



**Samarkand International
Symposium on Magnetism**

2 – 6 July, 2023

Program

Samarkand State University named after Sharof Rashidov

Main Topics

Spintronics and Magnetotransport
Magnetophotonics (linear and nonlinear magneto-optics,
magnetophotonic crystals)
High Frequency Properties and Metamaterials
Diluted Magnetic Semiconductors and Oxides
Magnetic Nanostructures and Low Dimensional Magnetism
Magnetic Soft Matter (magnetic polymers, complex magnetic fluids and
suspensions)
Soft and Hard Magnetic Materials
Magnetic Shape-Memory Alloys and Magnetocaloric Effect
Multiferroics
Magnetism and Superconductivity
Theory
Magnetism in Biology and Medicine
Miscellaneous

Samarkand 2023

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Local Committee

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Technical Editors of Program

A. Granovskiy Yu. Alekhina L. Makarova
N. Perov A. Kharlamova

Scientific Program

Samarkand International Symposium on Magnetism was contributed by scientists from 17 countries. Total numbers of accepted contributions is 255.

Scientific agenda of the conference includes **8 plenary lectures** with a duration of **45 min**. Each conference session in the period from 2nd to 5th of July is subdivided into three parallel sections focused on one topic of interest in the field of magnetism each. Sections are composed of **Invited Talks (30 min** including discussion), **Invited Reports (15 min** including discussion) and **Oral Talks (15 min** including discussion). **Poster sessions** will take place on the 2nd and 3rd of July. The poster contributions should be presented on display from 11:30 till 20:00, with a scheduled session in the evening during which there will no other program in parallel.

The official language of SISM is English. It will be used for all printed material and presentations. No translation services will be provided.

Proceedings

Proceedings of the conference are planned to be published in *Journal of Magnetism and Magnetic Materials*, *Physics Of Metals And Metallography* and *Bulletin of the Russian Academy of Sciences: Physics*.

Conference Dinner and Cultural Program

We are pleased to welcome you to the Conference Dinner on 4th of July at Restaurant Samarkand (address: M. Koshgari, 54).

Guided tour to Bukhara is planned for the conference members on 6th of July. Bukhara is Islamic culture centers with more than 150 monuments of the middle ages included in the UNESCO World Heritage List.

Samarkand is a city with authentic architecture, and it offers its visitors numerous attractions withing the sity and in the surroundings. For further information, please, visit uzbekistan.travel/ web-page or ask the local organizer committee for arrangement.

Climate

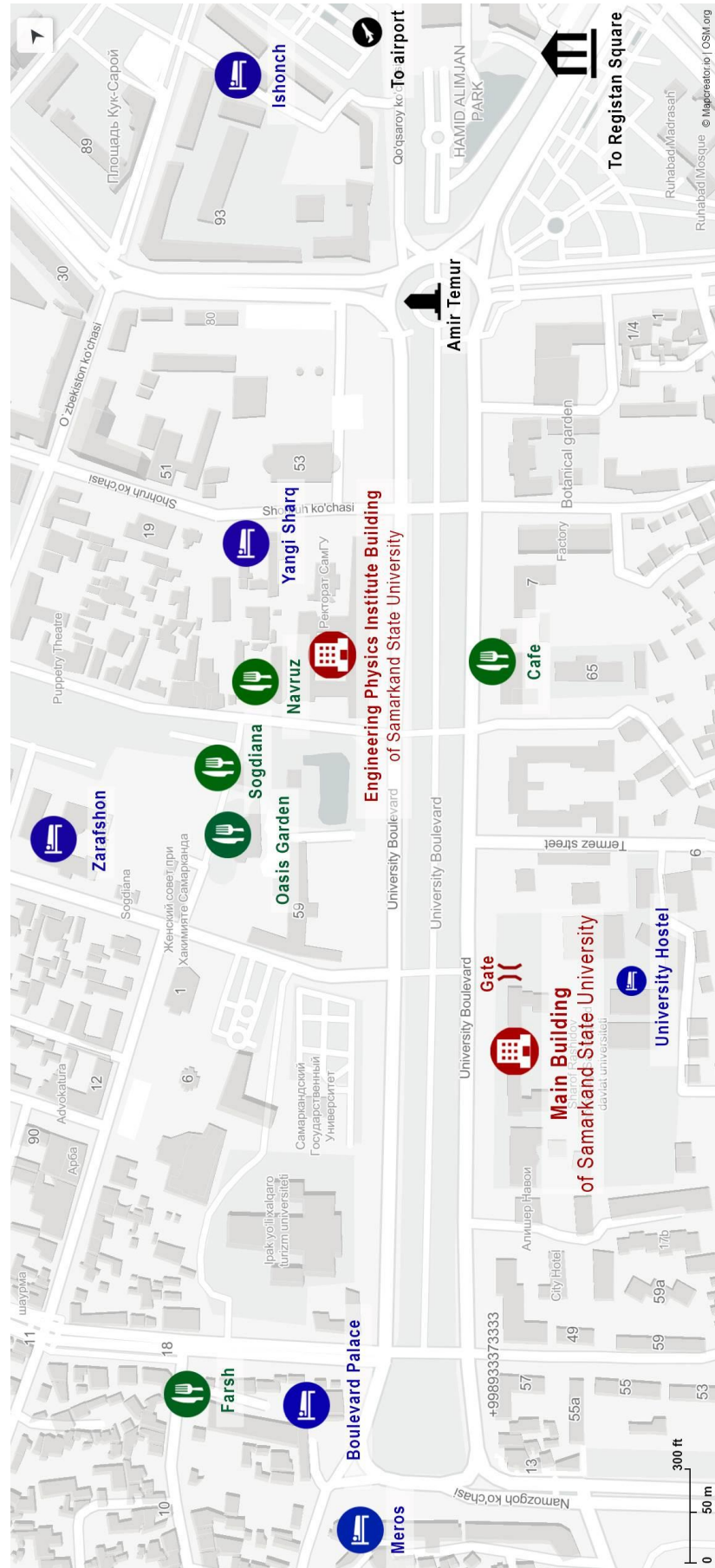
The temperature in July exceeds +30°C, and UV index in the afternoon reaches 9-10.

We extremely encourage our members to take care of personal sun and heat protection as well as to avoid long-lasting activity in the unshielded places in the middle of the day.

Venue

Samarkand is included in the UNESCO World Heritage List under the name “Samarkand – Crossroads of Cultures”. Samarkand State University is one of the oldest classical universities in Uzbekistan, known far beyond the country. Its history begins in the Timurid era, when on September 21, 1420, the great scholar Muhammad Havofi made a scientific report on the theory of Claudius Ptolemy before more than 100 listeners.

Map of the surroundings of Samarkand State University:



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CONFERENCE SCHEDULE**July 1 (Saturday)**

09:00 – 18:00	Registration (Engineering Physics Institute Building)
18:00 – 19:30	Welcome Party
20:00	Registan Square Light Show

July 2 (Sunday)

Assembly hall, Main building of Samarkand State University named after Sharof Rashidov

09:00 – 9:30	Opening ceremony
	Chairman: Nikolai PEROV
9:30 – 10:15	Plenary Talk (2PL-AH-1) Stuart S.P. PARKIN
10:15 – 11:00	Plenary Talk (2PL-AH-2) Aleksandra KALASHNIKOVA
11:00 – 11:45	Coffee break in the garden of Engineering Physics Institute Building

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section	Spintronics and Magnetotransport	Soft and Hard Magnetic Materials	Topological insulators
Time	Chairman: Sergey TARASENKO	Chairman: Alexander BARYSHEV	Chairman: Sergey STRELTSOV
11:45 – 12:15	(2IT-A-1) Xiaofeng JIN	(2IT-B-1) Arkady ZHUKOV	(2IT-C-1) Mikhail OTROKOV
12:15 – 12:45	(2IT-A-2) Javier CAMPO	(2IT-B-2) Larissa PANINA	(2IT-C-2) Arthur ERNST
12:45 – 13:00	(2OT-A-3) Nikolai CHECHENIN	(2OT-B-3) Nikolai BARANOV	(2OT-C-3) Alexander PAKHOMOV

13:00 - 16:00 Lunch time

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section	Magnetic Soft Matter (magnetic polymers, complex magnetic fluids and suspensions)	Heusler alloys and phase transitions	Theory
Time	Chairman: Sofia KANTOROVICH	Chairman: Victor KOLEDV	Chairman: Mikhail ZHURAVLEV
16:00 – 16:30	(2IT-A-4) Antonio Martins FIGUEIREDO NETO	(2IT-B-4) Vasily BUCHELNIKOV	(2IT-C-4) Sergey STRELTSOV
16:30 – 17:00	(2IT-A-5) Andrey ZUBAREV	(2IT-B-5) Pnina ARI-GUR	(2IT-C-5) Nikita AVERKIEV
17:00 – 17:15	(2IR-A-6) Aleksy S. IVANOV	(2OT-B-6) AdlerGAMZATOV	(2IT-C-6) Nikolai MELNIKOV
17:15 – 17:30	(2IR-A-7) Valeria RODIONOVA	(2IR-B-7) Mikhail ZAGREBIN	
17:30 – 17:45	(2IR-A-8) Ekaterina ELFIMOVA	(2OT-B-8) Aleksi KOMLEV	(2IR-C-7) Alexander NIKOLAEV
17:45 – 18:00	(2OT-A-9) Petr RYAPOLOV	(2IR-B-9) Vladimir KHOVAYLO	(2OT-C-8) Vladimir MANTSEVICH
18:00 – 18:15	(2OT-A-10) Aleksandra VINOGRADOVA	(2OT-B-10) Vladimir SHAVROV	(2OT-C-9) Ivan KOKURIN

18:15 – 20:00

Poster sessions and coffee break

Section	2PO-L1	Spintronics and Magnetotransport Chairman: Nikolai CHECHENIN
	2PO-L2	Soft and Hard Magnetic Materials Chairman:Valentiva ZHUKOVA
	2PO-L3	Magnetic Soft Matter + Magnetism in Biology and Medicine Chairman: Ekaterina ELFIMOVA
	2PO-L4	Magnetic Nanostructures and Low Dimensional Magnetism Chairman: Rodion MAKARIN

July 3 (Monday)

Hall A – Central Hall, Engineering Physics Institute Building

Chairman: Vladimir USTINOV

09:00 – 9:45 Plenary Talk (3PL-A-1) Sadamichi MAEKAWA

9:45 – 10:30 Plenary Talk (3PL-A-2) Claudio SANGREGORIO

10:30– 11:00 Coffee break

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section Time	Magnonics Chairman: Javier CAMPO	Magnetophotonics Chairman: Vladimir BELOTELOV	Magnetism and Super- conductivity Chairman: Natalia PUGACH
11:00 – 11:30	(3IT-A-1) Sergey NIKITOV	(3IT-B-1) Vasily TEMNOV	(3IT-C-1) Alexey USTINOV
11:30 – 12:00	(3IT-A-2) Tianyi ZHANG	(3IT-B-2) Victor PAVLOV	(3IT-C-2) Anatolie SIDORENKO
12:00 – 12:15	(3IR-A-3) Yury BUNKOV	(3OT-B-3) Dmitriy KUZMIN	(3IT-C-3) Carmine ATTANASIO
12:15 – 12:30	(3IR-A-4) Victor LALIENA	(3IR-B-4) Alexey YURASOV	
12:30 – 13:00	(3IT-A-5) Sake WANG		(3IT-C-4) Vikram TRIPATHI

12:30 - 16:00 Lunch time

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section	Spintronics and Magnetotransport	Magnetophotonics	Magnetism and Superconductivity
Time	Chairman: Alexander NIKOLAEV	Chairman: Victor PAVLOV	Chairman: Alexey USTINOV
16:00 – 16:30	(3IT-A-6) Mikhail ZHURAVLEV	(3IT-B-5) Vladimir BELOTELOV	(3IT-C-5) Nataliya PUGACH
16:30 – 17:00	(3IT-A-7) Maksim SAPOZHNIKOV	(3IT-B-6) Alexander BARYSHEV	(3IT-C-6) Sergio CAPRARA
17:00 – 17:15	(3IR-A-8) Vladimir RYLKOV	(3IR-B-7) Taichi GOTO	(3IR-C-7) Andrey KAMASHEV
17:15 – 17:30	(3OT-A-9) Ilya BONDAREV	(3OT-B-8) Dmitry MURZIN	(3OT-C-8) Tairzhan KARABASSOV
17:30 – 17:45	(3OT-A-10) Leonid SHELUKHIN	(3OT-B-9) Viktor BELYAEV	(3OT-C-9) Victor KOLEDOV
17:45 – 18:00	(3OT-A-11) Alexander TRUSHIN	(3OT-B-10) Pavel USACHEV	(3OT-C-10) Zafar KHUDAYBERDIEV

18:00 – 20:00

Poster sessions and coffee break

Section	3PO-L5	Magnetophotonics Chairman: Aleksey YURASOV
	3PO-L6	Magnetic Shape-Memory Alloys and Magnetocaloric Effect Chairman: Adler GAMZATOV
	3PO-L7	Magnetism and Superconductivity Chairman: Andrey KAMASHEV
	3PO-L8	Multiferroics Chairman: Leonid FETISOV
	3PO-L9	Diluted Magnetic Semiconductors and Oxides Chairman: Ivan KOKURIN
	3PO-L10	Magnetic materials. High Frequency Properties Chairman: Artem SHIRYAEV
	3PO-L11	Miscellaneous Chairman: Yuliya ALEKHINA

July 4 (Tuesday)

Hall A – Central Hall, Engineering Physics Institute Building

Chairman: Sergey NIKITOV

09:00 – 9:45 Plenary Talk (4PL-A-1) Vladimir USTINOV

9:45 – 10:30 Plenary Talk (4PL-A-2) Xiufeng HAN

10:30– 11:00 Coffee break

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section	Spintronics and Magnetotransport	Magnetic Nanostructures and Low Dimensional Magnetism	Magnetism in Biology and Medicine
Time	Chairman: Nikita AVERKIEV	Chairman: Rushana EREMINA	Chairman: Larissa PANINA
11:00 – 11:30	(4IT-A-1) Oleg TRETIAKOV	(4IT-B-1) Holger MEYERHEIM	(4IT-C-1) Katerina LEVADA
11:30 – 12:00	(4IT-A-2) Sergey TARASENKO	(4IT-B-2) Leandro SOCOLOVSKY	(4IT-C-2) Jing ZHONG
12:00 – 12:15	(4IR-A-3) Key YAMAMOTO	(4IR-B-3) Alexander PYATAKOV	(4IR-C-3) Maria BALASOIU
12:15 – 12:30	(4OT-A-4) Petr GEREVENKOV	(4OT-B-4) Dmitrii TAYURSKII	(4OT-C-4) Anton MUSIKHIN

12:30 - 16:00 Lunch time

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section Time	Magnetic Soft Matter (magnetic polymers, complex magnetic fluids and suspensions) Chairman: Andrey ZUBAREV	Magnetic Nanostructures and Low Dimensional Magnetism Chairman: Valeria RODIONOVA	Magnetic materials. High Frequency Properties Chairman: Vladimir KHOVAYLO
16:00 – 16:30	(4IT-A-5) Aleksey O. IVANOV	(4IT-B-5) Davide PEDDIS	(4IT-C-5) Anna SEMISALOVA
16:30 – 17:00	(4IT-A-6) Elena KRAMARENKO	(4IT-B-6) Rushana EREMINA	(4IT-C-6) Alexander OMELYANCHIK
17:00 – 17:15	(4IR-A-7) Sofia KANTOROVICH	(4OT-B-7) Artem SBOYCHAKOV	(4OT-C-7) Rodion MAKARIN
17:15 – 17:30	(4IR-A-8) Liudmila MAKAROVA	(4OT-B-8) Evgenia KOMLEVA	(4OT-C-8) Aleksey VOLEGOV
17:30 – 17:45	(4OT-A-9) Gennady STEPANOV	(4OT-B-9) Alexander OVCHINNIKOV	(4OT-C-9) Artem SHIRYAEV
17:45 – 18:00	(4OT-A-10) Constantine YERIN	(4OT-B-10) Alexey USHAKOV	(4OT-C-10) Tatiana DAMATOPULOU

18:30

Conference Dinner

July 5 (Wednesday)

Hall A – Central Hall, Engineering Physics Institute Building

Chairman: Sergey TARASENKO

09:00 – 9:45 Plenary Talk (5PL-A-1) Manuel VAZQUEZ

9:45 – 10:30 Plenary Talk (5PL-A-2) Nikolai MUSHNIKOV

10:30– 11:00 Coffee break

Location	Engineering Physics Institute Building			
	Hall A	Hall B	Hall C	Hall D
Section	Magnetic Nanostructures and Low Dimensional Magnetism	Magnetism and Super-conductivity	Multiferroics	Soft and Hard Magnetic Materials
Time	Chairman: Rushana EREMINA	Chairman: Anatolie SIDORENKO	Chairman: Alexander PYATAKOV	Chairman: Anna SEMISALOVA
11:00 – 11:15	(5IT-A-1) Vasili GLAZKOV	(5IT-B-1) Yurii PROSHIN	(5IT-C-1) Artur USEINOV	(5OT-D-1) Nadezhda KOSTYUCHENKO
11:15 – 11:30				(5OT-D-2) Nikolay PANKRATOV
11:30 – 11:45	(5OT-A-2) Sergey SOSIN	(5IT-B-2) Konstantin ARUTIUNOV	(5IT-C-2) Atsushi FUJIMORI	(5OT-D-3) Yuliya ALEKHINA
11:45 – 12:00	(5OT-A-3) Irina ROMANOVA			(5OT-D-4) Valentina ZHUKOVA
12:00 – 12:15	(5OT-A-4) Timur SHAIKHULOV	(5OT-B-3) Aleksandr BOBKOV	(5IT-C-3) Zukhra GAREEVA	(5OT-D-5) Valeria KOLESNIKOVA
12:15 – 12:30	(5OT-A-5) Natalia PEROVA	(5OT-B-4) Elvira IBRAGIMOVA		(5OT-D-6) Tatyana GOVORKOVA
12:30 – 12:45	(5OT-A-6) Maysara SALAKHITDINOVA	(5IR-B-5) Zlata PCHELKINA	(5OT-C-4) Ildus SHARAFULLIN	(5OT-D-7) Valentin TEDZHETOV
12:45-13:15		(5IT-B-6) Alexander SIGOV		

13:15 - 15:00

Lunch time

Location	Engineering Physics Institute Building		
	Hall A	Hall B	Hall C
Section Time	Miscellaneous Chairman: Oblakul KUVANDIKOV	Magnetism and Super- conductivity Chairman: Elvira IBRAGIMOVA	Multiferroics Chairman: Zukhra GAREEVA
15:00 – 15:15	(5OT-A-7) Yoldoshali ABDUGANIYEV	(5IT-B-7) Irina BOBKOVA	(5IT-C-5) Sergey GRIGORIEV
15:15 – 15:30	(5OT-A-8) Pavel PARCHINSKIY		
15:30 – 15:45	(5OT-A-9) Ilhomjon SUBKHANKULOV	(5IR-B-8) Vladimir ZHAKETOV	(5IT-C-6) Andrei ZENKEVICH
15:45 – 16:00	(5OT-A-10) Sobit KIRGIZOV	(5IR-B-9) Sergey SHITOV	
16:00 – 16:15	(5OT-A-11) Eshkuvvat ARZIKULOV	(5IR-B-10) Ludmila USPENSKAYA	(5OT-C-7) Elena NIKOLAEVA
16:15 – 16:30	(5OT-A-12) Nurullo ZIKRILLAEV	(5OT-B-11) Anastasiia YANOVSKAYA	(5OT-C-8) Dmitrii SAVELEV

 16:30 – 17:00 **Closing ceremony**

July 6 (Thursday)

 9:45 Tour to Bukhara

July 2, Sunday

9:00-9:30 **Opening Ceremony**

9:30-11:00 **Plenary Lectures**

Chairman: Nikolai PEROV

2PL-AH-1

9:30

CHIRAL SPINTRONICS

Parkin S.S.P.

2PL-AH-2

10:15

**ULTRAFAST OPTO-MAGNONICS IN THE CENTER
AND AT THE EDGE OF THE BRILLOUIN ZONE**

Kalashnikova A.M.

11:45-13:00 **Oral Sessions I**

Spintronics and Magnetotransport

Chairman: Sergey TARASENKO

2IT-A-1

11:45

**SPIN-TO-CHARGE CONVERSION IN Ag/Bi BILAYER
REVISITED**

Jin X.

2IT-A-2

12:15

**CHIRAL MAGNETS WITH DZYALOSHINSKII-MORIYA
INTERACTION**

Laliena V., Campo J.

2OT-A-3

12:45

**MAGNETIZATION DYNAMICS IN Co/IrMn и Co/FeMn
STRUCTURES**

Dzhan I.O., Chechenin N.G.

Soft and Hard Magnetic Materials

Chairman: Alexander BARYSHEV

2IT-B-1

11:45

**DEVELOPMENT OF AMORPHOUS MICROWIRWS WITH
GRADED MAGNETIC ANISOTROPY**

Zbukov A., Corte-Leon P., Blanco J. M., Ipatov M., and Zhukova V.

2IT-B-2
12:15

**MAGNETIZATION PROCESSES AND
MAGNETOIMPEDANCE IN LOW-CURIE TEMPERATURE
MICROWIRES**

Panina L.V., Alam J., Yudanov N.A., Nemirovich M., Morchenko A.T., Kostishin V.G.

2OT-B-3
12:45

**MAGNETIC STATES IN QUASI-TWO-DIMENSIONAL
Fe_yTi(S,Se)₂ INTERCALATION SYSTEMS**

Baranov N.V., Selezneva N.V., Sherokalova E.M.

Topological insulators

Chairman: Sergey STRELTSOV

2IT-C-1
11:45

**INTRINSIC MAGNETIC TOPOLOGICAL INSULATORS OF
THE MNBI₂TE₄ FAMILY**

Otrokov M.M.

2IT-C-2
12:15

DISORDER IN MAGNETIC TOPOLOGICAL INSULATORS

Ernst A.

2OT-C-3
12:45

**TEMPERATURE-RESOLVED SPIN-PUMPING IN
MnBi₂Te₄/NiFe HETEROSTRUCTURES**

Pakhomov A.S., Yurlov V.V., Skirdkov P.N., Chernov A.I., Zvezdin K.A.

16:00-18:15 Oral Sessions II

Magnetic Soft Matter (magnetic polymers, complex magnetic fluids and suspensions)

Chairman: Sofia KANTOROVICH

2IT-A-4
16:00

**NONLINEAR OPTICAL PROPERTIES OF MAGNETIC
NANOFLUIDS**

Figueiredo Neto A.M.

2IT-A-5
16:30

**DYNAMIC SUSCEPTIBILITY AND MAGNETIC
HYPERThERMIA IN A SYSTEM OF INTERACTING
FERROPARTICLES**

Zubarev A.Yu.

2IR-A-6
17:00

**INERTIAL FERROFLUID SENSORS:
PHYSICAL AND ENGINEERING ASPECTS**

Ivanov A.S., Somov S.A., Koskov M.A.

- 2IR-A-7
17:15
PVDF-BASED COMPOSITES FOR BIOMEDICAL APPLICATIONS: COMBINING THE INCREASED MAGNETOELECTRIC EFFECT AND BIOCOMPATIBILITY
Omel'yanchik A., Antipova V., Sobolev K., Kolesnikova V., Alekhina Yu., Makarova L., Rodionov V., Ershov P., Levada E., Rodionova V.
- 2IR-A-8
17:30
INFLUENCE OF FIELD AMPLITUDE AND DIPOLAR INTERACTIONS ON THE DYNAMIC RESPONSE OF IMMOBILIZED MAGNETIC NANOPARTICLES
El'fimova E.A., Ambarov A.V., Zverev V.S.
- 2OT-A-9
17:45
DYNAMICS OF COMPOSITE MAGNETIC FLUID SYSTEMS UNDER THE INFLUENCE OF A MAGNETIC FIELD
Ryapolov P.A., Sokolov E.A., Kaluzhnaya D.A., Shel'deshova E.V.
- 2OT-A-10
18:00
DEFORMATION OF A MAGNETIC FLUID DROPLET WITH AN IMMERSSED MAGNETIZABLE BODY UNDER UNIFORM MAGNETIC FIELDS
Sogomonyan K.L., Vinogradova A.S., Sharova O.A., Pelevina D.A., Naletova V.A.

Heusler Alloys and Phase Transitions

Chairman: Victor Koledov

- 2IT-B-4
16:00
***AB INITIO* INVESTIGATION THE PROPERTIES OF MN₂-BASED HEUSLER ALLOYS UNDER EXTERNAL PRESSURE**
Buchelnikov V.D., Sokolovskiy V.V., Zagrebin M.A., Baigutlin D.R.
- 2IT-B-5
16:30
UNDERSTANDING HEUSLER ALLOYS FOR MAGNETOCALORIC APPLICATIONS USING DIFFRACTION TECHNIQUES
Ari-Gur P., Madiligama A., Koledov V., Shavrov V.
- 2OT-B-6
17:00
COLLAPSE OF THE INVERSE MAGNETOCALORIC EFFECT IN HEUSLER ALLOYS IN CYCLIC MAGNETIC FIELDS
Gamzatov A.G., Batdalov A.B., Aliev A.M.
- 2IR-B-7
17:15
MAGNETIC PROPERTIES OF Fe₃(Al, Ga) ALLOYS: *AB INITIO* STUDY
Matyunina M.V., Zagrebin M.A., Sokolovskiy V.V., Buchelnikov V.D.
- 2OT-B-8
17:30
THE METAMAGNETIC PHASE TRANSITION EVOLUTION IN FeRh SYSTEM
Komlev A.S., Makarin R.A., Seleznev M.S., Vashchenkova A.R., Ilina T.S., Chirkova A.M., Kulesh N.A., Volegov A.S., Zverev V.I., Kiselev D.A., Perov N.S.
- 2IR-B-9
17:45
ELECTRONIC STRUCTURE AND MAGNETIC PROPERTIES OF Fe₂Cr_{0.5}Ti_{0.5}X (X = Al, Ga) HEUSLER ALLOYS
Murtazhin A.A., Inerbaev T.M., Bogach A.V., Abuova A., Seredina M.A., Chatterjee R., Khovaylo V.V.

2OT-B-10
18:00

**SEARCH FOR THE NEW APPROACHES TO NEW
GENERATION OF CRYOGENIC AND SUPERCONDUCTING
TECHNOLOGY BASED ON PHASE TRANSITIONS IN
MAGNETIC FIELDS**

*Shavrov V.G., Bychkov I.V., Koledov V.V., Kamantsev A.P., Karpukhin D.A., Kolesov K.A.,
Koshkid'ko Yu.S., Kuznetsov A.S., Kuzmin D.A., Mashirov A.V., Petrov A.O.,
Prokunin A.V., Suslov D.A., Taskaev S.V., Utarbekova M.V.*

Theory

Chairman: Mikhail ZHURAVLEV

2IT-C-4
16:00

**THE JAHN-TELLER EFFECT IN CASE HEAVY
TRANSITION METAL IONS**

Streltsov S.V., Temnikov F., Kugel K.I., Khomskii D.I.

2IT-C-5
16:30

**OVERHAUSER EFFECT AND SOLID EFFECT IN As- AND P-
DOPED SILICON IN STRONG MAGNETIC FIELDS AND
LOW TEMPERATURES**

Grabar V.A., Lifshits M.B., Averkiev N.S.

2IT-C-6
17:00

**MAGNETIC SUSCEPTIBILITY AND SHORT-RANGE ORDER
IN METALS ABOVE THE CURIE TEMPERATURE: A DSFT
STUDY**

Melnikov N.B., Gulenko A.S., Reser B.I.

2IR-C-7
17:30

**MAGNETIC PROPERTIES OF BROADENED LANDAU
LEVELS AT THE SADDLE POINT ENERGY OF TWO
DIMENSIONAL LATTICE**

Nikolaev A.V., Zhuravlev M.Ye.

2OT-C-8
17:45

**EFFECTIVE SPIN FILTERING IN CORRELATED
SEMICONDUCTOR NANOSTRUCTURES**

Mantsevich V.N., Maslova N.S., Frolov D.S., Rozhansky I.V., Averkiev N.S.

2OT-C-9
18:00

**A TOY MODEL OF INDIRECT EXCHANGE INTERACTION
IN DILUTED MAGNETIC SEMICONDUCTORS BEING IN
INSULATING PHASE**

Kokurin I.A., Averkiev N.S.

18:15-20:00 **Poster Sessions**

Spintronics, magnonics, magnetotransport

Chairman: Nikolai CHECHENIN

2PO-L1-1

**EQUIVALENT MODEL OF A FERRIMAGNET FOR
MICROMAGNETIC SIMULATION**

*Bazrov M.A., Antonov V.A., Namsaraev Zh.Zh., Letushev M.E., Ognev A.V.,
Samardak A.S., Steblyy M.E.*

- 2PO-L1-2 **SUBSTRATE INFLUENCE ON TERAHERTZ GENERATION IN FeCo THIN FILMS**
Bezykonnyy N., Buryakov A., Avdeev P., Tiercelin N., Mishina E., Preobrazhensky V.
- 2PO-L1-3 **DYNAMICS OF MAGNETIC VORTICES IN A SPIN-TRANSFER NANOOSCILLATOR**
Filippova V.V., Antonov G.I., Zvezdin K.A., Ekomasov E.G.,
- 2PO-L1-4 **MICROWAVE SPIN-PUMPING FROM AN ANTIFERROMAGNET FeBO₃**
Gabrielyan D.A., Volkov D.A., Safin A.R., Kabyabin D.V., Strugatsky M.B., Nikitov S.A.
- 2PO-L1-5 **ELECTRIC-FIELD CONTROLLED SPINTRONIC THz EMITTER BASED ON A TWO-DIMENSIONAL SEMICONDUCTOR**
Gorbatova A.V., Buryakov A.M., Avdeev P.Yu., Lebedeva E.D., Sapozhnikov M.V., Pashenkin I.Y., Mishina E.D.
- 2PO-L1-6 **VOLTAGE-CONTROLLED TOPOLOGICAL TRANSITIONS OF SPIN WAVES IN MAGNONIC CRYSTAL/PZT STRUCTURE**
Grachev A.A., Gorlach M.A., Beginin E.N., Sadovnikov A.V.
- 2PO-L1-7 **SPIN CURRENT AT THE INTERFACE OF La_{0.7}Sr_{0.3}Mn₃ EPITAXIAL FILM AND TbCo₂FeCo NANOSTRUCTURE**
Klimov A., Volkov D., Gabrielyan D., Tiercelin N., Kabyabin D., Safin A., Nikitov S.
- 2PO-L1-8 **MAGNETIC AND STRUCTURAL PROPERTIES OF Pd(111)/Co/Pd AND Pd(100)/Co/Pd THIN FILMS**
Kuznetsova M.A., Kozlov A.G.
- 2PO-L1-9 **DEVELOPMENT AND TESTING OF A MAGNETIC TUNNEL JUNCTION COMPACT MODEL IN VERILOG-A TO USE IN CAD SYSTEM**
Lobkova M.D., Skirdkov P.N., Zvezdin K.A.
- 2PO-L1-10 **EVOLUTION OF THE SKYRMION LATTICE IN MnGe-BASED COMPOUNDS UNDER HIGH PRESSURE**
Skanchenko D.O., Altynbaev E.V., Heinemann A., Martin N., Grigoriev S., Tsyaschenko A.
- 2PO-L1-11 **BROADBAND RECTIFICATION EFFECT IN SPIN-TORQUE DIODES**
Skirdkov P.N., Kichin G.A., Zvezdin K.A.
- 2PO-L1-12 **EXCHANGE BIAS IN Pd/Co/CoO FILMS WITH DIFFERENT Co OXIDATION TIMES AND THE NUMBER OF REPETITIONS OF [Pd/Co/CoO]_n BILAYERS**
Tarasov E.V., Tkachenko I.A., Kozlov A.G.
- 2PO-L1-13 **MUTUALLY SYNCHRONIZED SPIN HALL NANO-OSCILLATORS BY A COMMON CURRENT**
Tsyulnikova L.A., Safin A.R.

- 2PO-L1-14 **MAGNETOTRANSPORT AND ELECTRICAL PROPERTIES OF COBALT MONOCRYSTAL AT LOW TEMPERATURES**
Kuvandikov O.K., Usarov U.T.
- 2PO-L1-15 **SPIN-POLARIZED CONDUCTANCE IN MAGNETIC TUNNEL JUNCTION WITH MULTIFERROIC BiFeO₃**
Useinov N.Kb., A.N.Useinov
- 2PO-L1-16 **APPEARANCE OF UNIDIRECTIONAL ANISOTROPY IN THE HETEROSTRUCTURE SrMnO₃/La_{0.7}Sr_{0.3}MnO₃ AT ROOM TEMPERATURE**
Shaikbulov T.A., Temiryazeva M.P., Sizov V.E., Demidov V.V., Matveev A.A., Volkov D.A., Tlegenov R., Safin A.R., Logunov M.V., Kabyabin D.V., Nikitov S.A.
- 2PO-L1-17 **ORTHOGONAL MAGNETIC STRUCTURES OF Fe₅O₆: REPRESENTATION ANALYSIS AND DFT CALCULATIONS**
Zhandun V.S., Kazak N.V.
- 2PO-L1-18 **LINEAR MAGNETORESISTANCE IN (Bi_{1-x}Eu_x)₂Se₃ TOPOLOGICAL INSULATOR**
Aronzon B.A., Mekhiya A.B., Oveshnikov L.N., Davydov A.B., Prudkoglyad V.A., Rodionov Ya.I., Kugel K.I., Selivanov Yu.G.
- 2PO-L1-19 **ELASTICITY OF THE CHIRAL SOLITON LATTICE IN Cr_{1/3}NbS₂**
Tereshchenko A.A., Ovchinnikov A.S., Sinitsyn V.I.E., Bostrem I.G.
- 2PO-L1-20 **NONLINEAR FREQUENCY SHIFT OF THE MAGNETIZATION PRECESSION IN THIN MAGNETIC FILMS UNDER THE ACTION OF SPIN-POLARIZED CURRENT IN THE PRESENCE OF AN EXTERNAL MAGNETIC FIELD**
Matveev A.A., Safin A.R., Nikitov S.A.

Soft and Hard Magnetic Materials

Chairman: Valentina ZHUKOVA

- 2PO-L2-1 **INFLUENCE OF SYNTHESIS CONDITIONS ON MICROWAVE PROPERTIES OF FINE IRON POWDERS OBTAINED VIA ULTRASONIC SPRAY-PYROLYSIS**
Artemova A.V., Maklakov S.S., Shiryaev A.O., Osipov A.V., Komarov I.V., Petrov D.A., Rozanov K.N., Lagarkov A.N.
- 2PO-L2-2 **PERMANENT MAGNET UNDULATORS FOR SYNCHROTRON RADIATION FACILITY**
Kilmetova I.V., Kulevoy T.V., Skachkov V.S., Sergeeva O.S.

- 2PO-L2-3 **AMORPHIZATION OF THIN SUPERMALLOY FILMS
Ni₇₉Fe₁₇Mo₄ WITH OXYGEN DURING MAGNETRON
SPUTTERING**
*Maklakov S.S., Naboko A.S., Maklakov S.A., Bobrovskii S.Y., Polozov V.I.,
Zezlyulina P.A., Osipov A.V., Ryzhikov I.A., Rozanov K.N., Filimonov D.F., Pokholok K.V.,
Lagarkov A.N.*
- 2PO-L2-4 **ADDITIVE MANUFACTURING OF R-Fe-B TYPE
PERMANENT MAGNETS**
Maltseva V., Urzhumtsev A., Andreev S., Volegov A.
- 2PO-L2-5 **CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF
Fe_{0.25}TaSe₂**
Nosova N.M., Volegov A.S., Selezneva N.V., Baranov N.V.
- 2PO-L2-6 **FABRICATION AND MAGNETIC CHARACTERIZATION OF
3D PRINTED COMPOSITES FROM FERRITE PARTICLES
AND POLY(LACTIC ACID) POLYMER**
*Amirov A., Omelyanchik A., Murzin D., Kolesnikova V., Vorontsov S., Musov I., Musov Kh.,
Khashirova S., Rodionova V.*
- 2PO-L2-7 **MAGNETIC PROPERTIES OF SUBSTITUTED FERRITES
BASED ON Ni, Zn AND Co**
Perov N.S., Shipkova E.D., Vinnik D.A., Sberstyuk D.P.
- 2PO-L2-8 **INFLUENCE OF LOAD ANNEALING ON MAGNETIC
PROPERTIES AND STRUCTURE OF Fe_{68.5}Cr₅Si_{13.5}B₉Nb₃Cu₁
NANOCRYSTALLINE RIBBONS**
Kharlamova A.M., Kozhevnikova P.Y., Kaminskaya T.P., Larrañaga A., Kurlyandskaya G.V.
- 2PO-L2-9 **AMORPHOUS RIBBONS FOR EPOXYCOMPOSITE
DETECTION**
Pasynkova A.A., Timofeeva A.V., Mel'nikov G.Yu., Lukshina V.A., Kurlyandskaya G.V.
- 2PO-L2-10 **MAGNETISATION REVERSAL PROCESSES IN
PERMAMENT MAGNETS Nd-Fe-B AND Sm(Co, Fe, Zr, Cu)_z
TYPE**
Urzhumtsev A.N., Maltseva V.E., Volegov A.S.
- 2PO-L2-11 **TRANSPORT PHENOMENA OF CRYSTALLINE AND
AMORPHOUS ALLOYS OF TRANSITION METALS**
Imamnazarov D.H.
- 2PO-L2-12 **MAGNETIC PROPERTIES OF ALLOYS OF THE SYSTEM
Fe_{85-x}Cr_xB₁₅ (x=8÷15) IN AMORPHOUS AND LIQUID STATES**
Kuvandikov O.K., Usarov U.T., Suleimanov O.A., Usanov Sh.
- 2PO-L2-13 **MAGNETIC PROPERTIES AND HALL EFFECT OF
COMPENSATED FERRIMAGNET Mn_{1.5}Co_{0.75}V_{0.75}Al**
*Seredina M.A., Bogach A.V., Gorshenkov M.V., Karpenkov D.Yu., Kolesnikov E.A., Taskaev
S.V., Khovaylo V.V.*

- 2PO-L2-14 **NON-COLLINEAR PHASE IN RARE EARTH FERRITE
GARNET FILMS AT THE COMPENSATION POINT**
*Suslov D.A., Vetoshko V.V., Mashirov A.V., Taskaev S.V., Poluhayeb S.N.,
Berzhansky V.N., Shavrov V.G.*
- 2PO-L2-15 **HIGH COERCIVITY AND EXCHANGE BIAS EFFECT IN
Fe₂CrSe₄**
*Selezneva N.V., Komarova V.A., Mozgonykh S.N., Sherokalova E.M.,
Volegov A.S., Baranov N.V.*

Magnetic Soft Matter + Magnetism in Biology and Medicine

Chairman: Ekaterina ELFIMOVA

- 2PO-L3-1 **ELASTOMERS FILLED WITH ANISOTROPIC SHAPED
PARTICLES**
Aleksandrov I.A., Dobroserdova A.B., Kantorovich S.S.
- 2PO-L3-2 **MATHEMATICAL MODEL OF MAGNETICALLY ACTIVE
ELASTOMER DEFORMATION**
Ienator A.A., Stolbov O.V., Rodionova V.V.
- 2PO-L3-3 **SIMULATION OF FIELD-CONTROLLED MASS
TRANSPORT IN MAGNETIC NANOENSEMBLES**
Kuznetsov A.A., Zverev V.S., Kantorovich S.S.
- 2PO-L3-4 **MORPHOLOGICAL SIGNATURE IN MAGNETIC AND
HYDRODYNAMIC RESPONSE OF A MAGNETIC
NANOGELS' SUSPENSION**
Novikau I.S., Kantorovich S.S.
- 2PO-L3-5 **LEVITATION OF A SPHERICAL MAGNET IN A MAGNETIC
FLUID DROP ON A HORIZONTAL PLANE**
Pelevina D.A., Sharova O.A., Turkov V.A., Naletova V.A.
- 2PO-L3-6 **THEORETICAL STUDY OF THE PROPERTIES OF
POLYDISPERSE MAGNETOPOLYMER COMPOSITES WITH
AN ANISOTROPIC ORIENTATIONAL STRUCTURE OF THE
MAGNETIC FILLER**
Radushnov D.I., Solovyova A.Yu., Elfimova E.A.
- 2PO-L3-7 **LINEAR AND CUBIC MAGNETIC SUSCEPTIBILITY OF
CONCENTRATED FERROFLUID IN AC FIELD OF
ARBITRARY AMPLITUDE**
Rusanov M.S., Elfimova E.A., Zverev V.S.
- 2PO-L3-8 **ORIENTATION TEXTURING OF SMALL MULTI-CORE
PARTICLE**
Solovyova A.Yu., Sokolsky S.A., Elfimova E.A., Ivanov A.O.

- 2PO-L3-9 **DYNAMICAL PROPERTIES OF AN ENSEMBLE OF CORRELATING ELLIPSOID-SHAPED MAGNETIC NANOPARTICLES IN A LIQUID CARRIER**
Zverev V., Pyanzina E., Novak E., Kantorovich S.
- 2PO-L3-10 **STAR-SHAPED Au@Fe₃O₄ NANOPARTICLES FOR BIOMEDICAL APPLICATIONS**
Pshenichnikov S.E., Motorzhina A.V., Anikin A.A., Belyaev V.K., Albino M., Panina L.V., Rodionova V.V., Sangregorio C., Levada K.V.

Magnetic Nanostructures and Low Dimensional Magnetism

Chairman: Rodion MAKARIN

- 2PO-L4-1 **CLUSTER STRUCTURE OF (FeCoZr)_x(MgF₂)_{100-x} NANOCOMPOSITES BY GISAXS**
Baulin R.A., Pripechenkov I.M., Ganshina E.A., Andreeva M.A., Sitnikov A.V.
- 2PO-L4-2 **EXCHANGE-COUPLED SULFUR AND MANGANESE COMPLEXES IN SILICON**
Askarov S., Sharipov B., Marlyanov A., Saliyeva Sh., Ibragimova B.
- 2PO-L4-3 **DISCRETE MAGNETIC BREATHERS IN MONOAXIAL CHIRAL HELIMAGNET**
Bostrem I.G., Ovchinnikov A.S., Sinitsyn V.E., Ekomasov E.G.
- 2PO-L4-4 **DISCRETE BREATHERS IN LINEAR CHAIN OF MAGNETIC NANOPARTICLES**
Kuzmin D.A., Ekomasov E.G., Bychkov I.V., Shavrov V.G.
- 2PO-L4-5 **MAGNETISM OF LUDWIGITES Mn_{1.17}Co_{1.83}BO₅ and Mn_{1.39}Co_{1.61}BO₅**
Eremina R.M., Popov D.V., Batulin R.G., Cherosov M.A., Moshkina E.M.
- 2PO-L4-6 **MAGNETIC HYSTERESIS IN PERMALLOY BASED 1D MAGNETOPLASMONIC CRYSTAL**
Gritsenko Ch.A., Mitrofanov T., Kolesnikova V.G., Murzin D.V., Belyaev V.K., Rodionova V.V.
- 2PO-L4-7 **HELIMAGNETIC AND CRYSTALLOGRAPHIC GROWTH TEXTURES OF DYSPROSIUM NANOLAYER ON β-Ta, Nb AND CoFe BUFFER LAYERS**
Naumova L.I., Krinitsina T.P., Zavnitsyn R.S., Milyaev M.A., Devyaterikov D.I., Rusalina A.S., Pavlova A.Y., Proghyado V.V., Ustinov V.V.
- 2PO-L4-8 **SPIN GLASS PHASE TRANSITIONS IN LaSrCo_{1/2}Fe_{1/2}O₄**
Mazitova D.I., Batulin R.G., Yatsyk I.V., Chupakhina T.I., Deeva Yu.A., Levchenko S.V.
- 2PO-L4-9 **COMPARATIVE STUDY OF FeNi/Cu-BASED MAGNETOIMPEDANCE LAYERED ELEMENTS WITH DIFFERENT GEOMETRY OF THE UPPER MULTILAYER**
Melnikov G.Yu., Svalov A.V., Buznikov N.A., Lepalovskij V.N., Kurlyandskaya G.V.

- 2PO-L4-10 **CRYSTAL STRUCTURE AND EXCHANGE BIAS IN
POLYCRYSTALLINE FILMS WITH ANTIFERROMAGNETIC
Cr-Mn**
*Moskalev M.E., Feshchenko A.A., Kravtsov E.A., Kudryukov E.V., Lepalovskij V.N.,
Vas'kovskij V.O.*
- 2PO-L4-11 **NONTHERMAL PHOTOINDUCED REDUCTION OF THE
COERCIVITY IN THIN EPITAXIAL FILMS OF THE L1₀-
PHASE FePt AND FePt_{0.84}Rh_{0.16}**
Petrov A.V., Nikitin S.I., Tagirov L.R., Kamzin A.S., Yusupov R.V.
- 2PO-L4-12 **MAGNETIZATION, TRANSPORT AND ESR PROPERTIES
OF Sr₂MnNbO₆ DOUBLE PEROVSKITES**
Popov D.V., Batulin R.G., Yatsyk I.V., Eremina R.M.
- 2PO-L4-13 **COULOMB TWO-CENTER INTEGRALS AND THEIR
COMBINATIONS IN CRYSTAL FIELD THEORY FOR RARE
EARTH COMPOUNDS**
Popov D.V., Eremina R.M., Likerov R.F., Shafikova A.E.
- 2PO-L4-14 **MAGNETORESISTANCE OF CoFe NANOWIRES AND
NANOCOILS**
*Rogachev K.A., Samardak A.Yu., Sobirov M.I., Namsaraev Zh.Zh., Jeon Y.S., Jeong E.,
Samardak A.S., Ognev A.V., Kim Y.K.*
- 2PO-L4-15 **THE SYNTHESIS AND MAGNETIC NATURE OF
MANGANESE-SUBSTITUTED COBALT FERRITE
NANOPARTICLES**
Salnikov V., Omelyanchik A., Rodionova V.
- 2PO-L4-16 **SIMULATION OF THE MAGNETIZATION SWITCHING IN
Fe/Au BARCODE NANOWIRES**
*Samardak A.Yu., Jeon Y.S., Kozlov A.G., Ognev A.V., Jeong E., Kim G.W., Ko M.J.,
Samardak A.S., Kim Y.K.*
- 2PO-L4-17 **UHV TECHNOLOGICAL SYSTEM FOR SYNTHESIS AND IN
SITU INVESTIGATION OF NANOSTRUCTURES BY
SPECTRAL MAGNETO-OPTICAL ELLIPSOMETRY IN A
WIDE TEMPERATURE RANGE**
Shevtsov D.V., Ljaschenko S.A., Varnakov S.N., Ovchinnikov S.G., Maximova O.A.
- 2PO-L4-18 **SKYRMIONS AND SKYRMION LATTICES IN EPITAXIAL
[Pd/Co/CoO]_n MULTILAYERS**
Shatilov V.S., Ognev A.V., Samardak A.S., Kozlov A.G.
- 2PO-L4-19 **NUMERICAL SIMULATION OF THE BREATHERS
SOLUTIONS IN LAYERED CHROMIUM
DICHALCOGENIDE**
Sinitsyn V.I.E., Ovchinnikov A.S., Bostrem I.G., Ekomasov E.G.
- 2PO-L4-20 **SHAPE-DRIVEN MAGNETIC PROPERTIES OF JELLYFISH-
LIKE Ni NANOWIRES**
Samardak A.Yu., Sobirov M.I., Ognev N.A., Leiko G.A., Samardak A.S., Ognev A.V.

- 2PO-L4-21 **EXPERIMENTAL AND THEORETICAL STUDY OF THE
CATION AND MAGNETIC ORDERING IN $\text{Ni}_x\text{Co}_{3-x}\text{B}_2\text{O}_6$**
Sofronova S., Pavlovskii M., Chernyshov A., Moshkina E., Velikanov D.
- 2PO-L4-22 **STRUCTURAL AND MAGNETIC PROPERTIES OF THIN
Co/Pt FILMS**
Tatarskiy D.A., Gusev N.S., Ermolaeva O.L., Orlova A.N., Mironov V.L., Gusev S.A.
- 2PO-L4-23 **MAGNETIZATION CURVES OF 2D IRON NANOWIRES
ARRAY**
*Zagorskiy D.L., Semenov S.V., Komogortsev S.V., Doludenko I.M., Balaev D.A.,
Panina L.V.*
- 2PO-L4-24 **SPIN POLARIZED EFFECTS IN SILICON NANOTUBES**
Mukhtarov A.P.
- 2PO-L4-25 **STRUCTURE AND STABLE STATE OF MAGNETIC
VORTEX-LIKE INHOMOGENETIES IN MODULATED
ULTRATHIN MAGNETIC FILMS**
Vakhitov R.M., Solonetsky R.V., Akhmetova A.A., Filippov M.A.
- 2PO-L4-26 **PARAMAGNETIC AND FERROMAGNETIC CENTERS OF
MANGANESE IN SILICON**
Askarov S., Sharipov B., Mavlyanov A., Saliyeva Sh., Shukurova D., Mavlonov A.

July 3, Monday

9:00-10:30 **Plenary Lectures**

Chairman: Vladimir USTINOV

- 3PL-A-1 **HYDRODYNAMIC SPINTRONICS AND CURRENT VORTEX**
 9:00 *Maekawa S.*
- 3PL-A-2 **TUNING THE PROPERTIES OF SPINEL FERRITE
 NANOPARTICLES BY COLLOIDAL CHEMISTRY**
 9:45 *Sangregorio C.*

11:00-13:00 **Oral Sessions I**

Magnonics

Chairman: Javier CAMPO

- 3IT-A-1 **FERRONS VS "FERRONS"**
 11:00 *Nikitov S.A.*
- 3IT-A-2 **FULL QUANTUM THEORY FOR MAGNON TRANSPORT IN
 TWO-SUBLATTICE MAGNETIC INSULATORS AND
 MAGNON JUNCTIONS**
 11:30 *Zhang T., Han X. F.*
- 3IR-A-3 **DIRECT OBSERVATION OF MAGNON BEC IN YIG FILM
 BY FARADAY ROTATION**
 12:00 *Bunkov Yu.M., Belotelov V.I., Knyazev G.A., Kuzmichev A.N., Petrov P.E., Savochkin I.V.,
 Vetoshko P.M.*
- 3IR-A-4 **SCATTERING OF SPIN WAVES BY ONE-DIMENSIONAL
 SOLITONS**
 12:15 *Laliena V., Campo J.*
- 3IT-A-5 **REGULATING VALLEY-POLARIZED TRANSPORT IN
 GRAPHENE WITH STRAIN AND LINE DEFECT**
 12:30 *Du L., Tian H., Wang S.*

Magnetophotonics

Chairman: Vladimir BELOTELOV

- 3IT-B-1 **PULSED LASER NANOFABRICATION FOR ULTRAFAST
 MAGNETO-ACOUSTICS**
 11:00 *Temnov V.V.*

- 3IT-B-2
11:30
**OPTICAL SECOND-HARMONIC GENERATION FOR
STUDYING ANTIFERROMAGNETS**
Pavlov V.V.
- 3OT-B-3
12:00
**LIGHT MODULATION IN HYPERBOLIC MAGNETO-
PLASMONIC METASURFACES**
Kuzmin D.A., Usik M.O., Bychkov I.V., Bugaev A.S., Shavrov V.G., Temnov V.V.
- 3IR-B-4
12:15
**EFFECT OF GRANULE SIZES ON MAGNETO-OPTICAL
SPECTRA OF NANOCOMPOSITES**
*Simdyanova M.A., Yurasov A.N., Yasbin M.M., Gan'shina E.A., Gladyshev I.V.,
Garshin V.V., Pripechenkov I.M., Granovsky A.B.*

Magnetism and Superconductivity

Chairman: Nataliya PUGACH

- 3IT-C-1
11:00
COHERENT TUNNELING OF MAGNETIC FLUX QUANTA
Ustinov A.
- 3IT-C-2
11:30
**SUPERCONDUCTING NEURONS AND SYNAPSES FOR
ARTIFICIAL NEURAL NETWORK**
Sidorenko A.
- 3IT-C-3
12:00
**SPIN PUMPING IN NbRe/Co SUPERCONDUCTOR-
FERROMAGNET HETEROSTRUCTURES**
*Cirillo C., Rovirola M., González C., Casals B., Hernández J.M., Macià F.,
García-Santiago A., Attanasio C.*
- 3IT-C-4
12:30
QUASIPARTICLES IN THE SYK t-J MODEL
Kumar A., Sachdev S., Tripathi V.

16:00-18:00 Oral Sessions II

Spintronics and Magnetotransport

Chairman: Alexander NIKOLAEV

- 3IT-A-6
16:00
PLANAR HALL EFFECT IN TWO-LAYER SYSTEMS
Zhuravlev M., Vedyayev A., Alexandrov A.,
- 3IT-A-7
16:30
**EXTRINSIC TUNNEL HALL EFFECT IN MgO-BASED
TUNNEL JUNCTIONS**
Sapozhnikov M.V., Pasben'kin I.Yu., Gusev N.S., Karashtin E.A., Fraerman A.A.
- 3IR-A-8
17:00
**TUNNELING MAGNETORESISTANCE IN
(CoFeB)_x(LiNbO₃)_{100-x}/Si NANOCOMPOSITE STRUCTURES
BELOW PERCOLATION THRESHOLD: MANIFESTATIONS
OF CO-TUNNELING AND EXCHANGE EFFECTS**
*Nikolaev S.N., Chernoglazov K.Y., Yemelyanov A.V., Sitnikov A.V., Taldenkov A.N.,
Patsaev T.D., Vasilev A.L., Ganshina E.A., Demin V.A., Averkiev N.S., Granovsky A.B.,
Rylkov V.V.*

- 3OT-A-9
17:15 **THE ROLE OF SiO₂/SI INTERFACE IN MAGNETIC FIELD DRIVEN LATERAL PHOTOVOLTAIC EFFECT IN Mn/SiO₂/n-Si AND Fe/SiO₂/p-Si MIS STRUCTURES**
Bondarev I.A., Rautskii M.V., Volkov N.V., Lukyanenko A.V., Yakovlev I.A., Varnakov S.N., Tarasov A.S.
- 3OT-A-10
17:30 **ULTRAFAST LASER-INDUCED MAGNETIZATION SWITCHING IN CoFeB-BASED NANOSTRUCTURES**
Shelukhin L.A., Gareev R.R., Zbarsky V., Walowski J., Münzenberg M., Scherbakov A.V., Kazenwadel D.L., Kirilenko D.A., Härmäläinen S.J., van Dijken S., Pertsev N.A., Kalashnikova A.M.
- 3OT-A-11
17:45 **DC-BIASED RELOCATION OF THE BROADBAND RECTIFICATION RANGE IN MAGNETIC TUNNEL JUNCTIONS**
Trushin A.S., Kichin G.A., Skirdkov P.N., Zvezdin K.A.

Magnetophotonics

Chairman: Victor PAVLOV

- 3IT-B-5
16:00 **NON-COLLINEAR PHASE OF A FERRIMAGNET: ULTRAFAST SPIN DYNAMICS AND QUANTUM PERSPECTIVES**
Belotelov V.I.
- 3IT-B-6
16:30 **BISMUTH-SUBSTITUTED YTTRIUM GARNETS MADE BY METAL-ORGANIC DECOMPOSITION AND CRYSTALLIZED BY LASER ANNEALING, AND GASOGYROCHROMISM IN OXIDIZED PERMALLOY FOR MAGNETO-OPTICAL APPLICATIONS**
Kulikova D.P., Tananaev P.N., Sgibnev E.M., Shelaev A.V., Yankovskii G.M., Baryshev A.V.
- 3IR-B-7
17:00 **DEVELOPMENT OF SPIN-CONTROLLED LASERS USING VARIOUS MAGNETIC FIELD PULSES**
Goto T.
- 3OT-B-8
17:15 **TRANSVERSAL KERR EFFECT ENHANCEMENT IN 2D MAGNETOPLASMONIC CRYSTALS FOR SENSING APPLICATIONS**
Murzin D.V., Belyaev V.K., Gritsenko Ch., Komanicky V., Rodionova V.V.
- 3OT-B-9
17:30 **MAGNETIC FIELD TOPOGRAPHY WITH THE USE OF 1D AND 2D MAGNETOPLASMONIC CRYSTALS**
Murzin D.V., Belyaev V.K., Grunin A.A., Fedyanin A.A., Rodionova V.V.
- 3OT-B-10
17:45 **TRIGGERING MAGNETIZATION PRECESSION IN EuO VIA FEMTOSECOND OPTICAL ORIENTATION**
Kats V.N., Shelukhin L.A., Usachev P.A., Averyanov D.V., Karateev I.A., Parfenov O.E., Taldenkov A.N., Tokmachev A.M., Storchak V.G., Pavlov V.V.

Magnetism and Superconductivity

Chairman: Alexey USTINOV

- 3IT-C-5
16:00 **INVERSE PROXIMITY EFFECT IN STATICS AND DYNAMICS OF BYLAYERS SUPERCONDUCTOR-FERROMAGNET**
Pugach N.G., Turkin Ya.V., Seleznev D.V., Yagovtsev V.O.
- 3IT-C-6
16:30 **RE-ENTRANT FILAMENTARY SUPERCONDUCTIVITY RESULTING FROM THE COMPETITION WITH CHARGE ORDER**
Venditti G., Maccari I., Grilli M., Lorenzana J., Caprara S.
- 3IR-C-7
17:00 **EXPANDING THE OPERATIONAL TEMPERATURE WINDOW OF A SUPERCONDUCTING SPIN VALVE**
Kamashv A.A., Garif'yanov N.N., Validov A.A., Kataev V., Fominov Ya.V., Garifullin I.A.
- 3OT-C-8
17:15 **SUPERCURRENT DIODE EFFECT IN S/F HYBRID STRUCTURES ON TOP OF THE TOPOLOGICAL INSULATOR**
Karabassov T., Bobkova I.V., Golubov A.A., Vasenko A.S.
- 3OT-C-9
17:30 **FUNDAMENTAL PROBLEMS OF HIGH SPEED VACUUM MAGNETIC LEVITATION TRANSPORTATION USING HIGH TEMPERATURE SUPERCONDUCTING MATERIALS**
Koledov V., Shavrov V., Terentyev Yu., Kamantsev A., von Gratowski S., Karpukhin D., Babachanakh A., Lryukhin V., Balabanov V.
- 3OT-C-10
17:45 **LOCALIZED CHARGE CARRIERS AND THE POSSIBILITIES OF THE ANDERSON METAL-INSULATOR TRANSITION IN La-BASED SUPERCONDUCTORS**
Dzhumanov S., Kurbanov U.T., Khudayberdiev Z.S.
-

18:00-20:00 **Poster Sessions**

Magnetophotonics

Chairman: Aleksey YURASOV

- 3PO-L5-1 **THE SPIN WAVES GENERATION IN THE ENGINEERED MAGNETO-PHOTONIC CRYSTAL**
Borovkova O., Kalish A., Belotelov V.
- 3PO-L5-2 **NONLINEAR OPTICAL DIAGNOSTICS AND MANIPULATION WITH MAGNETIC DOMAIN WALLS FOR ENERGY-EFFECTIVE NEUROMORPHIC COMPUTING**
Guskov A.A., Stepanov M.A., Mitetelo N.V., Mishina E.D., Pyatakov A.P.

- 3PO-L5-3 **«GRAY» SLIT DIFFRACTION AND THE POSSIBILITY OF ITS USE TO IMPROVE THE SPATIAL RESOLUTION OF MAGNETO-OPTICS**
Shapaeva T.B., Khudaigulova E.F.
- 3PO-L5-4 **SPIN NOISE OF MAGNETICALLY ANISOTROPIC CENTERS**
Kozlov V.O., Ryzhov I.I., Kozlov G.G., Zapasskii V.S.
- 3PO-L5-5 **ULTRAFAST PHOTO-INDUCED PHASE TRANSITIONS IN MAGNETITE**
Kuzikova A.V., Shelukhin L.A., Maximov F.M., Chernov I.E., Pisarev R.V., Kalashnikova A.M.
- 3PO-L5-6 **THE EFFECT OF AN EXTERNAL MAGNETIC FIELD ON SURFACE PLASMON-POLARITONS IN THE VO₂-SiO₂-METASURFACE STRUCTURE BASED ON GRAPHENE**
Usik M.O., Kuzmin D.A., Bychkov I.V.
- 3PO-L5-7 **THE PECULIARITIES OF MAGNETO-OPTICAL SPECTRA OF NiFe-Ta BILAYERS**
Yashin M.M., Pripechenkov I.M., Yurasov A.N., Skidanov V.A., Simdyanova M.A., Gan'shina E.A., Gladyshev I.V., Granovsky A.B.
- 3PO-L5-8 **THEORETICAL AND EXPERIMENTAL STUDY OF EFFECTS IN THE TWO-SUBLATTICE IRON GARNET SYSTEM WITH THE MAGNETIZATION COMPENSATION POINT**
Gusev N.A., Ignatyeva D.O., Prisyazhnyuk A.V., Prilepskii I.V., Krichensky D.M., Polulyakh S.N., Zvezdin A.K., Berzhansky V.N., Belotelov V.I.
- 3PO-L5-9 **ULTRAFAST DYNAMICS OF MAGNETIC ORDER AND SPECTRAL ADDRESSING THE SUBLATTICES IN FeCr₂O₄ SPINEL**
Yusupov R.V., Petrov A.V., Cherosov M.A., Batulin R.G., Kiiamov A.G., Nasyrova M.I., Nikitin S.I., Eremin M.V.
- 3PO-L5-10 **MAGNETO-OPTICAL ELLIPSOMETRY OF THIN MAX FILMS WITH OPTICAL UNIAXIAL ANISOTROPY**
Maximova O.A., Lyaschenko S.A., Yakovlev I.A., Shevtsov D.A., Andryushchenko T.A., Varnakov S.N., Ovchinnikov S.G.

Magnetic Shape-Memory Alloys and Magnetocaloric Effect

Chairman: Adler GAMZATOV

- 3PO-L6-1 **MECHANISMS FOR REGULATING THE FREQUENCY STABILITY OF THE MAGNETOCALORIC EFFECT IN POLYCRYSTALLINE MANGANITES**
Gamzatov A.G., Abdulkadirova N.Z., Kadirbardeev A.T., Aliev A.M.

- 3PO-L6-2 **PHASE SHIFT AT MAGNETOCALORIC EFFECT MEASUREMENTS IN AC MAGNETIC FIELDS AS A MARKER OF THE MAGNETIC PHASE TRANSITION ORDER**
Aliiev A.M., Alisultanov Z.Z., Gamzatov A.G.
- 3PO-L6-3 **PHASE STABILITY OF HEUSLER ALLOYS Ni-Co-Mn-Z (Z = Ga, In, Sn, Sb)**
Erager K.R., Sokolovskiy V.V., Buchelnikov V.D.
- 3PO-L6-4 **THERMAL PROPERTIES OF AMORPHOUS FeNiSiC ALLOYS**
Kuvandikov O.K., Subkbankulov I., Khamraev N.S., Razhabov R.M., Imamnazarov D.Kh., Khomitov Sh.A.
- 3PO-L6-5 **THERMAL CONTACT RESISTANCE AT COPPER-GRAPHENE-COPPER INTERFACE IN STRONG MAGNETIC FIELDS**
Kolesov K.A., Mashirov A.V., Kuznetsov A.S., Chibchkov M.V., Koledov V.V., Shavrov V.G.
- 3PO-L6-6 **MAGNETORESISTANCE AND MAGNETOCALORIC EFFECT OF Mn₅Si₃ COMPOUND UNDER ISOTHERMAL AND ADIABATIC CONDITIONS**
Kuznetsov A.S., Mashirov A.V., Musabirov I.I., Kolesov K.A., Shavrov V.G.
- 3PO-L6-7 **MAGNETOCALORIC EFFECT IN R₅Si₄ (R = Tb, Dy, Ho) ALLOYS**
Utarbekova M.V., Orshulevich M.A., Taskaev S.V., Bataev D.S.
- 3PO-L6-8 **LABORATORY-TYPE MAGNETOCALORIC AND MULTICALORIC PROTOTYPE DEVICES**
Amirov A.A., Yurin I.A.
- 3PO-L6-9 **EFFECT OF HYDROGEN ON THE MAGNETIC PROPERTIES OF MULTICOMPONENT COMPOUNDS (Tb,Dy,Ho)(Co,Fe)₂**
Pankratov N.Yu., Politova G.A., Aleroev A.-R.A., Tereshina I.S.
- 3PO-L6-10 **MAGNETIC PROPERTIES OF B-DOPED Mn-Ga-C BASED ALLOYS**
Dubenko I., Oli A., Duncan J., Granovsky A., Koshkid'ko Yu., Stadler S., Talapatra S., Ali N.

Magnetism and Superconductivity

Chairman: Andrey KAMASHEV

- 3PO-L7-1 **CRITICAL TEMPERATURE OF SUPERCONDUCTOR/ANTIFERROMAGNET HETEROSTRUCTURES**
Bobkov G.A., Bobkova I.V., Bobkov A.M., Gordeeva V.M., Golubov A.A.
- 3PO-L7-2 **INVESTIGATION OF THE FEATURES OF A SUPERCONDUCTING SPIN VALVE Fe₁/Cu/Fe₂/Cu/Pb ON A PIEZOELECTRIC SUBSTRATE PMN-PT**
Kamashev A.A., Garif'yanov N.N., Validov A.A., Mamin R.F., Garifullin I.A.

3PO-L7-3 **DESCRIPTION OF UNCONVENTIONAL SUPERCONDUCTIVITY IN THE REGIME OF STRONG FLUCTUATIONS IN THE FRAMEWORK OF THE MODIFIED EFFECTIVE COLEMAN-WEINBERG ACTION**

Siraev F.M., Avdeev M.V., Proshin Yu.N.

3PO-L7-4 **SUPERCONDUCTING STATES AND PROPERTIES OF DOPED HIGH- T_c CUPRATES**

Dzhumanov S., Mayinova U.K.

Multiferroics

Chairman: Leonid FETISOV

3PO-L8-1 **MAGNETOELECTRIC EFFECT IN LAYERED HETEROSTRUCTURE**

ANTIFERROMAGNET - PIEZOELECTRIC

Burdin D., Fetisov L., Chashin D., Ekonomov N., Preobrazhensky V., Fetisov Y.

3PO-L8-2 **NONLINEAR MAGNETOELECTRIC EFFECTS IN FERROMAGNETIC – PIEZOELECTRIC RING STRUCTURE**

Fetisov L., Savelev D., Chashin D., Musatov V., Fedulov F., Fetisov Y.

3PO-L8-3 **STRUCTURE AND PROPERTIES OF MULTIFERROIC FERROBORATES OF MIXED COMPOSITION**

$\text{SmFe}_{3-x}\text{Al}_x(\text{BO}_3)_4$ AND $\text{Eu}_{1-y}\text{La}_y\text{Fe}_3(\text{BO}_3)_4$

Frolov K.V., Smirnova E.S., Sidorova E.V., Alekseeva O.A., Sorokin T.A., Artemov V.V., Chmelenin D.N., Gudim I.A.

3PO-L8-4 **NON-MAGNETIC & MAGNETIC FERROELECTRIC TUNNEL JUNCTION MODELLING**

Jagga D., Useinov A.

3PO-L8-5 **CRYSTAL FIELD PARAMETERS AND MAGNETIC PROPERTIES CORRELATIONS IN RARE-EARTH ORTHOFERRITES**

Usmanov O.V., Zobkalo I.A., Ovsianikov A.K.

3PO-L8-6 **FEATURES OF THE ORIGIN OF 0° DOMAIN WALLS IN UNIAXIAL FILMS WITH FLEXOMAGNETOELECTRIC EFFECT IN A MAGNETIC FIELD**

Vakhitov R.M., Nizyamova A.R., Solonetsky R.V.

3PO-L8-7 **FEATURES OF THE MANIFESTATION OF THE FLEXOMAGNETOELECTRIC EFFECT IN (111)-ORIENTED FERRITE-GARNET FILMS**

Vakhitov R.M., Gridneva G.T., Yumaguzin A.R.

3PO-L8-8 **MAGNETIC PROPERTIES OF $\text{TbCr}_3(\text{BO}_3)_4$ GROWN FROM MELT-SOLUTIONS BASED ON $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ AND BASED ON Li_2WO_4**

Gudim I.A., Eremin E.V., Titova V.R., Mikhashenok N.V.

3PO-L8-9 **MAGNETIC PROPERTIES OF OXYBORATE WITH
HUNTITE STRUCTURE**

Titova V.

Diluted Magnetic Semiconductors and Oxides

Chairman: Ivan KOKURIN

3PO-L9-1 **PARAMAGNETIC PROPERTIES OF PYRRHOTINE AND
PENTLANDITE MOUNTAIN MINERALS AT HIGH
TEMPERATURES**

Kuvandikov O.K., Shodiev Z.M., Khasanov H.B., Akhtamov J.Sh.

3PO-L9-2 **COMPARATIVE STUDY OF THE STRUCTURE AND
ELECTROMAGNETIC CHARACTERISTICS OF
MANGANITES DOPED WITH
CATION PAIRS (Fe, Zn), (Fe, Co), (Fe, Mg)**

Badelin A.G., Karpasyuk V.K., Estemirova S.Kh.

3PO-L9-3 **LIGHT ENVELOPE SOLITONS IN A TRANSVERSELY
MAGNETIZED FERROMAGNETIC SEMICONDUCTOR
FILM WITH THE PROPERTIES OF THE "LEFT-HANDED"
MEDIA**

Bogomolova A.V., Romanenko D.V., Grishin S.V.

3PO-L9-4 **STUDY OF CHANGES IN THE COMPOSITION OF THE
CdTe SURFACE UPON IMPLANTATION OF O²⁺ IONS AND
SUBSEQUENT ANNEALING**

Abduvaitov A.A., Boltaev Kh.Kh., Umirzakov B.E., Tashmukhamedova D.A.

3PO-L9-5 **REGULARITIES AND MECHANISMS OF COMPOSITION
INFLUENCE ON MAGNETIC AND NONLINEAR
ELECTRICAL CHARACTERISTICS OF La-Sr MANGANITES
WITH COMBINED SUBSTITUTION FOR MANGANESE**

Karpasyuk V.K., Badelin A.G., Derzhavin I.M., Estemirova S.Kh., Merkulov D.I.

3PO-L9-6 **CONTRIBUTION OF RARE EARTH ELEMENTS TO
THERMAL CONDUCTIVITY OF YTTRIUM ALUMINUM
GARNET CRYSTALS**

Djabbarov I., Salakhitdinova M.K., Kulmatova G.

3PO-L9-7 **STRUCTURAL DISORDER, HEAT CAPACITY, AND
MAGNETIC TRANSITIONS IN Cu₂FeBO₅**

*Kazak N.V., Gokhfeld Yu.S., Belskaya N.A., Molokeev M.S., Gudim I.A., Eremin E.V.,
Knyazev Yu.V., Velikanov D.A., Ovchinnikov S.G.*

- 3PO-L9-8 **INVESTIGATION OF FERRIMAGNETIC PROPERTIES OF IMPURITY ATOMS OF MANGANESE DIFFUSIONLY DOPED IN SILICON**
ZikrillaeV N.F., Isamov S.B., Kushiev G.A., Abdugamiev Y.A., Urakova F.E.
- 3PO-L9-9 **ISOTHERMAL-MAGNETOSTATIC MODULI OF THE JAHN-TELLER SUBSYSTEM IN ZINC SELENIDE CRYSTAL DOPED WITH CHROMIUM**
Sarychev M.N., Zhevstovskikh I.V., Ofitserova N.Yu., Averkiev N.S., Gudkov V.V.
- 3PO-L9-10 **DISTRIBUTION OF Co^+ IONS IN SINGLE CRYSTALS OF $\text{Li}_{0.5}\text{Ga}_{2.5}\text{O}_4$**
Shapovalov V.A., Shapovalov V.V., Drokina T.V., Vorotynov A.M., Valkov V.I.
- 3PO-L9-11 **FERRIMAGNETIC PROPERTIES OF THE MINERALS CHROMITE - FeCr_2O_4 AND TITANOMAGNETITE - TiFe_2O_4 AT HIGH TEMPERATURES**
Kuvandikov O.K., Shodiev Z.M., Khasanov Kh.B., Khairullaev B.A., Akhtamov Zh.Sh.
- 3PO-L9-12 **ORIGIN OF WEEK FERROMAGNETISM IN $\text{Zn}_x\text{Co}_{1-x}\text{O}$**
Arslanov A., Xudoyqulov J., Nebesniy A., Nasirov A., Yuldashev Sh.U.

Magnetic materials. High Frequency Properties

Chairman: Artem SHIRYAEV

- 3PO-L10-1 **PHOTOELASTIC PROPERTIES OF LEAD MOLYBDATE CRYSTALS WITH PARAMAGNETIC IMPURITIES OF SODIUM AND NEODYMIUM**
Akhmedzhanov F.H., Elboeva M.I., Mirzaev S.Z.
- 3PO-L10-2 **ATTENUATION OF ACOUSTIC WAVES IN CUBIC CRYSTALS AT HIGH FREQUENCIES**
Akhmedzhanov F.H., Kurbanov J.O., Makharov N.M.
- 3PO-L10-3 **SPIN CURRENT FOR TUNING THE BAND GAPS OF SPIN WAVES**
Morozova M.M., Lobanov N.D., Matveev O.V.
- 3PO-L10-4 **SPIN WAVES BRAGG IN RESONANCES IN MULTIFERROIC SANDWICH YIG/HZO**
Morozova M.M., Matveev O.V., Markeev A.M., Nikitov S.A.
- 3PO-L10-5 **EFFECTS OF THE COMPOSITION OF A 2D-SEMICONDUCTOR LAYER ON THE EFFICIENCY OF SPINTRONIC THz EMITTER**
Lebedeva E.D., Buryakov A.M., Avdeev P.Yu., Gorbatova A.V., Sapozhnikov M.V., Pashenkin I.Y., Mishina E.D.
- 3PO-L10-6 **VALIDITY OF THE QUASI-TEM APPROXIMATION FOR PERMITTIVITY AND PERMEABILITY MEASUREMENTS IN ONE-PORT AND TWO-PORT STRIPLINES**
Ivanov P.A., Petrov D.A., Rozanov K.N.

- 3PO-L10-7 **NUMERICAL SIMULATION OF LEFT-HANDED BEHAVIOR
IN THE FERROMAGNETIC METAMATERIAL WITH AN
ARRAY OF HIGH PERMITTIVITY DIELECTRIC RODS**
Amelchenko M.D., Ogrin F.Yu., Grishin S.V.

Miscellaneous

Chairman: Yuliya ALEKHINA

- 3PO-L11-1 **MAGNETIC CHARGE AND THE PROBLEMS OF
MAGNETISM**
Kuvandikov O., Amonov B.
- 3PO-L11-2 **PHOTOELECTRIC CHARACTERISTICS OF Si
PHOTODETECTORS**
Gaibov A.G., Eshqulov A.A., Vahabov Q.I.
- 3PO-L11-3 **DETERMINATION OF THE ELEMENTAL COMPOSITION
OF ENVIRONMENTAL OBJECTS USING INSTRUMENTAL
NEUTRON ACTIVATION ANALYSIS**
Kurbanov B.I., Khaydarov A.A., Danilova E.A., Osinskaya N.S.
- 3PO-L11-4 **MONITORING OF ATMOSPHERIC OZONE BY THERMAL
RADIATION SPECTRA**
Kurbaniyazov S.Kh., Kurbaniyazov A.S., Turniyazov R.K.
- 3PO-L11-5 **INVESTIGATION OF HYDROGEN-BONDED COMPLE XES
OF THE FORMAMIDE IN THE PROTON-ACCEPTOR
SOLUTIONS BY POLARIZED RAMAN SPECTROSCOPY AND
DFT CALCULATIONS**
Jumabaev A., Hushvaktov H., Absanov A., Holikulov U., Norkulov A.
- 3PO-L11-6 **STUDY OF STRUCTURAL PHENOMENA IN AQUEOUS
SOLUTIONS OF NON-ELECTROLYTE BY THE METHOD
OF DYNAMIC LIGHT SCATTERING**
*Sabirov L.M., Khaidarov X.S., Jurayev Y.T., Karshiboyev Sh.E., Kadirov Sh.A.,
Khasanov M.A., Norjigitov A.*
- 3PO-L11-7 **STUDY THE DEPENDENCE OF HOLE MOBILITY AND
ELECTRICAL CONDUCTIVITY ON THE THICKNESS OF
THE SILICIDE LAYER**
Isaev M.Sh., Eshkulov A.A.
- 3PO-L11-8 **ON THE APPLICATION OF THE METHOD OF
DIAMAGNETIC ANISOTROPY TO STUDY THE
ORIENTATION OF MOLECULAR CHAINS NATURAL FIBERS**
Islamov B.Kh., Vakhobov K.I.

July 4, Tuesday

9:00-10:30 Plenary Lectures

Chairman: Sergey NIKITOV

4PL-A-1 **TOWARD HELIMAGNET BASED SPINTRONICS**

9:00

Ustinov V.V., Yasyulevich I.A.

4PL-A-2 **MAGNON QUANTUM EFFECTS BASED ON**

9:45

**NANOLAYERED VERTICAL MAGNON
HETEROJUNCTIONS**

Han X. F.

11:00-12:30 Oral Sessions I

Spintronics and magnetotransport

Chairman: Nikita AVERKIEV

4IT-A-1 **SKYRMIONS AND BIMERONS IN FERROMAGNETIC**

11:00

**TOPOLOGICAL MATERIALS AND ELECTRICALLY
GENERATED ANTIFERROMAGNETIC HALF-SKYRMIONS**

Tretiakov O.A.

4IT-A-2

11:30

**SPIN-ORBIT SPLITTING IN QUANTUM WELLS:
MICROSCOPIC MECHANISMS AND ROLE IN SPIN
TRANSPORT**

Tarasenko S.A.

4IR-A-3

12:00

**PHENOMENOLOGICAL DESCRIPTION OF SURFACE
ACOUSTIC WAVES HYBRIDISED WITH SPIN WAVES**

Yamamoto K.

4OT-A-4

12:15

**GEOMETRIC ASYMMETRY INDUCED NONRECIPROCITY
OF MAGNETOSTATIC SPIN WAVES IN DIPOLAR COUPLED
FERROMAGNETIC LAYERS**

Gerevenkov P.I., Bessonov V.D., Teplov V.S., Telegin A.V.,

Kalashnikova A.M., Khokhlov N.E.

Magnetic Nanostructures and Low Dimensional Magnetism

Chairman: Rushana EREMINA

4IT-B-1

11:00

**FERMI SURFACE CHIRALITY IN A LOW SYMMETRY TaSe₂
MONOSHEET GROWN BY Ta/Bi₂Se₃(0001) INTERFACE
REACTION**

Meyerheim H., Polyakov A., Mohseni K., Felici R., Tusche C., Chen Y.-J., Feyer V., Geck J.,

Ritschel T., Ernst A., Rubio-Zuazo J., Castro G., Parkin S.S.P.

- 4IT-B-2
11:30 **SOME EXPERIMENTS AND APPLICATIONS USING MAGNETIC NANOPARTICLES AND THE CASE OF FRICTIONLESS, SPHERICALLY SYMMETRICAL NANOMAGNETIC HORSES**
Socolovsky L.M.
- 4IR-B-3
12:00 **FLEXOMAGNETIC EFFECT IN A CrI₃ BILAYER**
Pyatakov A.P., Kaminskiy A.S., Qiao L., Sladek J., Ren W.
- 4OT-B-4
12:15 **AB INITIO INVESTIGATION OF RASHBA SPLITTING ON POLAR/NON-POLAR HETEROSTRUCTURES**
Enseev A.A., Piyanzina I.I., Nedopekin O.V., Tayurskii D.A.

Magnetism in Biology and Medicine

Chairman: Larissa PANINA

- 4IT-C-1
11:00 **GOLD/COBALT FERRITE NANOCOMPOSITE AS AN INSTRUMENT FOR PHOTOTHERMAL THERAPY**
Pshenichnikov S.E., Motorzhina A.V., Anikin A.A., Belyaev V.K., Litvinova L.S., Jovanović S., Panina L.V., Rodionova V.V., Levada K.V.
- 4IT-C-2
11:30 **MULTI-PARAMETRIC MAGNETIC PARTICLE IMAGING**
Zhong J., Zhang R., Sun Sh., Sun Sh., Xu L.
- 4IR-C-3
12:00 **DRUG COMPOUNDS OF MAGNETIC PARTICLES WITH MOLECULES OF PHARMACOLOGICAL INTEREST: STRUCTURAL PROPERTIES**
Bălăsoiu M., Chilom C.G., Stolyar S., Creanga D., Fici D., Rogachev A., Ivankov A., Orelovich O., Turchenko V., Kuklin A.
- 4OT-C-4
12:15 **ON THE ISSUE OF MAGNETICALLY INDUCED FLOWS IN THROMBOSED CHANNELS**
Musikbin A.Y., Zubarev A.Y.
-

16:00-18:00 **Oral Sessions II**

Magnetic Soft Matter (magnetic polymers, complex magnetic fluids and suspensions)

Chairman: Andrey ZUBAREV

- 4IT-A-5
16:00 **TEXTURING OF THE MAGNETIC NANOPARTICLE EASY AXES DURING FREEZING OF A MAGNETIC SUSPENSION UNDER THE PRESENCE OF AN EXTERNAL FIELD**
Ivanov A.O., Solovyova A.Yu., Elfimova E.A., Musikbin A.Yu., Subbotin I.M.
- 4IT-A-6
16:30 **DESIGN OF POLYMER MATRICES FOR MAGNETOACTIVE ELASTOMERS**
Kramarenko E.Yu.

- 4IR-A-7
17:00
**EXTENDED TREATMENT OF PARTICLE
MAGNETISATION IN MOLECULAR DYNAMICS
SIMULATIONS**
Kantorovich S.S., Kuznetsov A., Mostarac D., Rosenberg M., Helbig S., Suess D.
- 4IR-A-8
17:15
**MAGNETOACTIVE ELASTOMER AS A COMPONENT FOR
MAGNETOELECTRIC COMPOSITES**
*Makarova L.A., Alekhina Yu.A., Makarin R.A., Isaev D.A., Kolesnikova V.G.,
Rodionova V.V., Perov N.S.*
- 4OT-A-9
17:30
**MAGNETOACTIVE ELASTOMER WITH ANISOTROPIC
STRUCTURE AS MAGNETIC FIELD AND PRESSURE
SENSORS**
Stepanov G.V., Lobanov D.A., Bakhtiarov A.V., Storozhenko P.A.
- 4OT-A-10
17:45
**EFFECT OF A MAGNETIC FIELD ON THE TRANSMISSION
SPECTRA OF MAGNETIC FLUIDS WITH DIFFERENT SIZES
OF NANOPARTICLES**
Yerin C.V., Vinchar V.I.

Magnetic Nanostructures and Low Dimensional Magnetism

Chairman: Valeria RODIONOVA

- 4IT-B-5
16:00
EXPLORING MAGNETIC DISORDER AT THE NANOSCALE
Peddis D.
- 4IT-B-6
16:30
**PHASE TRANSITIONS IN $\text{Sr}_2\text{MeNbO}_6$ (Me=Mn, Cr, Fe)
DOUBLE PEROVSKITES**
*Eremina R.M., Popov D.V., Batulin R.G., Yatsyk I.V., Cherosov M.A., Chupakhina T.I.,
Deeva Yu.A., Maiti T.*
- 4OT-B-7
17:00
**FRACTIONAL METAL PHASES IN DOPED AB BILAYER
GRAPHENE**
Shoychakov A.O., Rozhkov A.V., Rakhmanov A.L.
- 4OT-B-8
17:15
CLIMBING THE SPIN LADDERS IN MoOBr_3
*Vorobyeva A., Komleva E., Morozov I., Geidorf M., Zakharov K., Zaikina A.,
Vasilchikova T., Ovchenkov E., Shvanskaya L., Streltsov S., Vasiliev A., Volkova O.*
- 4OT-B-9
17:30
**UNBIASED IDENTIFICATION OF THE GRIFFITHS PHASE
IN INTERCALATED TRANSITION METAL
DICALCOGENIDES BY USING LEE-YANG ZEROS**
Ovchinnikov A.S., Nosova N.M., Sherokalova E.M., Selezneva N.V., Baranov N.V.
- 4OT-B-10
17:45
**TUNABLE SINGLE-ATOMIC CHARGES ON A CLEAVED
INTERCALATED TRANSITION METAL
DICALCOGENIDE $\text{Co}_{1/3}\text{NbS}_2$**
*Lim S., Pan Sh., Wang K., Ushakov A.V., Sukhanova E.V., Popov Z.I., Kvashnin D.G.,
Streltsov S.V., Cheong S.-W.*

High Frequency Properties and Metamaterials

Chairman: Vladimir KHOVAYLO

- 4IT-C-5
16:00 **EFFECTS OF MAGNETIZATION INERTIA IN SPIN DYNAMICS**
Semisalova A.S., Cherkasskii M., Mondal R., Barsukov I., Farle M.
- 4IT-C-6
16:30 **TAILORING MAGNETIC PROPERTIES OF MXene NANOCOMPOSITES THROUGH CO-PRECIPITATION SYNTHESIS AT REDUCED SCALE**
Omelyanchik A.S., Sobolev K.V., Shilov N.R., Andreev N.V., Gorshenkov M.V., Rodionova V.V.
- 4OT-C-7
17:00 **DEVELOPMENT OF A GENERALIZED MODEL OF THE METAMAGNETIC PHASE TRANSITION IN La(Fe,Si)₁₃ ALLOYS WITHIN LANDAU APPROXIMATION**
Makarin R.A., Karpenkov D.Yu., Zhelezniy M.V., Komlev A.S.
- 4OT-C-8
17:15 **MAGNETIZATION REVERSAL PROCESSES OF NANOSTRUCTURED Pr-Fe-B ALLOYS**
Maltseva V.E., Andreev S.V., Selezneva N.V., Golovnia O.A., Volegov A.S.
- 4OT-C-9
17:30 **RETRIEVING THE INTRINSIC MICROWAVE PERMITTIVITY AND PERMEABILITY OF NI-ZN FERRITES**
Shiryaev A.O., Rozanov K.N., Kostishin V.G., Petrov D.A., Dolmatov A.V., Maklakov S.S.
- 4OT-C-10
17:45 **EXPLAINING UNIVERSALITY IN MAGNETICALLY DETECTED RESIDUAL STRESSES IN STEELS**
Damatopoulou T., Ktena A., Hristoforou E.

July 5, Wednesday

9:00-10:30 Plenary Lectures

Chairman: Sergey TARASENKO

5PL-A-1
9:00 **CYLINDRICAL MICRO- AND NANOWIRES: FROM
CIRVATURE EFFECTS ON MAGNETIZATION TO SENSING
APPLICATIONS**

Vazquez M.

5PL-A-2
9:45 **TUNEABLE MAGNETIC PHASE TRANSITIONS IN RARE-
EARTH INTERMETALLIC COMPOUNDS WITH ThMn_2Si_2
STRUCTURE**

Mushnikov N.V., Gerasimov E.G.

11:00-12:45 Oral Sessions I

Magnetic Nanostructures and Low Dimensional Magnetism

Chairman: Rushana EREMINA

5IT-A-1
11:00 **MAGNETIC FRUSTRATION AND MAGNETOCALORIC
EFFECT IN A DIPOLAR-HEISENBERG MAGNET LiGdF_4**
*Glazkov V.N., Sosin S.S., Iafarova A.F., Andreev G.Yu., Batulin R.G., Korableva S.L.,
Morozov O.A., Romanova I.V.*

5OT-A-2
11:30 **MAGNETIC ORDERING IN A DIPOLAR MAGNET LiGdF_4**
*Sosin S.S., Smirnov A.I., Soldatov T.A., Iafarova A.F., Edel'man V.S., Korableva S.L.,
Morozov O.A., Romanova I.V.*

5OT-A-3
11:45 **MAGNETIC PROPERTIES OF MICRO- AND NANOSIZED
POWDERS AND SINGLE CRYSTALS
OF LiREF_4 (RE = Tb, Dy, Yb)**
*Romanova I.V., Abe S., Andreev G.I., Cherosov M.A., Gilmutdinov I.F., Kiiamov A.G.,
Korableva S.L., Matsumoto K., Nuzhina D.S., Morozov O.A., Semakin A.S.,
Ubukata K., Tagirov M.S.*

5OT-A-4
12:00 **DOMAIN STRUCTURE IN $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ THIN FILMS
DEPOSITED ON AN NdGaO_3 SUBSTRATE**
*Shaikhbulov T.A., Temiryazeva M.P., Luzanov V.A., Markelova M.N., Amelichev V.A.,
Safin A.R., Kaul A.R., Kalyabin D.V., Nikitov S.A.*

5OT-A-5
12:15 **MAGNETIC HYSTERESIS, MAGNETORESISTANCE AND
STRUCTURE OF $\text{Co}_n(\text{CoO})_{100-n}$ THIN-FILM COMPOSITES**
*Sitnikov A.V., Makagonov V.A., Kalinin Yu.E., Kushchev S.B., Fosbin V.A.,
Granovsky A.B., Gan'shina E.A., Perova N.N.*

- 5OT-A-6
12:30
- ANTIFERROMAGNETISM OF IRON OXIDE
NANOPARTICLES IN THE MATRIX OF POTASSIUM
ALUMINOBORATE GLASSES AT THE
THERMORADIATION TREATMENT.**
Salakhitdinova M.K., Ibragimova E.M., Kuvandikov O.K.

Magnetism and Superconductivity

Chairman: Anatolie SIDORENKO

- 5IT-B-1
11:00
- APPROXIMATE APPROACH TO THE THEORY OF THE
PROXIMITY EFFECT OF A SUPERCONDUCTOR/CHIRAL
FERROMAGNET CONTACT**
Tumanov V.A., Proshin Yu.N.
- 5IT-B-2
11:30
- QUANTUM SIZE PHENOMENA IN THIN
SUPERCONDUCTING FILMS**
Arutyunov K.Yu., Sedov E.A., Bezymiannykh D.G., Pugach N.G.
- 5OT-B-3
12:00
- COMPOSITE MAGNETIC EXCITATIONS IN
SUPERCONDUCTOR/MAGNET HETEROSTRUCTURES**
Bobkov A.M., Bobkova I.V., Sorokin S.A., Kamra A., Belzig W.
- 5OT-B-4
12:15
- LOW-DIMENSIONAL MAGNETIC CENTERS IN HTSC
YBCO FILM ON STEEL-276 INDUCED BY GAMMA-QUANTA
AND ELECTRON BEAM**
*Ibragimova E.M., Shodiev A.A., Mussaeva M.A., Kurbanov U.T., Abrorova S.,
Novikov M.S., Tyutyunnikov S.I*
- 5IR-B-5
12:30
- ELECTRONIC STRUCTURE AND EXCHANGE
INTERACTIONS OF QUASI-LOW-DIMENSIONAL
 $\text{Cu}_3\text{TeO}_3(\text{SO}_4)_2$ AND $\text{PbCu}(\text{SeO}_4)(\text{OH})_2$**
Pchelkina Z.V.
- 5IT-B-6
12:45
- HIGH-TEMPERATURE SUPERCONDUCTIVITY OF
HYDRIDES: ROLE OF QUANTUM DEFECTS**
Morosov A.I., Sigov A.S.

Multiferroics

Chairman: Alexander PYATAKOV

- 5IT-C-1
11:00
- SPIN-RESOLVED POINT-LIKE CONTACT MODEL & ITS
APPLICATIONS**
Useinov A.
- 5IT-C-2
11:30
- CHIRALITY-INDUCED SPIN POLARIZATION AND
ENHANCED X-RAY DICHOISM IN A COLLINEAR
ANTIFERROMAGNET**
*Okamoto J., Wang R.-P., Chu Y.Y., Shiu H.W., Singh A., Huang H.Y., Mou C.Y., Teh S.,
Jeng H.T., Du K., Xu X., Cheong S-W., Du C. H., Chen C.T., Fujimori A., Huang D.J.*

5IT-C-3
12:00

MULTIFERROICS IN MESO-LIKE DEVICES
Gareeva Z.V., Shulga N.V., Doroshenko R.A., Zvezdin K.A., Zvezdin A.K.

5OT-C-4
12:30

**PHASE TRANSITIONS DRIVEN BY MAGNETOELECTRIC
AND INTERFACIAL DZYALOSHINSKII-MORIYA
INTERACTION**

Sharafullin I.F., Yuldasheva A.R., Kizirgulov I.R., Baisheva A.Kh., Diep H.T.

Soft and Hard Magnetic Materials

Chairman: Anna SEMISALOVA

5OT-D-1
11:00

**INVESTIGATION OF RARE-EARTH MAGNETISM IN HARD
MAGNETIC MATERIALS**

Kostyuchenko N.V., Tereshina I.S., Surdin O.M., Kudasov Yu.B., Zvezdin A.K.

5OT-D-2
11:15

**MAGNETOCALORIC EFFECT AND MAGNETOSTRICTION
OF (Er,Y,Sm)Fe₂ COMPOUNDS**

Pankratov N.Yu., Karpenkov A.Yu., Umkhaeva Z.S., Tereshina I.S.

5OT-D-3
11:30

**MAGNETIC TOMOGRAPHY OF AMORPHOUS MAGNETIC
MICROWIRES: IMPEDANCE-BASED APPROACH**

*Alekhina Yu.A., Kolesnikova V.G., Andreev N.V., Rodionov V.V., Rodionova V.V.,
Panina L.V., Perov N.S.*

5OT-D-4
11:45

**ENGINEERING OF MAGNETIC PROPERTIES OF Co-RICH
MICROWIRES BY PROCESSING**

Gonzalez-Legarreta L., Zhukova V., Corte-Leon P., Ipatov M., Blanco J. M., Zhukov A.

5OT-D-5
12:00

**MULTIMAGNETIC CORE/SHELL MICROWIRES FOR
BIOMEDICAL APPLICATIONS: EXPERIMENT AND
SIMULATIONS**

*Kolesnikova V.G., Sadovnikov A.V., Baraban I.A., Martyshkin A.A., Sobolev K.V.,
Vazquez M., Rodionova V.V.*

5OT-D-6
12:15

**HIGH-TEMPERATURE SPONTANEOUS SPIN
MAGNETIZATION OF DONOR CONDUCTION
ELECTRONS IN HIGHLY DILUTED MAGNETIC
SEMICONDUCTORS**

*Govorkova T.E., Okulov V.I., Pamyatnykh E.A., Vaulin A.A.,
Gaviko V.S., Surikov V.T.*

5OT-D-7
12:30

**SOFT MAGNETIC FILMS WITH THE Fe+ZrN
NANOCOMPOSITE STRUCTURE**

Tedzhetov V.A., Sheftel E.N., Harin E.V., Usmanova G.Sh.

15:00-16:30 **Oral Sessions II**

Miscellaneous

Chairman: Oblakul KUVANDIKOV

5OT-A-7
15:00

**THE FERROMAGNETIC PROPERTIES OF EUROPIUM AND
GADOLINIUM ATOMS IN SILICON**

Zikrillaev N.F., Mavlonov G.H., Isamov S.B., Abduganiev Y.A., Kushiev G.A., Nematov O.S.

- 5OT-A-8 **ANISOTROPIC MAGNETORESISTANCE OF GaMnAs:Be**
15:15 *Parchinskij P.B., Gazizulina A.S., Nasirov A.A., Yuldashev Sh.U.*
- 5OT-A-9 **HALL EFFECT IN AMORPHOUS
FERROMAGNETIC ALLOYS**
15:30 *Kuvandikov O., Subkhankulov I., Razhabov R.M., Khomitov Sh.A., Bakaev G.S.*
- 5OT-A-10 **MAGNETO–OPTIC FARADAY EFFECT OF CoFe₂O₄ BASED
FERROFLUIDS**
15:45 *Kuvandikov O.K., Razhabov R.M., Imamnazarov D.H., Salakhitdinova M.K., Kirgizov S.E.*
- 5OT-A-11 **TRANSPORT PROPERTIES OF IRON-SILICON DIOXIDE-
COMPENSATED SILICON HYBRID STRUCTURES**
16:00 *Arzikulov E.U., Salakhitdinov F.A., Nurimov A.D., Ashirov U.A., Sharafova T.S. and Usanov R.M.*
- 5OT-A-12 **EFFECT OF MAGNETIC FIELD ON EXCITATION
CONDITIONS AND CURRENT AUTO-OSCILLATION
PARAMETERS IN SILICON DOPED WITH SELENIUM ATOMS**
16:15 *Zikrillaev N.F., Shoabdurakhimova M.M., Bobonov D., Nematov O.S.*

Magnetism and Superconductivity

Chairman: Elvira IBRAGIMOVA

- 5IT-B-7 **PROXIMITY EFFECTS AT
SUPERCONDUCTOR/ANTIFERROMAGNET INTERFACES**
15:00 *Bobkova I.V., Bobkov G.A., Bobkov A.M., Kamra A., Chourasia S., Johnsen Kamra L., Gordeeva V.M., Golubov A.A.*
- 5IR-B-8 **PROXIMITY EFFECTS AT SUPERCONDUCTING AND
FERROMAGNETIC HETEROSTRUCTURES**
15:30 *Zhaketov V.D.*
- 5IR-B-9 **PROGRESS IN RFTES DETECTOR TECHNOLOGY**
15:45 *Shitov S.*
- 5IR-B-10 **DIOD EFFECT IN SUPERCONDUCTOR-FERROMAGNET
STRUCTURES**
16:00 *Uspenskaya L.S.*
- 5OT-B-11 **INFLUENCE OF MAGNONS ON THE
SUPERCONDUCTING STATE I SUPERCONDUCTOR-
MAGNET HETEROSTRUCTURES**
16:15 *Yanovskaia A.S., Bobkov A.M., Bobkova I.V.*

Multiferroics

Chairman: Zukhra GAREEVA

- 5IT-C-5 **HIERARCHY OF INTERACTIONS IN DZYALOSHINSKII-
MORIYA HELIMAGNETS AND SKYRMION LATTICE**
15:00 *Grigoriev S.V.*

5IT-C-6
15:30

**OPERANDO SYNCHROTRON STUDIES OF
MAGNETOELECTRIC COUPLING
AT THE FM/FE-HfO₂ INTERFACE (FM= Co-Ni, Pt-Fe, EuS)**
Zenkevich A.

5OT-C-7
16:00

**THE IRON GARNET STRIPE DOMAIN STRUCTURE
“REFRACTION” EFFECT AT THE ELECTRODE
LOCATION**
Nikolaeva E.P., Podkletnova A.A., Kolyushenkov M.A., Kaminskiy A.S., Pyatakov A.P.

5OT-C-8
16:15

**MAGNETOELECTRIC EFFECT IN A COMPOSITE
STRUCTURE PVDF-MAGNETOSTRICTIVE FIBER
COMPOSITE BASED ON AMOPRHOUS MICROWIRES**
Savelev D.V., Fetisov L.Y., Musatov V.I., Fetisov Y.K.

9:00-9:30 **Closing ceremony**

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