing formulae application for description of the microwave properties of periodic structures**
Bobrovskii S.Yu., Petrov D.A., Rozanov K.N.
- AP-2P/10 **Thin superconducting film in proximity with a ferromagnetic insulator**
Seleznyov D.V., Yagovtsev V.O., Pugach N.G.
- AP-2P/11 **Polarization control of THz emission in spintronic multilayer structure $[TbCo_2/FeCo]_x3$**
Ovcharenko S.V., Khusyainov D.I., Gaponov M.S., Klimov A.A.
- AP-2P/12 **Investigation of second-order magnetization precession modes in a two-layer ferromagnetic structure**
Abramovski I.E., Vlasov V.S., Pleshev D.A., Kotov L.N., Shcheglov V.I.

Wednesday, October 6, B Day

Hall A

9.00-11.00 Plenary Session B

Chair : Ustinov V.V.

- B-L/1 **Tunable spin-wave transport in magnonic microstructures** (*Invited*)
Sadovnikov A.V., Beginin E.N., Nikitov S.A.
- B-L/2 **Exchange interaction under optical pumping and ultrahigh pressure in magnetic insulators** (*Invited*)
 Gavrichkov V.A., Polukeev S.I., Ovchinnikov S.G.
- B-L/3 **Light-matter interactions in metal-dielectric nanocavities with tunable permittivity: fundamentals and applications** (*Invited*)
 Maccaferri Nicolòrea

11.15 -13.00 Oral Session BA

Section 2. Ferro and Antiferromagnetic Spintronics and Magnonics

Chair: Nikitov S.A

- BA-2L/1 **Spin-torque diodes: from fundamental research to applications**
(Invited)
 Zvezdin K.A.
- BA-2O/1 **Spin injection switching on and switching off**
 Bebenin N.G.
- BA-2O/2 **Detection of sub-THz frequency signals based on an antiferromagnet**
 Safin A.R.
- BA-2O/3 **Magnonic control of the superconducting spiral spin valve**
 Pugach N.G., Gusev N.A., Safonchik M.O., Belotelov V.I.
- BA-2O/4 **Peculiarities of magnetoelastic waves focusing in thick YIG film**
Bakharev S.M., Borich M.A.
- BA-2O/5 **Investigation of the phase propagation of SMSW in a YIG film by the BLS method.**
 Gubanov.V.A., Sadovnikov A.V.

14.40 - 15.40

- BA-2O/6 **Influence of the thin magnetic films anisotropy on detection of the magnetoelastic fields under magnetic field amplitude-modulated excitation**
Pleshev D.A., Asadullin F.F., Vlasov V.S., Kotov L.N., Shcheglov V.I.
- BA-2O/7 **Temperature tuning of orthoferrite-based spin-Hall oscillator**

Meshcheryakov A.A., Safin A.R., Kalyabin D.V., Nikitov S.A.,
Mednikov A.M.

BA-20/8 **Spin-wave beams formation in 3D magnonic arrays**

Khutieva A.B., Beginin E.N., Sheshukova S.E., Sadovnikov A.V.

BA-20/9 **Spin pumping experiment in heterostructures
La_{0.7}Sr_{0.3}MnO₃/SrIrO₃ and La_{0.7}Sr_{0.3}MnO₃/Pt**

Atsarkin V.A., Demidov V.V., Ovsyannikov G.A., Shaikhulov T.A.,
Stankevich K.V.

15.40 -16.45 Oral Session BB

Section 5. Nanostructured Materials and Composites

Chairmen: Bebenin N.G.

BB-O/1 Nanowires of various types: production, study of the structure and magnetic properties, possible applications Murz

Zagorskiy D., Doludenko I., Cherkasov D., Zhigalina O., Khaibullin R.

BB-O/1 Fabrication and characterization of FeNi-based thin film periodic microstructures for high frequency applications

Svalov A.V., Buznikov N.A., Melnikov G.Yu., S.M.Bhagat,
Kurlyandskaya G.V.

BB-O/2 Valley polarization effects in TMDC and iron garnet heterostructures

Kravtsov V., Ivanova T., Abramov A.N., Shilina P.V., Kapralov P.O.,
Krizhanovskii D.N., Berzhansky V.N., Belotelov V.I., Shelykh I.A.,
Chernov A.I., Iorsh I.V.

17.00-19.00

BB-50/3 Theoretical study of magnetoimpedance effect in multilayered film in the presence of ferrogel

Buznikov N.A., Kurlyandskaya G.V.

BB-50/4 Multimagnetic core/shell microwires with asymmetric nano-shell

Kolesnikova V., Baraban I., Vazquez M., Gorshenkov M., Rodionova V.

BB-50/5 Bismuth-substituted Yttrium Iron Garnet locally crystallized by laser at controlled gas atmosphere

Shelaev A.V., Sgibnev E.M., Salatov A.V., Tananaev P.N., Yankovskii G.M., Baryshev A.V.

BB-50/6 Cryogenic transmission electron microscopy in material science

Vasiliev A.L.

BB-50/7 THz radiation spectra of nanowires of magnetic metals

Fomin L., Krishtop V., Zagorskiy D., Doludenko I., Chigarev S., Vilkov E.,
Zhukova E.

- BB-5O/8 **Property control of h-BN nanosheets via tailoring of its orientation and composition**
Merenkov I.S., Varrla E.
- BB-5O/9 **Crystallization of bismuth-substituted yttrium iron garnet under low power femtosecond laser irradiation**
Sgibnev E.M., Shelaev A.V., Kulikova D.P., Salatov A.V.,
Tananaev P.N., Yankovskii G.M., Baryshev A.V.

Hall A

14.00 - 19.00 Poster Session BP

14.00 – 14.40 Mandatory Contact Time

Section 1. Fundamental Physics of Functional Materials

- BP-1P/1 **Exciton Phase in Strongly Correlated Systems with the Spin Crossover**
Orlov Yu.S., Nikolaev S.V., Dudnikov V.A., Ovchinnikov S.G.
- BP-1P/2 **Spin states of an anisotropic non-Heisenberg ferrimagnet**
Kosmachev O.A., Krivtsova A.V., Matyunina Ya.Yu., Fridman Yu.A.
- BP-1P/3 **Electronic and magnetic properties of novel iron oxides Fe₄O₅ and Fe₅O₆ at high pressures**
Zhandun V.S., Draganyuk O.N.
- BP-1P/4 **Structural, magnetic and electronic properties of Fe-Ge-Al from first principles**
Zagrebin M.A., Matyunina M.V., Sokolovskiy V.V., Buchelnikov V.D.
- BP-1P/5 **Light-Induced Ultrafast Quantum Relaxation Dynamics of Magnetically Ordered Spin Crossover Systems under High Pressure**
Orlov Yu.S., Nikolaev S.V., Ovchinnikov S.G.
- BP-1P/6 **Polarization eigenmodes in uncorrelated disordered magnetic media**
Niyazov R.A., Kozhaev M.A., Belotelov V.I.
- BP-1P/7 **Aharonov–Bohm Interferometry Based on Helical Edge States**
Niyazov R.A., Aristov D.N., Kachorovskii V.Yu.
- BP-1P/8 **Influence of duration of electropulse treatment on structure and martensitic transformation of melt-spun TiNiCu alloys**
Shelyakov A.V., Sitnikov N.N., Zaletova I.A., Borodako K.A.,
Vysotina E.A.
- BP-1P/9 **Structural and thermal stability of B₂₀-type monogermanides synthesized under high pressure**
Magnitskaya M.V., Chchelkatchev N.M., Kamaeva L.V.,
Tsvyashchenko A.V.
- BP-1P/10 **Synthesis and magnetic properties of ferrite ceramics Ba_{1-x}Sr_xFe₁₂O₁₉.**
Zhivulin V.E., Boldin A.A., Taskaev S.V., Vinnik D.A.
- BP-1P/11 **Magnetocaloric properties in polycrystalline Mn₅Si₃**
Mashirov A.B., Musabirov I.I., Mitsiuk V.I., Kamantsev A.P., Shavrov V.G.

- BP-1P/12 **Non-trivial features of magnetocaloric alloys of the system $\text{MnCo}_x\text{Ni}_{1-x}\text{Ge}_{1.05}$**
Valkov V.I., Golovchan A.V., Kovalev O.E., Gribanov I.F., Sivachenko A.P., Mitsiuk V.I., Mashirov A.V.
- BP-1P/13 **The critical currents of superconducting rhodium borides**
Lachenkov S. A., Vlasenko V. A., Kasyanov V. S., Gavrilkin S.Yu., Kirillova V. M., Dementyev V. A., Sdobyrev V.V.
- BP-1P/14 **Investigation of $\text{Fe}_{49}\text{Rh}_{51}$ alloy by wide-field Kerr microscopy**
Taaev T.A., Soldatov I.V., Amirov A.A., Aliev A.M., Schäfer R.
- BP-1P/15 **Multigap superconductivity and electron correlations in $\text{Mo}_8\text{Ga}_{41}$ and $\text{Mo}_4\text{Ga}_{20}\text{Sb}$ as seen by NMR and NQR spectroscopy**
Gunbin A.V., Tkachev A.V., Zhurenko S.V., Gippius A.A., Verchenko V.Yu., Shevelkov A.V.
- BP-1P/16 **Magnetic transitions in the $\text{Co}_{2.5}\text{Ge}_{0.5}\text{BO}_5$**
Belskaya N.A., Kazak N.V., Vasilev A.D., Bezmaternykh L.N., Velikanov D.A., Gavrilkin S.Yu., Ovchinnikov S.G.
- BP-1P/18 **Magnetic birefringence of acoustic vortices in Iron Borate**
Prilepsky D.Yu., Strugatsky M.B.
- BP-1P/19 **Transformation of longitudinal sound in iron borate controlled by magnetic field**
Strugatsky M., Skibinsky M., Yagupov S., Khizhn V.
- BP-1P/20 **Flux growth of $\text{Fe}_{0.94}\text{Me}_{0.06}\text{BO}_3$ (Me = Al, Ga, Sc) single crystals**
Mogilenec Yu., Seleznyova K., Yagupov S., Seleznev K., Nauhatsky I., Maksimova E., Strugatsky M.
- BP-1P/21 **Dipole-dipole contribution to magnetocrystalline anisotropy constants of iron-gallium borates**
Seleznyova K., Strugatsky M., Mogilenec Yu., Yagupov S., Kliava J.
- BP-1P/22 **Influence of arsenic substitution for phosphorus on the helimagnetic structure of FeP**
Zhurenko S.V., Tkachev A.V., Gunbin A.V., Chernyavskii I.O., Morozov I.V., Moskvina A.S., Gippius A.A.
- BP-1P/23 **Thermal radiation from a magnetized semiconductor**
Bychkov I.V., Kuzmin D.A., Shavrov V.G.
- BP-1P/24 **Isotopically modified single crystal silicon as functional material: effect of isotopic composition on lattice constant**
Sozontov E.A.
- BP-1P/25 **Influence of the dislocation density on the dynamic yield stress under high strain rate deformation**
Varyukhin V.N., Malashenko V.V., Malashenko T.I.
- BP-1P/26 **Exchange interactions in TbCu_2**
Golovchan A.V., Nirkov N.Yu., Andreychenko E.P., Mitsiuk V.I., Mashirov A.V.
- BP-1P/27 **Fermi surface nesting of Fe_3Ga_4 alloy**
Sokolovskiy V.V., Miroszkina O.N., Zagrebin M.A., Baigutlin D.R., Buchelnikov V.D.
- BP-1P/28 **Quantum-chemical modeling of the efficiency of using polyarylenes in**

- interface structures**
Kalimullina L.R., Lachinov A.N., Baybulova G.Sh.
- BP-1P/29 **Spontaneous phase transitions in the bubble lattice of ferrite-garnet film**
Siryuk Yu.A., Bezus A.V., Bondar E.D., Kononenko V.V.
- BP-1P/30 **Experimental studies and *ab initio* calculations of $Tb_2Ti_2O_7$ and $(Er_{0.05}Y_{0.95})_2Sn_2O_7$ pyrochlore systems properties**
Spiridonova A.V., Romanova I.V., Nedopekin O.V.
- BP-1P/31 **Thermal transient mechanical loss in Ni-Mn-Ga alloys**
Kaminskii V.V., Kalganov D.A.
- BP-1P/32 **Formation of the equilibrium lattices of stripe domain structure in the ferrite-garnet film**
Siryuk Yu.A., Bezus A.V., Bondar E.D., Kononenko V.V.
- BP-1P/33 **Atomic-force microscopy: Application to investigation of surface morphology of R 2 Fe 14 B functional materials**
Kaminskaya T.P., Pelevin I.A., Paukov M.A., Tereshina I.S.
- BP-1P/34 **Thermal Behaviour of Hollandite-like Solid Solutions in the TiO_2 - K_2O - MnO - Al_2O_3 System**
Saunina S.I., Tretyachenko E.V., Maksimova L.A., Vikulova M.A., Zakharyevich D.A., Gorokhovskiy A.V., Iagafarov Sh.Sh.
- BP-1P/35 **Influence of multi-axial isothermal forging on the stability of martensitic transformation in the Heusler alloy of the Ni-Mn-Ga system**
Gaifullin R.Yu., Musabirov I.I., Safarov I.M., Galejev R.M.
- BP-1P/36 **Phase states and spectra of isotropic non-heisenberg magnet with $s=2$**
Kosmachev O.A., Fridman Yu.A., Ivanov B.A.
- BP-1P/37 **Phase states of spin-1 Ising-like magnetic with strong single-ion anisotropy**
Yarygina E.A., Klevets Ph.N., Fridman Yu.A.
- BP-1P/38 **Is it possible to control stress states in metals by conducting polymers**
Lachinov A.N., Galiev A.F., Karamov D.D., Lachinov A.A.
- BP-1P/39 **Theoretical prediction of the structure and electronic properties M_2AX phase ($M=Fe, Cr, Mn$; $A=Al, Si$; $X=C$)**
Tomilin F.N., Kozak V.V., Ivanova D.A., Fedorova N.A., Shubin A.A., Ovchinnikov S.G.
- BP-1P/40 **Distant Efficiency of Magneto-optical Eddy Current Defectoscopy**
Lugovskoy N., Berzhansky V.N.
- BP-1P/41 **Magnetic properties and size effect of iron borate $FeBO_3$**
Snegirev N.I., Lyubutin I.S., Yagupov S.V., Chuev M.A., Chumakov N.K., Svetogorov R.D., Strugatsky M.B.

Thursday, October 7, C Day

Hall A

9.00 -11.00 Plenary Session C

Chair: Ovchinnikov S.G.

- C-L/1 **Resolving chicken-or-egg causality dilemma for magneto-structural phase transition in FeRh in high magnetic fields** (*Invited*)
Kimel A. V.
- C-L/2 **Control of interlayer exchange interaction in multilayer magnetic nanostructures: magnetoelectric and magnetocaloric effects** (*Invited*)
Fraerman A.A.
- C-L/3 **On the magnetoelectricity in micromagnetism. The electric field-induced nucleation of 180⁰-, 90⁰-, and 0⁰- domain walls** (*Invited*)
Pyatakov Alexander

11.15 -13.00 Oral Session CA1

Section 3. Plasmonics and Nanophotonics

Chair: Bychkov I.V.

- CA1-3L/1 **Anomalous magneto-optical effects in high index contrast magneto-optical Mie resonators** (*Invited*)
Lei Bi
- CA1-3O/2 **Magnetoplasmonic waveguides based on metal/opal composite**
Kolmychek I.A., Romashkina A.M., Mamonov E.A., Novikov V.B., Gusev N.S., Sapozhnikov M.V., Golubev V.G., Murzina T.V.
- CA1-3O/1 **Magneto-optics of all-dielectric nanostructures with guided modes**
Ignatyeva D.O., Voronov A.A., Karki D., Kozhaev M.A., Levy M., Belotelov V.I.
- CA1-3O/2 **Three-periodic one-dimensional magnetic photonic crystals**
Dadoenkova N.N., Dadoenkova Yu.S., Panyaev I.S., Sannikov D.G.
- CA1-3O/3 **Plasmonics of magnetic and topological graphene-based nanostructures**
Kuzmin D.A., Bychkov I.V., Shavrov V.G., Temnov V.V.

14.40 – 15.25

- CA1-3O/4 **Linear and nonlinear surface plasmon polaritons**
Dzedolik I.V.
- CA1-3O/5 **Surface plasmon polaritons in a hybrid layered structure based on graphene and phase change material**
Kharitonova O.G., Bychkov I.V., Shavrov V.G., Kuzmin D.A.

- CA1-30/6 **Excitation of surface plasmon polaritons in the vanadium dioxide-silicon dioxide-hyperbolic metasurface structure.**
Usik M.O., Kuzmin D.A., Bychkov I.V., Shavrov V.G.
- CA1-30/7 **MOD-made bismuth-substituted yttrium iron garnet and oxides for 1D magnetophotonic crystals**
Efremova S.L., Salatov A.V., Kulikova D.P., Kasyanov A.A., Bykov I.V., Afanasiev K.N., Tananaev P.N., Baryshev A.V.
- CA1-30/8 **Structural, optical and magneto-optical properties of binary NiFeOx/Pt nanofilm for hydrogen detection**
Kulikova D.P., Efremova S.L., Afanasyev K.N., Bykov I.V., Baryshev A.V.

Hall A

15.25 -16.40 Oral Session CB1

Section 4. Ultrafast Magnetism and Spin Dynamics

Chair: Belotelov V.I.

- CB1-40/1 **Spin dynamics in ferrimagnets near the angular momentum compensation point**
Zvezdin A.K., Gareeva Z.V.
- CB1-40/2 **Spin wave resonances excited by inverse Faraday effect in magnetophotonic microcavity**
Kozhaev M.A., Krichevsky D.M., Sylgacheva D.A., Ozerov V.A., Belkova A.V., Evstigneeva S.A., Pakhomov A.S., Chernov A.I., Polulyakh S.N., Semuk E.Yu., Berzhansky V.N., Belotelov V.I.
- CB1-40/3 **Spectrum evolution of magnetostatic waves optically excited by ultrafast magnetic anisotropy change**
Khokhlov N.E., Filatov Ia.A., Gerevenkov P.I., Wang M., Rushforth A.W., Kalashnikova A.M.

17.00 -19.00

- CB1-40/4 **Ultrafast laser-induced demagnetization in thin ferromagnetic galfenol films**
Kuntu D.V., Shelukhin L.A., Rushforth A.W., Kalashnikova A.M.
- CB1-80/5 **Photoinduced spin dynamics in a uniaxial intermetallic heterostructure TbCo₂/FeCo**
Gaponov M.S., Ovcharenko S.V.
- CB1-80/6 **Domain wall motion across magnetic and spin compensation points in ferrimagnets**
Logunov M.V., Safonov S.S., Fedorov A.S., Fedorova A.A., Moiseev N.V., Safin A.R., Nikitov S.A., and Kirilyuk A.

- CB1-80/7 **Nonlinear magnetization dynamics in bistable ferromagnetic nanoparticles via oscillating magnetic/magnetostatic fields**
Vlasov V.S., Golov A.V., Gurov O.E., Kotov L.N., Shcheglov V.I., Lomonosov A.M., Temnov V.V.
- CB1-80/8 **Laser-Induced Magnetization Precession in Individual Magnetoelastic Domains of a Multiferroic CoFeB/BaTiO₃ Structure**
Shelukhin L.A., Pertsev N.A., Scherbakov A.V., Kazenwadel D., Kirilenko D.A., Hämäläinen S.J., van Dijken S., Kalashnikova A.M.

Hall B

11.15 - 13.00 Oral Session CA2

Section 7. Topological Materials and Materials for Quantum Technologies

Chair: Bunkov.Yu.M.

- CA2-7L/1 **Quantum fluctuations in quasi-one-dimensional superconductors**
(Invited)
Arutyunov K. Yu., Lehtinen J. S., Radkevich A., Semenov A. G., Zaikin A. D.
- CA2-7O/1 **The mechanisms of spin polarization in Doped Perforated Bilayer Graphenes**
 Avramov P.V.
- CA2-7O/2 **Phase change materials for neuromorphic applications**
Ionin V.V., Eliseev N.N., Burtsev A.A., Kiselev A.V., Mikhalevsky V.A., Lotin A.A.
- CA2-7O/3 **Laser-controlled optical properties' contrast change dynamics of GeTe and Ge₂Sb₂Te₅ thin films**
 Kiselev A.V., Ionin V.V., Burtsev A.A., Eliseev N.N., Mikhalevsky V.A., Lotin A.A.
- CA2-7O/4 **Electronic structure and properties of topological Weyl semimetal MoTe₂ and WTe₂ single crystals**
Domozhirova A.N., Naumov S.V., Makhnev A.A., Shreder E.I., Lukoyanov A.V., Podgornykh S.M., Marchenkova E.B., Chistyakov V.V., Huang J.C.A., Marchenkov V.V.
- CA2-7O/5 **Thermodynamic, dynamic and transport properties of quantum spin liquid**
 V.R. Shaginyan
- CA2-7O/6 **Reentrant superconductivity in proximity to a topological insulator**
 Karabassov T., Vasenko A.S.
- CA2-7O/7 **Self-dual criticality in the problem of the complexity emergence: superconducting materials between types I and II**
Shanenko A. A., Sarmiento M. A., Córdoba-Camacho W. Y., Vagov A., Stolyarov V. S.

14.40- 16.40 Oral Session CB2**Section 8. Materials for Medical and Ecological Applications. Biosensors****Chair:** Rodionova V.V.

- CB2-80/1 **A first MEG-feasible fluxgate magnetometer.**
Vetoshko P.M., Kuzmichev A.N., Ostras M.I., Koshev N., Butorina A., Skidchenko E., Fedorov M., Ossadtchi A.
- CB2-80/2 **Tantalum oxide nanoparticles for cancer therapy and diagnosis**
Koshevaya E.D., Morozov V.N., Kolyvanova M.A., Krivoschapkina E.F., Krivoschapkin P.V.
- CB2-80/3 **Biomimetic layers of acrylic composites based on SiO₂-hydroxyapatite complex for Enhanced Bone Regeneration**
Burunkova J.A., Sviazhina D.S., Fisenko A.A., Mizina D.R., Levshits M.D., Strelnikova I.E., Charnovich I., Kokenyesi S.
- CB2-80/4 **Study of MXenes as novel therapeutic agents for the liver cancer treatment**
Sobolev K.V., Motorzhina A.V., Pschenichnikov S.E., Levada E.V., Pazniak A.I., Rodionova V.V.
- CB2-80/5 **Hydrogen sensing by a Fabry-Perot resonator fabricated from tungsten trioxide and assembled by optical contacting**
Kasyanov A.A., Kulikova D.P., Efremova S.L., Afanasiev K.N., Tananaev P.N., Baryshev A.V.

Hall A**14.00 – 19.00 Poster Session CP****14.00 – 14.40 Mandatory Contact Time****Section 5. Nanostructured Materials and Composites**

- CP-5P/1 **UHF negative magnetoresistance of composite metal-dielectric films CoFeB/SiO₂**
Kotov L.N., Lasek M.P., Vlasov V.S., Kalinin Yu.V., Sitnikov A.V.
- CP-5P/2 **Self-oscillations in a freely suspended amorphous tape of Ti₂NiCu alloy under the influence of an electric current**
Morozov E.V., Koledov V.V., Shavrov V.G.
- CP-5P/3 **Magnetic circular dichroism and Faraday effect of Bi-containing nanometer-thick garnet films**
Fedorov A.S., Fedorova A.A., Safonov S.S., Kotov V.A., Nikitov S.A., Stognii A., Logunov M.V.

- CP-5P/4 **Local atomic structure and magnetic properties of amorphous iron-based alloys deformed by high-pressure torsion at different temperatures**
Sundeev R.V., Shalimova A.V., Glezer A.M., Veligzhanin A.A., Perov N.S., Alekhina Yu.A.
- CP-5P/5 **Effect of isothermal and electric-pulse processing on the structure and properties of rapid-quenched $Ti_{50}Ni_{25}Cu_{25}$ ribbons with a surface crystal layer**
Sitnikov N.N., Shelyakov A.V., Zaletova I.A.
- CP-5P/6 **The controlled synthesis of multilayer nanotubes performed by chemical vapor deposition**
Sokologorskiy.Y.Y., Panov V.A., Shamsuvaleev R.I., Nikolaeva S.S., Lavrov S.D
- CP-5P/7 **Magneto-resistive composite materials based on organic matrixes**
Kabirov Yu.V., Sidorenko E.N., Belokobylsky M.V., Klochnev A. M., Prutsakova N.V., , Chernyaev V.V.
- CP-5P/8 **Martensitic transformation at the nanoscale: experiment and computer simulations**
Lega P.V., Kartsev A.I.
- CP-5P/9 **Functional properties of multilayer structures based on aluminum nitride**
Solnyshkin A.V., Sergeeva O.N., Shustova O.A., Fenogenova V.V., Pronin I.P., Sharofidinov Sh.Sh.
- CP-5P/10 **Atomic diffusion analysis of Al-Ti composite by atomistic simulation**
Polyakova P.V., Baimova J.A.
- CP-5P/11 **Magnetic properties, domain structure and magnetoimpedance effect in multilayered elements based on permalloy**
Pasynkova A.A., Svalov A.V., Kurlyandskaya G.V.
- CP-5P/12 **Photoresistors based on polyindole thin films**
Mullagaliev I.N., Andriianova A.N., Salikhov R.B.
- CP-5P/13 **Thin-film phototransistors based on fullerene and photochrome derivatives**
Salikhov R.B., Mullagaliev I.N., Salikhov T.R.
- CP-5P/14 **Co/Cu Nanowires and the effect of Co layer thickness on magnetic properties**
Gilimyanova A.R., Doludenko I.M., Zagorskiy D., Menushenkov V.P., Bizyaev D.A., Khaibullin R.
- CP-5P/15 **The influence of catalyst size on carbon nanotubes synthesis**
Konshyn A.A., Tomilin S.V., Osokin K.S., Berzhansky V.N.
- CP-5P/16 **Modification of iron-garnet films properties by the method of ionic etching**
Syrov A.A., Tomilin S.V., Semuk E.Yu., Berzhansky V.N.

- CP-5P/17 **The distribution of film thickness during magnetron deposition**
Tomilin S.V., Berzhansky V.N., Tomilina O.A.
- CP-5P/18 **Reveal of a new source of magnonic relaxation rate in the interface between epitaxial iron garnet ferrite film and GGG substrate.**
Kuzmichev A.N., Bunkov Y.M., Vetoshko P.M., Belotelov V.I., Berzhansky V.N., Shaposhnikov A.N., Fedorenko A.A.
- CP-5P/19 **Ab initio study of phase stability of Ni-Co-Mn-Ga Heusler alloys**
Erager K.R., Sokolovskiy V.V., Buchelnikov V.D.
- CP-5P/20 **Granulometry of Nanocomposite Films Using Modern IT Techniques**
Ustyugov V.A., Makarov P.A., Vlasov V.S., Kotov L.N., Turkov V.K.
- CP-5P/21 **Study of the effect of optical radiation on the photoconductivity of the interface between two polymer dielectrics**
Yusupov A.R., Panova N.A., Lachinov A.N.
- CP-5P/22 **Studying magnetic properties of PVDF-TrFE-based nanocomposites**
Gritsenko Ch.A., Omelyanchik A.S., Kolesnikova V.G., Rodionova V.V.
- CP-5P/23 **Scanning probe microscopy as a multifunctional tool to study polymer-based composites**
Sobolev K., Antipova V., Amirov A., Rodionova V.
- CP-5P/24 **Ion beam engineering of magnetic nanostructures**
Gusev S.A., Sapozhnikov M.V., Tatarskiy D.A., Petrov Yu. V.
- CP-5P/25 **Magneto-optical studies of nanostructured InAs:Fe layers**
Gan'shina E.A., Golik L.L., Kun'kova Z.E., Pripechenkov I.M., Rukovishnikov A., Markin Yu.V.
- CP-5P/26 **Analysis and FDTD modelling of electromagnetic waves propagation in magnetic inhomogeneous composite films**
Makarov P.A., Ustyugov V.A., Vlasov V.S., Kotov L.N.
- CP-5P/27 **Superexchange in 2D perovskite HTSC with stripe nanostructure**
Gavrichkov V.A.
- CP-5P/28 **Development of a technique for studying thin films by scanning electron microscopy**
Utkin A.A., Kotov L.N., Urban V.V.
- CP-5P/29 **Magneto-resistance of $(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_{34}(\text{SiO}_2)_{66}/\text{ZnO}$ multilayer films**
Zhilova O.V., Makagonov V.A., Pankov S.Yu., Babkina I.V., Kashirin M.A.
- CP-5P/30 **The method for efficient extraction of fullerenes and enrichment of EMF in an extractor**
Elesina V.I., Churilov G.N., Vnukova N.G.
- CP-5P/31 **Storage of metal nanoparticles in the pores of crumpled graphene**
Safina L.R., Krylova K.A., Murzaev R.T., Baimova J.A.
- CP-5P/32 **Effect of thickness on the electrical and optical properties of NbO_x thin films**
Pankov S.Yu., Zhilova O.V., Kashirin M.A., Makagonov V.A., Chetverikova A.P.

- CP-5P/33 **Studies of the phase composition in a nanostructured alloy 36H**
Yusupova N.R., Krylova K.A., Mylukov R.R.
- CP-5P/34 **Plasma-chemical doping of hexagonal boron nitride nanowalls and related properties**
Voroshnina A.A., Merenkov I.S.
- CP-5P/35 **Ultrafast Carrier Dynamics in MoS₂/SiO₂/Si**
Lebedeva E.D., Pimenov N.Yu., Brekhov K.A., Lavrov S.D.
- CP-5P/36 **Microwave reflecting and absorbing properties of thin metal films during the percolation transition**
Fitaev I.S., Mazinov A.S.
- CP-5P/37 **Research of heterojunctions based on the system of fullerene and Zinc complex**
Mazinov A.S., Tyutyunik A.S., Gurchenko V.S.
- CP-5P/39 **Magnetoelectric transformer with variable thickness of the magnetic layer**
Chashin D.V., Fetisov L.Y., and Fetisov Y.K.
- CP-5P/40 **The effect of heat treatment on structure and soft magnetic properties of Fe_{70.8}Co₁₀B₁₀Si_{1.5}P₇Cu_{0.7} nanophase composite**
Vasiliev S.V., Svyrydova K.A., Kostyrya S.A., Moiseeva T.N., Glazunova V.A., Konstantinova T.E., Tkatch V.I.
- CP-5P/41 **The role of oxygen in the formation of a continual metal shell strongly bonded to the carbon surface**
Churilov G.N., Glushenko G.A., Tomashevich Ye.V., Nikolaev N.S., Vnukova N.G.
- CP-5P/42 **Synthesis and proton conductivity of hybrid materials based modified by polyantimonic acid**
Yaroshenko F.A., Lupitskaya Yu.A., Filonenko E.M.
- CP-5P/43 **Thin-film phototransistors based on fullerene and photochrome derivatives**
Salikhov R.B., Mullagaliev I.N., Salikhov T.R.

Friday, October 8, D Day

Hall A

9.00-10.20 **Plenary Session D**

Chair: Ekomasov E.G.

- D-L/1 **Magnon BEC application for quantum computing** (*Invited*)
Bunkov Y.M.
- D-L/2 **Ultrafast magneto-acoustics in ferromagnetic nanostructures** (*Invited*)
Temnov Vasily

11.15 -13.00 **Oral Session DA**

Section 3. Plasmonics and Nanophotonics

Chair: Baryshev A.V.

- DA-L/1 **Bound states in continuum: Some intriguing results** (*Invited*)
Venu Gopal Achanta
- DA-L/2 **Surface and Interface Nano-Engineering of Magnetic Thin Films for Controlled Magneto-Optical Effects** (*Invited*)
Song Yujun, Belotelov Vladimir I., Lou1 Peiyang, Zhang Chang, Zhu Xiaomin
- DA-L/3 **Plasmonic structures for neuroplasmonic applications** (*Invited*)
Hamidi S. M.

Hall A

9.00 -13.00 **Poster Session DP**

10.00 – 11.00 **Mandatory Contact Time**

Section 6. Multiferroics and Magnetoelectric Materials

- DP-6P/1 **Phase transitions and phase transformations in the phase separation nano-regions in ErMn₂O₅**
Khannanov B.Kh., Lushnikov S.G., Golovenchits E.I., Sanina V.A.
- DP-6P/2 **Coexistence of two ferromagnetic phases in perovskite binary systems of multiferroics (1-x)BiFeO₃-xRMnO₃ (R = Y, Sc)**
Mikhaylov V.I., Tarassenko T.N., Kravchenko Z.F., Kovalev O.E., Golovchan A.V., Valkov V.I.

- DP-6P/3 **Fluctuation mechanism of dielectric losses in Bi-doped $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$ ferroelectric ceramics**
Popov I.I., Gridnev S.A.
- DP-6P/4 **The methods of fine variation of PZT composition in the area of morphotropic phase boundary for MEMS and multiferroic applications**
Pronin I.P., Kaptelov E.Yu., Senkevich S.V., Staritsyn M.V., Pronin V.P.
- DP-6P/5 **Magnetic structure of Sr-doped bismuth ferrite series**
Gervits N.E., Tkachev A.V., Zhurenko S.V., Gunbin A.V., Pokatilov V.S., Bogach A.V., Gippius A.A.
- DP-6P/6 **Planar voltage magnetoelectric transformer**
Fetisov L.Y., Chashin D.V., Savelyev D.V. and Fetisov Y.K.
- DP-6P/7 **Parametric noise generation in the piezoelectric-ferromagnet structure**
Burdin D.A., Chashin D.V., Ekonomov N.A., Fetisov Y.K., Preobrazhenski V.L.
- DP-6P/8 **Photoexcited phonon modes in $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$**
Brekhov K.A., Bilyk V.R., Gaponov M.S., Ilyin N.A.
- DP-6P/9 **Relaxation of the current at constant voltage in the reduced lithium niobate**
Shportenko A. S., Kubasov I. V., Turutin A. V.; Kislyuk. A.M., Zhukov R. N., Malinovich M. D., Parkhomenko Yu. N.
- DP-6P/10 **Magnetoelectric Effect in PVDF - nanoparticles composite**
Omelyanchik A., Antipova V., Kolesnikova V., Sobolev K., Amirov A., Gritsenko Ch., Levada K., Rodionova V.
- DP-6P/11 **Dilatometry technique in a study of the ferroelectric composites**
Rodionov V., Borov D.
- DP-6P/12 **High-Tc ferroelectricity in a new molecular magnetoelectric ytterbium (III) complex**
Gorbatova A.V., Ivanov M.S., Avdizhiyan A.Y., Guskov A.A., Long J.

Section 7. Topological Materials and Materials for Quantum Technologies

- DP-7P/1 **Magnetic properties and structural perfection of $\text{Fe}_{1-x}\text{Ga}_x\text{BO}_3$ single crystals designed for monochromatization of synchrotron radiation**
Lyubutina M.V., Snegirev N.I., Lyubutin I.S., Kulikov A.G., Zolotov D.A., Vasiliev A.L., Yagupov S.V., Mogilenec Yu.A., Seleznyova K.A., and Strugatsky M.B.
- DP-7P/2 **Simulation of quantum system using neural networks**
Kozacheck V.V., Klevets Ph.N., Yarygina E.A.
- DP-7P/3 **Electrical conductivity kinetics due to the nanosecond laser radiation induced phase changes in GeTe and GST thin films**
Eliseev N.N., Ionin V.V., Burtsev A.A., Kiselev A.V., Mikhalevsky V.A., Lotin A.A.

- DP-7P/4 **Quantum size phenomena in thin superconducting films**
Arutyunov K. Yu., Sedov E. A. , Zavialov V.V., Konstantinidis G., Stavrinidis A., Stavrinidis G., Vasiliadis I., Kehagias T., Dimitrakopoulos G. , Komninou Ph., Croitoru M. D., Shanenko A. A.
- DP-7P/5 **Electronic structure of atomically thin $\text{Mo}_x\text{W}_{1-x}\text{S}_2\text{ySe}_{2(1-y)}$ alloys**
Pimenov N.Y., Lavrov S.D., Avdizhiyan A.Y.
- DP-7P/6 **Inverse Spin Hall effect in ferrite-garnet/topological insulator heterostructures**
Shilina P.V., Gogueva D.S., Kapralov P.O., Tereshchenko O.E., Zvezdin A.K. , Belotelov V.I.

Section 8. Materials for Medical and Ecological Applications. Biosensors

- DP-8P/1 **Gold-coated Janus-like Fe-Si magnetic nanoparticles for biomedical applications**
Lyaschenko S.A., Yakovlev I.A., Tarasov I.A., Velikanov D.A., Nemtcev I.V., Volochaev M.N., Varnakov S.N., Ovchinnikov S.G.
- DP-8P/2 **Magneto-ellipsometry study of MAX-phases: Mn_2GaC thin films**
Lyaschenko S.A., Maximova O.A., Varnakov S.N., Ovchinnikov S.G.
- DP-8P/3 **Fe_3O_4 -Au nanoparticles as approach for diagnostic of Crohn's Disease**
 Grigoreva Z., Gritsenko, Efremova M., Abakumov M., Nevzorova Y. A., Estevez O., Rodionova V. V., Levada E. V.
- DP-8P/4 **Influence of the parameters of an output amplifier on the efficiency of THz radiation detection**
Ryabukhin V.E., Mishina E.D.
- DP-8P/5 **Magnetic field induced transformation of NMR transverse relaxation rate for protons in low-concentrated magnetic fluids over time**
Gorbovanov A.I., Aleksashkin I.V., Gusev A.N., Dubas V.V., Polulyakh S.N.
- DP-8P/6 **The relaxometry of magnetic nanoparticles with YIG based sensor.**
 Vetoshko P.M., Kuzmichev A.N., Ostras M.I. and Belotelov V.I.
- DP-8P/7 **Microwave heating applied to improve efficiency of metal reduction from EAF dust**
 Bychkov I.V., Anzulevich A.P., Butko L.N., Kalганov D.A.
- DP-8P/8 **Obtaining of cylindrical magnetic nanoparticles for modification of polymer microcapsules**
Doludenko I.M., Mikheev A.V., Burmistrov I.A., Trushina D.B., Borodin T.N., Bukreeva T.V., Zagorskii D.L.
- DP-8P/9 **Electronic sensors of relative air humidity based on thin films of polyanilines**
 Mullagaliev I.N., Salikhov R.B., Zinnatulina A.A.
- DP-8P/10 **Thin films of polyanilines for detecting of ammonia vapors concentration**
Salikhov R.B., Mullagaliev I.N., Salikhov T.R.
- DP-8P/11 **Investigation of the spatial structure of bionanoconjugates based on**

DNA aptamers by synchrotron methods

Moryachkov R.V., Zabluda V.N., Shchugoreva I.A., Artyushenko P.V., Kichkailo A.S., Spiridonova V.A., Berlina A.N., Sokolov A.E.

DP-8P/12 **Copper nanowires as a catalyst for CO oxidation**

Panov D.V., Bychkov V.Yu., Tulenin Yu.P., Zagorskiy D.L.

DP-8P/13 **Magnetic-plasmonic nanoheterostructures based on gold and magnetic iron oxides**

Omelyanchik A.S., Rodionova V.V.

DP-8P/14 **Functional materials for magnetomechanical cell surgery**

Sokolov A.E., Ivanova O.S., Svetlitckiy E.S., Zabluda V.N., Borus A.A., Lin C.-R.

12.45 – 13.00 Closing

14.00 -19.00 Excursion

Author Index

A

Abakumov M. DP-8P/3
 Abramov A.N. BB-O/2
 Abramovski I.E. AP-2P/12
 Afanasiev K.N. CB2-8O/5, CA1-3O/7
 Afanasyev K.N. CA1-3O/8
 Akimov I.A. AP-2P/2, A-L/3
 Alekhina Yu.A. CP-5P/4
 Aleksashkin I.V. DP-8P/5
 Aliev A.M. BP-1P/14
 Amirov A. DP-6P/10, CP-5P/23, BP-1P/14
 Andreev A.V. AP-2P/1
 Andreychenko E.P. BP-1P/26
 Andriianova A.N. CP-5P/12
 Antipova V. DP-6P/10, CP-5P/23
 Anzulevich A.P. DP-8P/7
 Aristov D.N. BP-1P/7
 Artyushenko P.V. DP-8P/11
 Arutyunov K. Yu. DP-7P/4, CA2-7L/1
 Asadullin F.F. BA-2O/6
 Atsarkin V.A. BA-2O/9
 Avdizhiyan A.Y. DP-7P/5, DP-6P/12, AP-3P/6
 Avramov P.V. CA2-7O/1

B

Babachanakh I.A.V. AA-1O/11
 Babkina I.V. CP-5P/29
 Baigutlin D.R. BP-1P/27, AA-1O/12
 Baimova J.A. CP-5P/31, CP-5P/10
 Bakharev S.M. BA-2O/4, AP-2P/8, AP-2P/7
 Balabanov V. K. AA-1O/11
 Baraban I. BB-5O/4
 Barshak E.V. AP-4P/2
 Baryshev A.V. CP-5P/37, CB2-8O/5, CA1-3O/8, CA1-3O/7, BB-5O/5
 Basiladze G.D. AP-3P/1
 Baybulova G.Sh. BP-1P/28
 Bayer M. AP-2P/2
 Bebenin N.G. BA-2O/1
 Beginin E.N. BA-2O/8, B-L/1
 Bel'skaya N.A. AA-1O/8
 Belkova A.V. CB1-4O/2
 Belokobylsky M.V. CP-5P/7
 Belotelov V.I. DP-8P/6, DA-L/2., CP-5P/18, CB1-4O/2, CA1-3O/1, BP-1P/6,
 Belskaya N.A. BP-1P/16
 Berlina A.N. DP-8P/11
 Berzhansky V.N. CP-5P/18, CP-5P/17, CP-5P/16, CP-5P/15,
 Bezmaternykh L.N. BP-1P/16, AA-1O/8
 Bezus A.V. BP-1P/32, BP-1P/29
 Bezikonny N.V. AP-4P/3
 Bilyk V.R. DP-6P/8
 Bizyaev D.A. CP-5P/14
 Bobrovskii S.Yu. AP-2P/9
 Bogach A.V. DP-6P/5
 Bondar E.D. BP-1P/32, BP-1P/29
 Borich M.A. BA-2O/4, AP-2P/8, AP-2P/7
 Borodako K.A. BP-1P/8

Borodin T.N. DP-8P/8
 Borov D. DP-6P/11
 Borus A.A. DP-8P/14
 Bostrem I.G. AA-1O/2
 Boyko V.O. AP-3P/8
 Brazhnik P. S. AA-1O/11
 Brekhov K.A. DP-6P/8, CP-5P/35
 Buchelnikov V.D. CP-5P/19, BP-1P/27, BP-1P/4, AA-1O/12, AA-1O/9
 Bukreeva T.V. DP-8P/8
 Bulatov M.F. AP-3P/10
 Bunkov Y.M. D-L/1, CP-5P/18
 Burdin D.A. DP-6P/7
 Burmistrov I.A. DP-8P/8
 Burtsev A.A. DP-7P/3, CA2-7O/3, CA2-7O/2
 Burunkova J.A. CB2-8O/3
 Butko L.N. DP-8P/7
 Butorina A. CB2-8O/1
 Butrim V.I. AP-4P/5
 Buznikov N.A. BB-5O/3, BB-O/1
 Bychkov I.V. DP-8P/7, CA1-3O/6., CA1-3O/5, CA1-3O/3, BP-1P/23
 Bychkov V.Yu. DP-8P/12
 Bykov I.V. CA1-3O/8, CA1-3O/7

C

Charnovich I. CB2-8O/3
 Chashin D.V. DP-6P/7, DP-6P/6, CP-5P/39
 Chen X.M. AB-6O/1
 Cherkasov D. BB-L/1
 Chernov A.I. CB1-4O/2, BB-O/2, AP-4P/8, AP-4P/1
 Chernyaev V.V. CP-5P/7
 Chernyavskii I.O. BP-1P/22
 Chetverikova A.P. CP-5P/32
 Chigarev S. BB-5O/7
 Chistyakov V.V. CA2-7O/4
 Chtchelkatchev N.M. BP-1P/10, BP-1P/9
 Chuev M.A. AA-1O/7
 Churikov D.V. AP-3P/10
 Churilov G.N. CP-5P/41, CP-5P/30
 Córdoba-Camacho W. Y. CA2-7O/7
 Croitoru M. DP-7P/4

D

Dadoenkova N.N. CA1-3O/2
 Dadoenkova Yu.S. CA1-3O/2
 Danilov D.V. AA-1O/10
 Demytyev V. A. BP-1P/13
 Demidov V.V. BA-2O/9
 Dilmieva E. T. AA-1O/3, AA-1O/11
 Dimitrakopoulos G. DP-7P/4
 Doludenko I.M. BB-5O/7, BB-L/1, DP-8P/8, CP-5P/14
 Domozhirova A.N. CA2-7O/4
 Draganyuk O.N. BP-1P/3
 Drozdov B. V. AA-1O/11
 Dubas V.V. DP-8P/5
 Dudnikov V.A. BP-1P/1
 Dzedolik I.V. CA1-3O/4

E

Efremova M. DP-8P/3
 Efremova S.L. CB2-8O/5, CA1-3O/8, CA1-3O/7
 Ekomasov E.G. AA-1O/2
 Ekonomov N.A. DP-6P/7
 Elesina V.I. CP-5P/30
 Eliseev N.N. DP-7P/3, CA2-7O/3, CA2-7O/2
 Erager K.R. CP-5P/19
 Estevez O. DP-8P/3
 Evstigneeva S.A. CB1-4O/2

F

Fakhretdinov M.I. AA-1O/2
 Fedorenko A.A. CP-5P/18
 Fedorov A.S. CP-5P/3, CB1-8O/6
 Fedorov A.Yu. AP-4P/2
 Fedorov M. CB2-8O/1
 Fedorov S. AP-3P/7
 Fedorova N.A. BP-1P/39
 Fedorova A.A. CP-5P/3, CB1-8O/6
 Fenogenova V.V. CP-5P/9
 Fetisov L.Y. DP-6P/6, CP-5P/39
 Fetisov Y.K. DP-6P/7, DP-6P/6, CP-5P/39
 Filatov Ia.A. CB1-4O/3
 Filonenko E.M. CP-5P/42
 Fisenko A.A. CB2-8O/3
 Fitaev I.S. CP-5P/36
 Fomin L. BB-5O/7
 Fomin V.V. AB-6O/2
 Fongratovskiy S. V. AA-1O/11
 Fraerman A.A. C-L/3
 Fridman Yu.A. BP-1P/37, BP-1P/36, BP-1P/2

G

Gaifullin R.Yu. BP-1P/35
 Galeev R.M. BP-1P/35
 Galiev A.F. BP-1P/38
 Galiev R.R. AP-3P/6
 Gan'shina E.A. CP-5P/25
 Gaponov M.S. DP-6P/8, CB1-8O/5, AP-2P/11, AP-4P/3
 Gareeva Z.V. CB1-4O/1, AB-6O/1
 Gavrichkov V.A. CP-5P/27, B-L/2, AB-6O/3
 Gavrilkin S.Yu. BP-1P/16, BP-1P/13, AA-1O/8
 Gerevenkov P.I. CB1-4O/3
 Gervits N.E. DP-6P/5
 Gilimyanova A.R. CP-5P/14
 Gippius A.A. DP-6P/5, BP-1P/22, BP-1P/15, AA-1O/1
 Glazunova V.A. CP-5P/40
 Glezer A.M. CP-5P/4
 Glushenko G.A. CP-5P/41
 Golik L.L. CP-5P/25
 Golov A.V. CB1-8O/7, AP-4P/6
 Golovchan A.V. DP-6P/2, BP-1P/26, BP-1P/12
 Golovenchits E.I. DP-6P/1
 Golubev V.G. CA1-3L/2
 Gorbatoval A.V. DP-6P/12, AP-3P/6, AP-3P/3
 Gorbobanov A.I. DP-8P/5
 Gorokhovskiy A.V. BP-1P/33
 Gorshenkov M. BB-5O/4
 Gribanov I.F. BP-1P/12
 Gridnev S.A. DP-6P/3
 Grigoreva Z. DP-8P/3
 Gritsenko DP-8P/3

Gritsenko Ch. DP-6P/10
 Gritsenko Ch.A. CP-5P/22
 Gruner M.E. AA-1O/9
 Gubanov V.A. BA-2O/5
 Gunbin A.V. DP-6P/5, BP-1P/22, BP-1P/15
 Gurchenko V.S. CP-5P/44
 Gurov O.E. CB1-8O/7
 Guryanova V.R. AB-6O/2
 Gusev A.N. DP-8P/5
 Gusev N.A. BA-2O/3
 Gusev N.S. CA1-3L/2
 Gusev S.A. AP-3P/8, CP-5P/24
 Guskov A.A. DP-6P/12, AP-3P/6

H

Hamidi S. M. DA-L/3
 Harald Giessen A-L/2
 Herman I. V. AA-1O/11
 Huang J.C.A. CA2-7O/4
 Hämäläinen S.J. CB1-8O/8

I

Iagafarov Sh.Sh. BP-1P/33
 Ignatyeva D.O. CA1-3O/1, AP-3P/4, AP-4P/4
 Ilina T.S. AB-6O/4
 Ilyin N.A. DP-6P/8
 Ionin V.V. DP-7P/3, CA2-7O/3, CA2-7O/2
 Iorsh I.V. BB-O/2
 Ivanov B.A. BP-1P/36, AP-4P/5
 Ivanov M.S. DP-6P/12
 Ivanova D.A. BP-1P/39
 Ivanova O.S. DP-8P/14
 Ivanova T. BB-O/2

J

João V.V. AB-6O/6

K

Kabirov Yu.V. CP-5P/7
 Kachorovskii V.Yu. BP-1P/7
 Kalashnikov V.S. AA-1O/10
 Kalashnikova A.M. CB1-8O/8, CB1-4O/4, CB1-4O/3
 Kalganov D.A. DP-8P/7, BP-1P/31
 Kalimullina L.R. BP-1P/28
 Kalinin Yu.V. CP-5P/1
 Kalish A.N. AP-4P/7
 Kalyabin D.V. BA-2O/7, AP-2P/5
 Kamaeva L.V. BP-1P/9
 Kamantsev A. P. BP-1P/11, AA-1O/3, AA-1O/11
 Kaminskaya T.P. BP-1P/33
 Kaminskii V.V. BP-1P/31
 Kamynin A.V. AA-1O/11
 Kapralov P.O. BB-O/2, AP-4P/2
 Kaptelov E.Yu. DP-6P/4
 Karabassov T. CA2-7O/6
 Karamov D.D. BP-1P/38
 Karavainikov A.V. AP-3P/9, AP-3P/8
 Karki D. CA1-3O/1, AP-3P/4
 Karpukhin D. A. AA-1O/11
 Kartsev A.I. CP-5P/8
 Kashirin M.A. CP-5P/32, CP-5P/29
 Kasyanov A.A. CB2-8O/5, CA1-3O/7
 Kasyanov V. S. BP-1P/13
 Kazak N.V. BP-1P/16, AA-1O/8

| | | | |
|--|---|---|--|
| Kazenwadel D..... | CB1-8O/8 | Krizhanovskii D.N. | BB-O/2 |
| Kehagias T..... | DP-7P/4 | Krylova K.A..... | CP-5P/33, CP-5P/31 |
| Khaibullin R. | CP-5P/14, BB-L/1 | Kubasov I.V. | DP-6P/9, AB-6O/6, AB-6O/5, AB-6O/4 |
| Khannanov B.Kh. | DP-6P/1 | Kudryashov A.L..... | AP-3P/9, AP-3P/8 |
| Kharitonova O.G..... | CA1-3O/5 | Kulikov A.G..... | DP-7P/1 |
| Khizhn V..... | BP-1P/19 | Kulikova D.P..... | CP-5P/37, CB2-8O/5, CA1-3O/8, CA1-3O/7 |
| Khokhlov N.E..... | CB1-4O/3 | Kun'kova Z.E..... | CP-5P/25 |
| Khomskii D..... | AA-1O/5 | Kuntu D.V..... | CB1-4O/4 |
| Khramova A.E..... | AP-2P/2 | Kurenkov P. V. | AA-1O/11 |
| Khusyainov D.I..... | AP-2P/11 | Kurlyandskaya G.V..... | CP-5P/11, BB-5O/3, BB-O/1 |
| Khutueva A.B. | BA-2O/8 | Kuts V.V. | AB-6O/5 |
| Kichkailo A.S. | DP-8P/11 | Kuzmichev A.N. | DP-8P/6, CP-5P/18, CB2-8O/1 |
| Kimel A. V. | C-L/1 | Kuzmin D.A..... | CA1-3O/6, CA1-3O/5, CA1-3O/3, BP-1P/23 |
| Kirilenko D.A. | CB1-8O/8 | Kuznetsov D.D..... | AA-1O/10 |
| Kirillova V. M. | BP-1P/13 | Kuznetsova E.I..... | AA-1O/10 |
| Kirilyuk A..... | CB1-8O/6 | L | |
| Kiselev A.V. | DP-7P/3, CA2-7O/3, CA2-7O/2 | Lachenkov S. A..... | BP-1P/13 |
| Kiselev D.A. | AB-6O/4 | Lachinov A.A..... | BP-1P/38 |
| Kishine J. | AA-1O/2 | Lachinov A.N..... | CP-5P/21, BP-1P/38, BP-1P/28 |
| Kislyuk A.M. | AB-6O/6, AB-6O/5, AB-6O/4 DP-6P/9 | Laryukhin V. S..... | AA-1O/11 |
| Klevets Ph.N..... | DP-7P/2, BP-1P/37 | Lasek M.P..... | CP-5P/1 |
| Kliava J. | BP-1P/21 | Lavrov S.D.. DP-7P/5, CP-5P/35, CP-5P/6, AP-3P/6, AP-3P/3 | |
| Klimov A.A. | AP-2P/11 | Lebedeva E.D..... | CP-5P/35 |
| Klochnev A. M. | CP-5P/7 | Lega P.V. | CP-5P/8 |
| Knyazev Yu.V. | AA-1O/8 | Lehtinen J. S..... | CA2-7L/1 |
| Kobecki M. | AP-2P/2 | Lei Bi | CA1-3L/1 |
| Kobeleva S.P. | AB-6O/6 | Leontiev V.S. | AB-6O/5 |
| Kokenyesi S..... | CB2-8O/3 | <u>Levada E. V.</u> | DP-8P/3 |
| Koledov V.V..CP-5P/2, AA-1O/11, AA-1O/10, AA-1O/3 | | Levada E.V. | CB2-8O/4 |
| Kolesnikova V..... | BB-5O/4 | Levada K..... | DP-6P/10 |
| Kolesnikova V. | DP-6P/10 | LevshitsM.D..... | CB2-8O/3 |
| Kolesnikova V.G..... | CP-5P/22 | Levy M..... | CA1-3O/1, AP-3P/4 |
| Kolmychek I.A. | CA1-3L/2 | Lin C.-R. | DP-8P/14 |
| Kolosvetov A.A..... | AP-4P/1 | Linnik V.V. | AP-3P/8 |
| Kolyvanova M.A..... | CB2-8O/2 | Logunov M.V..... | CP-5P/3, CB1-8O/6 |
| Komleva E.V. | AA-1O/5 | Lomonosov A.M. | CB1-8O/7 |
| Komninou Ph..... | DP-7P/4 | Long J. | DP-6P/12 |
| Kononenko V.V..... | BP-1P/32, BP-1P/29 | Loshachenko A.S. | AA-1O/10 |
| Konshyn A.A. | CP-5P/15 | Lotin A.A..... | DP-7P/3, CA2-7O/3, CA2-7O/2 |
| Konstantinidis G. | DP-7P/4 | Lou1 Peiyang..... | DA-L/2 |
| Konstantinova T.E..... | CP-5P/40 | Lugovskoy N..... | BP-1P/40 |
| Koshev N. | CB2-8O/1 | Lukoyanov A.V..... | CA2-7O/4 |
| Koshevaya E.D..... | CB2-8O/2 | Lupitskaya Yu.A..... | CP-5P/42 |
| Koshkidko Yu.S..... | AA-1O/3 | Lushnikov S.G. | DP-6P/1 |
| Kosmachev O.A..... | BP-1P/36, BP-1P/2 | Lyaschenko S.A. | DP-8P/2, DP-8P/1 |
| Kostyrya S.A. | CP-5P/40 | Lyashko S.D..... | AP-3P/9, AP-3P/8 |
| Kotov L.N..... | CP-5P/28, CP-5P/26, CP-5P/20, CP-5P/1, CB1-8O/7, BA-2O/6, AP-2P/12, AP-4P/6 | Lyubutin I.S. | DP-7P/1, AA-1O/7 |
| Kotov V.A. | CP-5P/3 | Lyubutina M.V..... | DP-7P/1, AA-1O/7 |
| Kovalev K. L. | AA-1O/11 | M | |
| Kovalev O.E. | DP-6P/2, BP-1P/12 | Maccaferri Nicolòrea..... | C-L/2 |
| Kozacheck V.V..... | DP-7P/2 | Magnitskaya M.V. | BP-1P/9 |
| Kozak V.V..... | BP-1P/39 | Makagonov V.A..... | CP-5P/32, CP-5P/29 |
| Kozhaev M.A..CB1-4O/2, CA1-3O/1, BP-1P/6, AP-2P/2, AP-4P/7, AP-4P/2, AP-4P/1 | | Makarov P.A..... | CP-5P/26, CP-5P/20 |
| Krasnoborodko S.Yu. | AP-3P/10 | Makarova M.V..... | AP-2P/3 |
| Kravchenko Z.F..... | DP-6P/2 | Makhnev A.A..... | CA2-7O/4 |
| Kravtsov V..... | BB-O/2 | Maksimova E. | BP-1P/20 |
| Krichevsky D.M. | CB1-4O/2, AP-4P/4 | Maksimova I.K. | AP-2P/3 |
| Krinitsina T.P..... | AP-2P/3 | Maksimova L.A..... | BP-1P/33 |
| Krishtop V. | BB-5O/7 | Malakhovskii A.V..... | AB-6O/3 |
| Krivoshapkin P.V. | CB2-8O/2 | | |
| Krivoshapkina E.F..... | CB2-8O/2 | | |
| Krivtsova A.V..... | BP-1P/2 | | |

Malashenko T.I. BP-1P/25
 Malashenko V.V. BP-1P/25
 Malinetsky G. G. AA-10/11
 Malinkovich M.D. AB-6O/6, AB-6O/5, AB-6O/4
 Malinovich M. D. DP-6P/9
 Mamonov E.A. CA1-3L/2
 Marchenkov V.V. CA2-7O/4, AA-10/4
 Marchenkova E.B. CA2-7O/4, AA-10/4
 Markin Yu.V. CP-5P/25
 Mashirov A.V. BP-1P/26, BP-1P/12, BP-1P/11AA-10/10
 Matyunina M.V. BP-1P/4
 Matyunina Ya.Yu. BP-1P/2
 Maximova O.A. DP-8P/2
 Mazinov A.S. CP-5P/44, CP-5P/36
 Mednikov A.M. BA-2O/7
 Melnikov G.Yu. BB-O/1
 Menushenkov V.P. CP-5P/14
 Merenkov I.S. CP-5P/34, BB-5O/8
 Meshcheryakov A.A. BA-2O/7
 Mikhailova T.V. AP-3P/10, AP-3P/9, AP-3P/8
 Mikhalevsky V.A. DP-7P/3, CA2-7O/3, CA2-7O/2
 Mikhaylov V.I. DP-6P/2
 Mikheev A.V. DP-8P/8
 Milyaev M.A. AP-2P/3
 Milyukova E.T. AP-3P/8
 Miroshkina O.N. BP-1P/27, AA-10/9
 Mishina E.D. DP-8P/4
 Mitsiuk V.I. BP-1P/26, BP-1P/12, BP-1P/11
 Mizina D.R. CB2-8O/3
 Mogilenec Yu. DP-7P/1, BP-1P/21, BP-1P/20
 Moiseev N.V. CB1-8O/6
 Moiseeva T.N. CP-5P/40
 Molokeev M.S. AA-10/8
 Morozov E.V. CP-5P/2
 Morozov I.V. BP-1P/22
 Morozov V.N. CB2-8O/2
 Moryachkov R.V. DP-8P/11
 Moskvina A.S. BP-1P/22
 Motorzhina A.V. CB2-8O/4
 Mullagaliev I.N. DP-8P/10, DP-8P/9, CP-5P/43, CP-5P/13, CP-5P/12
 Murzaev R.T. CP-5P/31
 Murzina T.V. CA1-3L/2
 Musabirov I.I. BP-1P/35, BP-1P/11
 Mylukov R.R. CP-5P/33

N

Nauhatsky I. BP-1P/20
 Naumov S.V. CA2-7O/4
 Naumova L.I. AP-2P/3
 Nedopekin O.V. BP-1P/30
 Nedviga A.S. AP-3P/9, AP-3P/8
 Nemtcev I.V. DP-8P/1
 Nevzorova Y. A. DP-8P/3
 Nikitov S.A. CP-5P/3, CB1-8O/6, BA-2O/7, B-L/1, AP-2P/5, AP-2P/1
 Nikolaev N.S. CP-5P/41
 Nikolaev S.V. BP-1P/5, BP-1P/1
 Nikolaeva S.S. CP-5P/6
 Nirkov N.Yu. BP-1P/26
 Niyazov R.A. BP-1P/7, BP-1P/6
 Nizhelsky I. AA-10/11
 Nizyamova A.R. AB-6O/2
 Nosov L.S. AP-4P/6

Novikov V.B. CA1-3L/2

O

Omelyanchik A.S. DP-6P/10, DP-8P/13, CP-5P/22
 Orlov Yu.S. BP-1P/5, BP-1P/1
 Osmanov R.S. AP-4P/5
 Osmanov S.V. AP-3P/9, AP-3P/8
 Osokin K.S. CP-5P/15
 Ossadtchi A. CB2-8O/1
 Ostras M.I. DP-8P/6, CB2-8O/1
 Ovcharenko S.V. CB1-8O/5, AP-2P/11, AP-4P/3
 Ovchinnikov A.S. AA-10/2
 Ovchinnikov S.G. DP-8P/2, DP-8P/1, BP-1P/39, BP-1P/16, BP-1P/5, BP-1P/1, B-L/2, AB-6O/3, AA-10/8
 Ovsyannikov G.A. BA-2O/9
 Ozerov V.A. CB1-4O/2, AP-4P/4

P

Pakhomov A.S. CB1-4O/2, AP-4P/8
 Paladyan Yu. AP-3P/7
 Palchaev D. K. AA-10/11
 Pankov S.Yu. CP-5P/32, CP-5P/29
 Panov D.V. DP-8P/12
 Panov V.A. CP-5P/6
 Panova N.A. CP-5P/21
 Panyaev I.S. CA1-3O/2
 Parkhomenko Yu.N. DP-6P/9, AB-6O/6, AB-6O/5, AB-6O/4
 Parshin A.S. AP-3P/5
 Pasynkova A.A. CP-5P/11
 Paukov M.A. BP-1P/33
 Pavlukhina O.O. AA-10/12
 Pazniak A.I. CB2-8O/4
 Pelevin I.A. BP-1P/33
 Perevozchikova Yu.A. AA-10/4
 Perov N.S. CP-5P/4
 Pertsev N.A. CB1-8O/8
 Petrov A. O. AA-10/11
 Petrov D.A. AP-2P/9
 Petrov Yu. V. CP-5P/24
 Pimenov N.Y. CP-5P/35 DP-7P/5
 Pleshev D.A. BA-2O/6, AP-2P/12
 Podgornykh S.M. CA2-7O/4
 Pokatilov V.S. DP-6P/5
 Poltavets V. N. AA-10/11
 Polukeev S.I. B-L/2
 Polulyakh S.N. DP-8P/5, CB1-4O/2
 Polyakova P.V. CP-5P/10
 Popov I.I. DP-6P/3
 Preobrazhenski V.L. DP-6P/7
 Prilepsky D.Yu. BP-1P/18
 Pripechenkov I.M. CP-5P/25
 Proglyado V.V. AP-2P/3
 Pronin I.P. DP-6P/4, CP-5P/9
 Pronin V.P. DP-6P/4
 Prutsakova N.V. CP-5P/7
 Pschenichnikov S.E. CB2-8O/4
 Pugach N.G. BA-2O/3, AP-2P/10
 Pyatakov Alexander B-L/3

R

Radkevich A. CA2-7L/1
 Rodionov V. DP-6P/11
 Rodionova V. DP-6P/10, CP-5P/23, BB-5O/4

Rodionova V.V.....DP-8P/13, DP-8P/3, CP-5P/22, CB2-8O/4
 Romanova I.V.....BP-1P/30
 Romashkina A.M.....CA1-3L/2
 Rozanov K.N.....AP-2P/9
 Rukovishnikov A.....CP-5P/25
 Rumyantsev V.....AP-3P/7
 Rushforth A.W.....CB1-4O/4, CB1-4O/3
 Ryabukhin V.E.....DP-8P/4
 Ryltsev R.E.....BP-1P/10

S

S.M.Bhagat.....BB-O/1
 Sadovnikov A.V.....BA-2O/8, BA-2O/5, B-L/1
 Safarov I.M.....BP-1P/35
 Safin A.R.....CB1-8O/6, BA-2O/7, BA-2O/2, AP-2P/1
 Safina L.R.....CP-5P/31
 Safonchik M.O.....BA-2O/3
 Safonov A. A.....AA-1O/11
 Safonov S.S.....CP-5P/3, CB1-8O/6
 Salatov A.V.....CP-5P/37, CA1-3O/7, BB-5O/5
 Salikhov R.B...DP-8P/10, DP-8P/9, CP-5P/43, CP-5P/13, CP-5P/12
 Salikhov T.R.....DP-8P/10, CP-5P/43, CP-5P/13
 Samvelov A.V.....AA-1O/11
 Sanina V.A.....DP-6P/1
 Sannikov D.G.....CA1-3O/2
 Sanosyan A.A.....AA-1O/9
 Sapozhnikov M.V.....CP-5P/24, CA1-3L/2
 Sarmiento M. A.....CA2-7O/7
 Saunina S.I.....BP-1P/33
 Savchenko S.P.....AP-2P/8, AP-2P/7
 Savelyev D.V.....DP-6P/6
 Savochnik I.V.....AP-2P/2
 Schäfer R.....BP-1P/14
 Scherbakov A.V.....CB1-8O/8
 Sdobyrev V.V.....BP-1P/13
 Sedov E. A.....DP-7P/4
 Seleznev K.....BP-1P/20
 Seleznyov D.V.....AP-2P/10
 Seleznyova K.....BP-1P/21, BP-1P/20, DP-7P/1
 Semenov A. G.....CA2-7L/1
 Semiannikova A.A.....AA-1O/4
 Semuk E.Yu.....CP-5P/16, CB1-4O/2, AP-3P/8
 Senkevich S.V.....DP-6P/4
 Sergeeva O.N.....CP-5P/9
 Sgibnev E.M.....BB-5O/5, CP-5P/37
 Shaikhulov T.A.....BA-2O/9
 Shaginyan V.R.....CA2-7O/5
 Shalimova A.V.....CP-5P/4
 Shamsuvaleev R.I.....CP-5P/6
 Shandryuk G.A.....AA-1O/10
 Shanenko A. A.....DP-7P/4, CA2-7O/7
 Shaposhnikov A.N....CP-5P/18, AP-3P/10, AP-3P/9, AP-3P/8, AP-3P/4, AP-2P/2
 Sharofidinov Sh.Sh.....CP-5P/9
 Shavrov V.G.....CP-5P/2, CA1-3O/6, CA1-3O/5, CA1-3O/3, BP-1P/23, BP-1P/11, AP-2P/6, AA-1O/11, AA-1O/10, AA-1O/3
 Shcheglov V.I.....CB1-8O/7, BA-2O/6, AP-2P/12
 Shchugoreva I.A.....DP-8P/11
 Shelaev A.V.....CP-5P/37, BB-5O/5
 Shelukhin L.A.....CB1-8O/8, CB1-4O/4
 Shelyakov A.V.....CP-5P/5, BP-1P/8

Shelykh I.A.....BB-O/2
 Sheshukova S.E.....BA-2O/8
 Shevelkov A.V.....BP-1P/15
 Shilina P.V.....BB-O/2
 Shillo S. V.....AA-1O/11
 Shportenko A. S.....DP-6P/9
 Shreder E.I.....CA2-7O/4
 Shubin A.A.....BP-1P/39
 Shustova O.A.....CP-5P/9
 Sidorenko E.N.....CP-5P/7
 Sinitsyn V.E.....AA-1O/2
 Siryuk Yu.A.....BP-1P/32, BP-1P/29
 Sitnikov A.V.....CP-5P/1
 Sitnikov N.N.....CP-5P/5, BP-1P/8
 Sivachenko A.P.....BP-1P/12
 Skibinsky M.....BP-1P/19
 Skidchenko E.....CB2-8O/1
 Skirdkov P.N.....AP-4P/8
 Skorokhodov E.V.....AP-3P/8
 Snegirev N.I.....BP-1P/41, DP-7P/1, AA-1O/7
 Sobolev K.....DP-6P/10, CP-5P/23
 Sobolev K.V.....CB2-8O/4
 Sobolev N.A.....AB-6O/6
 Sokologorskiy.Y.Y.....CP-5P/6
 Sokolov A.E.....DP-8P/14, DP-8P/11
 Sokolovskiy V.V.....CP-5P/19, BP-1P/27, BP-1P/4, AA-1O/12, AA-1O/9
 Soldatov I.V.....BP-1P/14
 Solnyshkin A.V.....CP-5P/9
 Solonetsky R.V.....AB-6O/2
 Song Yujun.....DA-L/2
 Sozontov E.A.....BP-1P/24
 Spiridonova A.V.....BP-1P/30
 Spiridonova V.A.....DP-8P/11
 Stankevich K.V.....BA-2O/9
 Starchikov S.S.....AA-1O/7
 Staritsyn M.V.....DP-6P/4
 Stavrindis A.....DP-7P/4
 Stavrindis G.....DP-7P/4
 Stognii A.....CP-5P/3
 Stolyarov V. S.....CA2-7O/7
 Strelnikova I.E.....CB2-8O/3
 Streltsov S.V.....AA-1O/5, AA-1L/1
 Strugatsky M.B.....AA-1O/7, AA-1O/6 BP-1P/21, BP-1P/20, BP-1P/19, DP-7P/1, BP-1P/18
 Sukhorukova O.S.....AP-2P/6
 Sundeev R.V.....CP-5P/4
 Svalov A.V.....CP-5P/11, BB-O/1
 Svetlitskiy E.S.....DP-8P/14
 Sviachina D.S.....CB2-8O/3
 Svyrydova K.A.....CP-5P/40
 Sylgacheva D.A.....CB1-4O/2, AP-4P/7
 Syrov A.A.....CP-5P/16
 Sysoev M. A.....AA-1O/11

T

Taaev T.A.....BP-1P/14
 Tananaev P.N.....CP-5P/37, CB2-8O/5, CA1-3O/7, BB-5O/5
 Tarasenko A.S.....AP-2P/6
 Tarasenko S.V.....AP-2P/6
 Tarasenko T.N.....DP-6P/2
 Tarasov I.A.....DP-8P/1
 Tatarskiy D.A.....CP-5P/24

Temirov A.A.....AB-6O/4
 Temnaya O.S.....AP-2P/5
 Temnov V.V.....D-L/2,CB1-8O/7, CA1-3O/3, AP-4P/6
 Terentyev Yu.A. AA-1O/11
 Tereshina I.S.....BP-1P/33
 Tkachev A.V.....DP-6P/5, BP-1P/22, BP-1P/15, AA-1O/1
 Tkatch V.I.....CP-5P/40
 Tomashevich Ye.V. CP-5P/41
 Tomilin F.N.....BP-1P/39
 Tomilin S.V. CP-5P/17, CP-5P/16, CP-5P/15, AP-3P/2,
 AP-3P/1
 Tomilina O.A.....CP-5P/17, AP-3P/2
 Tretyachenko E.V. BP-1P/33
 Trushina D.B. DP-8P/8
 Tsvyashchenko A.V.....BP-1P/9
 Tulenin Yu.P.....DP-8P/12
 Turkov V.K.....CP-5P/20
 Turutin A.V. DP-6P/9, AB-6O/6, AB-6O/5, AB-6O/4
 Tyutyunik A.S. CP-5P/44

U

Urban V.V. CP-5P/28
 Useinov N. Kh. AP-2P/4
 Usik M.O. CA1-3O/6
 Ustinov V.V.....AP-2P/3
 Ustinov VladimirA-L/1
 Ustyugov V.A.....CP-5P/26, CP-5P/20
 Utkin A.A. CP-5P/28

V

Vagov A. CA2-7O/7
 Vakhitov R.M. AB-6O/2
 Valkov V.I. DP-6P/2, BP-1P/12
 van Dijken S. CB1-8O/8
 Varnakov S.N. DP-8P/2, DP-8P/1
 Varrla E. BB-5O/8
 Varyukhin V.N. BP-1P/25
 Vasenko A.S. CA2-7O/6
 Vasilev A.D. BP-1P/16
 Vasiliadis I. DP-7P/4
 Vasiliev A.L. DP-7P/1, BB-5O/6
 Vasiliev S.V.....CP-5P/40
 Vazquez M.....BB-5O/4
 Veligzhanin A.A.....CP-5P/4
 Velikanov D.A.....DP-8P/1, BP-1P/16, AA-1O/8
 Venu Gopal AchantaDA-L/1
 Verchenko V.Yu.....BP-1P/15
 Vetoshko P.M.....DP-8P/6, CP-5P/18, CB2-8O/1
 Vikulin D.V. AP-4P/2
 Vikulova M.A.....BP-1P/33
 Vilkov E. BB-5O/7
 Vlasenko V. A. BP-1P/13

Vlasov V.S.....CP-5P/26, CP-5P/20, CP-5P/1, BA-2O/6,
 AP-2P/12, AP-4P/6
 Vlasov. V.S.....CB1-8O/7
 Vnukova N.G.....CP-5P/41, CP-5P/30
 Volochaev M.N.....DP-8P/1
 Voronov A.A. CA1-3O/1, AP-3P/4
 Voroshnina A.A.....CP-5P/34
 Vysokikh Yu.E.....AP-3P/10
 Vysotina E.A.....BP-1P/8

W

Wang M. CB1-4O/3

Y

Yagovtsev V.O.....AP-2P/10
 Yagupov S. BP-1P/21, BP-1P/20, BP-1P/19
 Yagupov S.V.....DP-7P/1, AA-1O/7
 Yakovlev I.A.....DP-8P/1
 Yankovskii G.M.....CP-5P/37, BB-5O/5
 Yaroshenko F.A.....CP-5P/42
 Yarygina E.A. DP-7P/2, BP-1P/37
 Yavorsky M.A. AP-4P/2
 Yumashev V.V.....AA-1O/8
 Yusupov A.R.....CP-5P/21
 Yusupova N.R.....CP-5P/33

Z

Zabluda V.N. DP-8P/14, DP-8P/11
 Zagorskii D.L.....DP-8P/8
 Zagorskiy D. DP-8P/12,CP-5P/14, BB-5O/7, BB-L/1
 Zagrebin M.ABP-1P/4,BP-1P/27
 Zaikin A. D. CA2-7L/1
 Zakharyevich D.A.....BP-1P/33
 Zaletova I.A. CP-5P/5, BP-1P/8
 Zavialov V.V. DP-7P/4
 Zavornitsyn R.S. AP-2P/3
 Zaynullin F.A.....AP-3P/3
 Zhandun V.S. BP-1P/3
 Zhang Chang.....DA-L/2
 Zhigalina O. BB-L/1
 Zhilova O.V. CP-5P/32, CP-5P/29
 Zhu Xiaomin.....DA-L/2
 Zhukov R. N. DP-6P/9
 Zhukova E.....BB-5O/7
 Zhurenko S.V....DP-6P/5, BP-1P/22, BP-1P/15, AA-1O/1
 Zimenkova T. S.....AA-1O/11
 Zimnyakova P.E.....AP-3P/4
 Zinnatulina A.A. DP-8P/9
 Zolotov D.A.....DP-7P/1
 Zvezdin A.K. CB1-4O/1, AP-2P/2, AB-6O/1
 Zvezdin K.A. BA-2L/1, AP-4P/8

Notes