



Moscow International Symposium on Magnetism

1-5 July, 2017

Program

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

Main Topics

Spintronics and Magnetotransport
Magnetophotonics
High Frequency Properties and Metamaterials
Magnetic Nanostructures and Low Dimensional Magnetism
Soft and Hard Magnetic Materials
Magnetic Shape-memory Alloys and Magnetocaloric Effect
Magnetic Semiconductors and Oxides
Multiferroics
Magnetism and Superconductivity
Magnetic Soft Matter
Magnetism in Biology and Medicine
Study of Magnetism using X-rays and Neutrons
Theory
Scientific equipment
Topological Insulators
Skyrmions
Magnonics
Magnetophotonics and Ultrafast Magnetism
MRAM

Moscow 2017

Contributors to MISM 2017

Moscow International Symposium on Magnetism expresses its warmest appreciation on the following organizations for their generous support



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Scientific Programme

The official language of MISM is English. It will be used for all printed material and presentations. No translation services will be provided. Saturday, July 1, is the arrival and registration day. The scientific program starts on Sunday, July 2, at 9:30. The program ends on Wednesday, July 5, at 16:00. All registered participants will get the program and the flash memory card with pdf file with abstracts at the conference desk. There are plenary lectures (45 min including discussion) starting at 9:30 every morning, followed by parallel sessions with invited talks (30 min including discussion), invited reports (15 min including discussion), and oral reports (15 min including discussion). The poster contributions should be presented on display from 11:30 till 14:00 and from 17:30 till 19:30.

Proceedings

All authors of talks and poster presentations are welcome to submit the full-length paper for Open access volume of EPJ Web of Conferences (EDP Sciences) (indexed in WoS and Scopus). All invited papers will be published in Journal of Magnetism and Magnetic Materials (Elsevier).

Registration Fees on Site

The standard registration fee of Participant is 400 €. Note that meals, hotel accommodation, Conference Dinner and cultural program are not included in the registration fee. The registration fee of students (100 €) and accompanying persons (50 €) does not include proceedings.

The Organizers have an agreement with the Russian Foundation for Basic Research about financial support for participants from Russia. The registration fee for participants with Russian affiliation is reduced: Participants – 5000 Rubles, Students and PhD students – 3000 Rubles. The reduced fee does not include proceedings.

Meal

The price of the lunch is in a range **4-8 €**. During MISM the small cafeteria will work on the second floor near Central Hall. There are students restaurants in the main building on the second floor (sector A), and ground floor (sectors Б (B) and B(V)). Lunches are available at cafeterias and restaurants of the University campus (see map).

Payment

All payments in Moscow should be made in Russian Rubles. The registration fee can be paid on site during the conference (only cash Euro, US dollars or Rubles will be accepted, NO credit cards). Foreign currencies are easily exchanged to Russian Rubles at exchange agencies in many places in the city, including University campus.

Internet access

The Wi-Fi access will be available in two large auditoriums - Central Hall and North Hall with login mism2017 password 1234567890. The computers for work with presentations and access to Internet will be available in the room 5-42 from 12:00 till 17:00.

Conference Dinner and Cultural Program

We are pleased to welcome you to the Conference Dinner on 3 July at Restaurant Durdin (address: Michurinsky prospect, 8) located near University (price **50€**). The sightseeing tour around Moscow by bus, guide tour around Kremlin, theaters and museums should be booked preliminary. The special cultural program in the MSU campus (Botanic garden, MSU museum) for accompanying persons could be organized (please contact the conference help desk with requests).

Climate

Expected daytime temperatures in period of MISM-2017 vary between 17 and 27 °C. The possibility of rainy weather cannot be excluded.

Map of the Campus of Moscow State University at Lenin Hills (Leninskie Gory)

Faculty of Mechanics and Mathematics, Faculty of Geology, Museum of Earth, and the University Rectorate and administration are located at the **Main Building** of Moscow State University at Lenin Hills.

The following objects are marked with numbers at the map:

1 – **Faculty of Physics;**

2 – Faculty of Chemistry;

3 – First humanities building: Faculty of global processes, Faculty of philology, Faculty of physical chemistry, Faculty of world politics, Graduate school of innovative business (faculty), Interfaculty department of mathematical modelling and computer science, Institute of world cultures, MSU confucius institute, School of contemporary social sciences (faculty), School of state audit (faculty), School of television (faculty), School of translation and interpretation, Bank and currency exchange

4 – Second humanities building: Centre for intensive language instruction, Centre for social sciences, Faculty of computational mathematics and cybernetics, Faculty of educational studies, School of business administration, Department of Russian Language for Foreign Students, Library for Natural Sciences

5 – Faculty of Biology, Faculty of Soil Science, Institute of environmental soil science, International research centre for biochemical technology

6 – Faculty of Sociology, Faculty of military training

7 – Skobeltsyn research institute for Nuclear Physics

8 – **Nonlinear Optics Laboratory, International Laser Center**

9 – P.K. Shternberg astronomical institute

10 – **Low Temperature Physics Building**

11 – Laboratory of High-Energy Physics

12 – Laboratory of the Skobeltsyn Institute (No. 19)

13 – Faculty of Economics

14 – Laboratory of the Skobeltsyn Institute (No. 20)

15 – **Laboratory of Gydrophysics**

16 – **Center of Physical Research**

17 – Research Computational Center

18 – Research Institute of Mechanics

19 – M.V. Lomonosov Monument

20 – The Great Patriotic War II Memorial

21 – Polyclinic, pharmacy

22 – Faculty of law

23 – MSU Restaurant N8

24 – MSU Restaurant N10

25 – Bank, Currency Exchange;

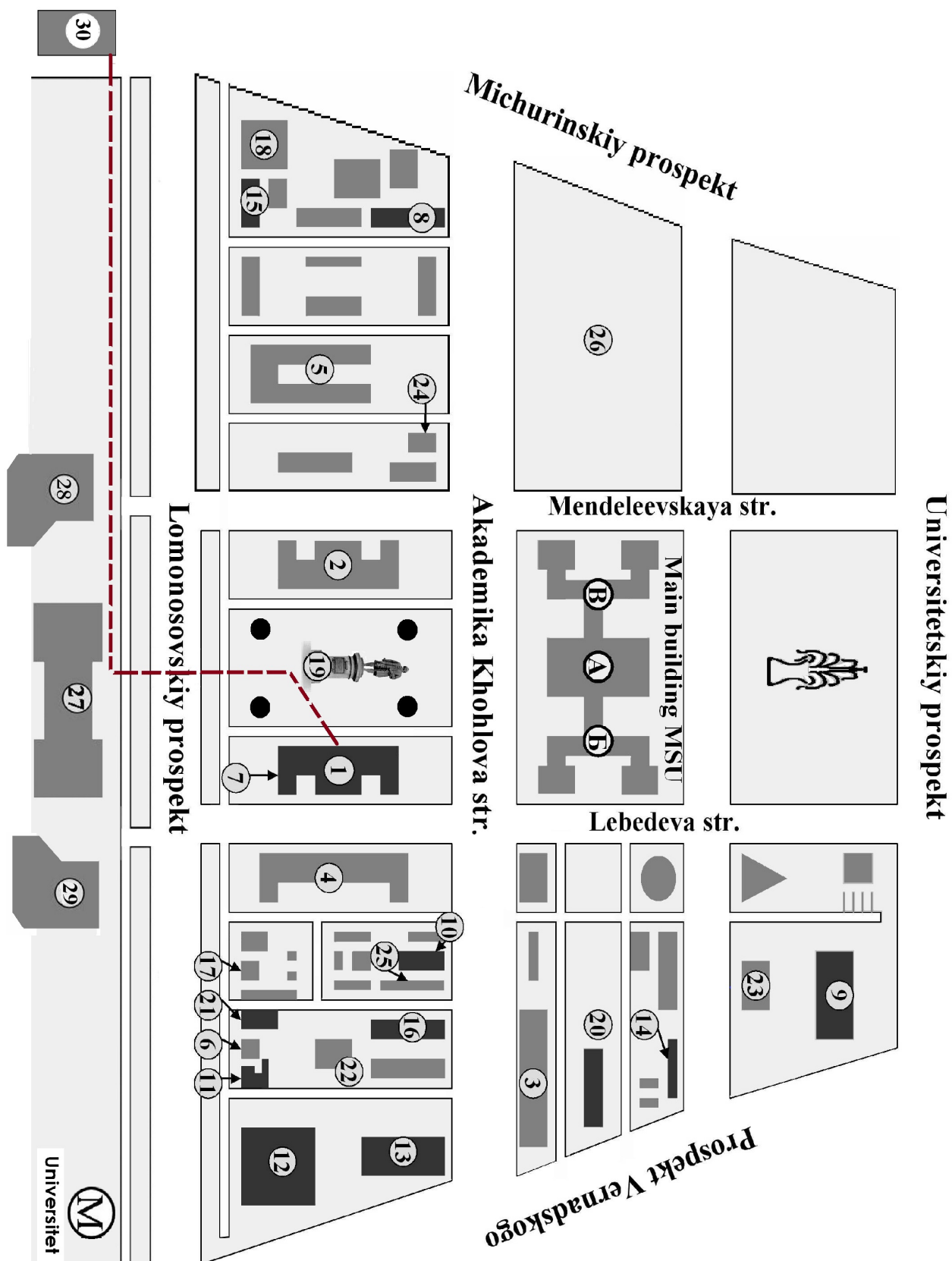
26 – Botanical Garden;

27 – MSU Academic Library

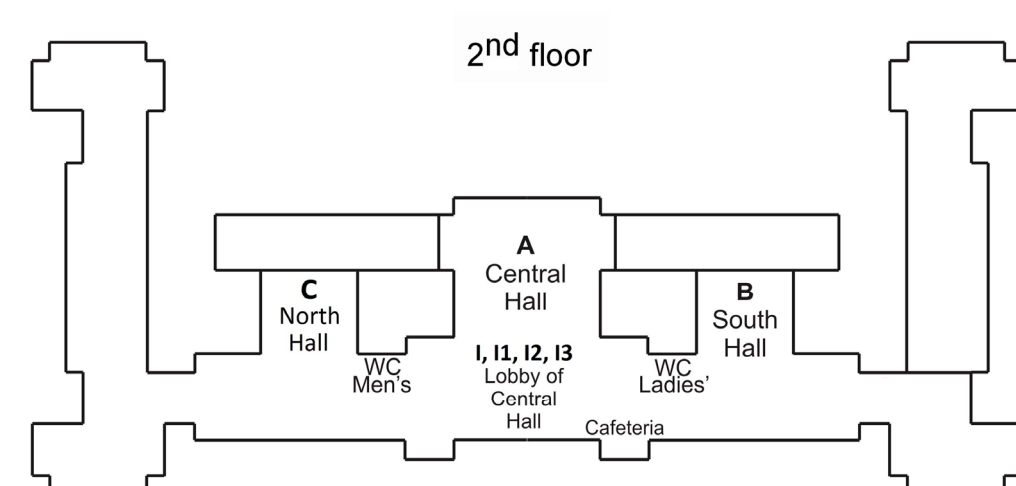
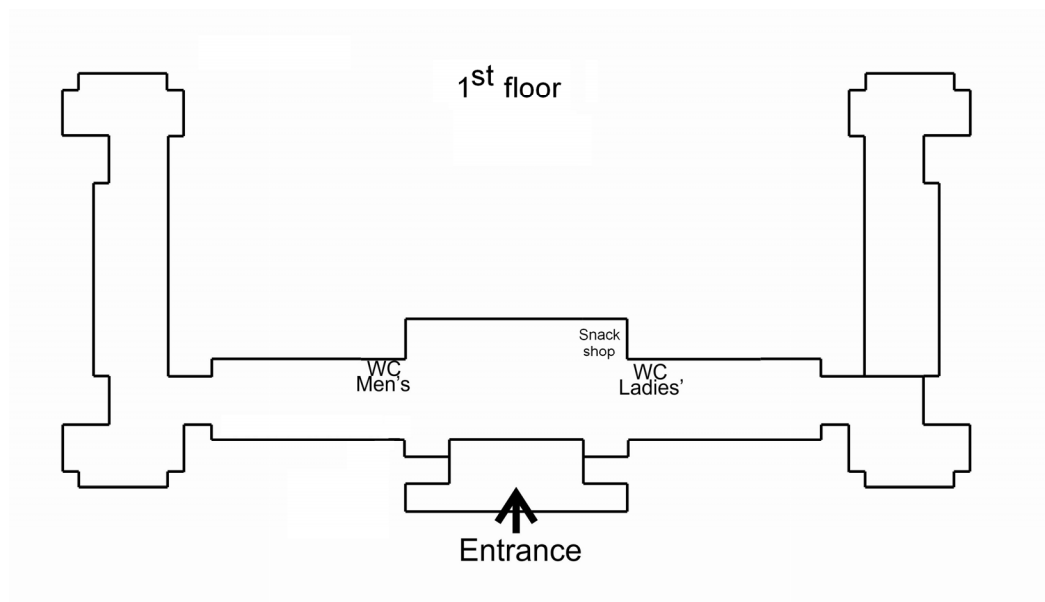
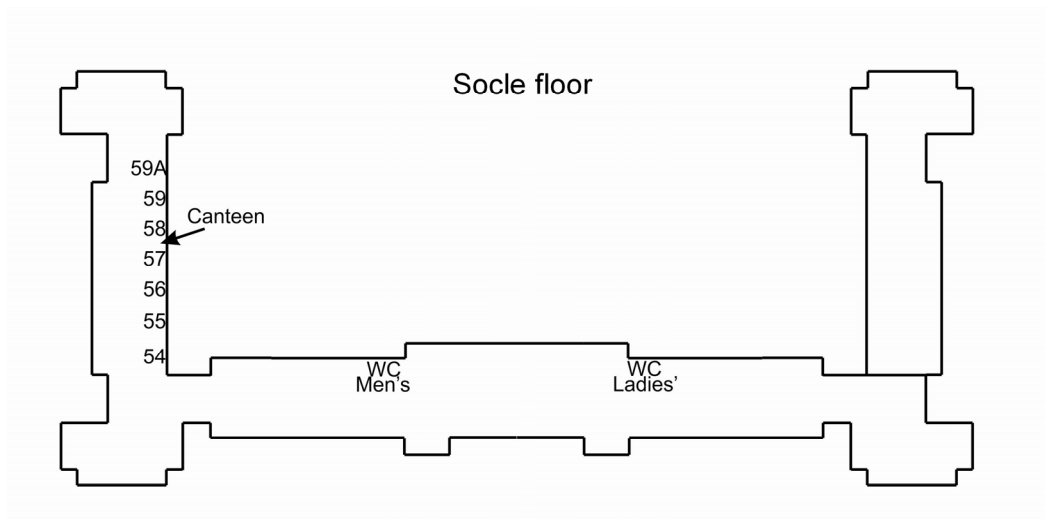
28 – Shuvalov building

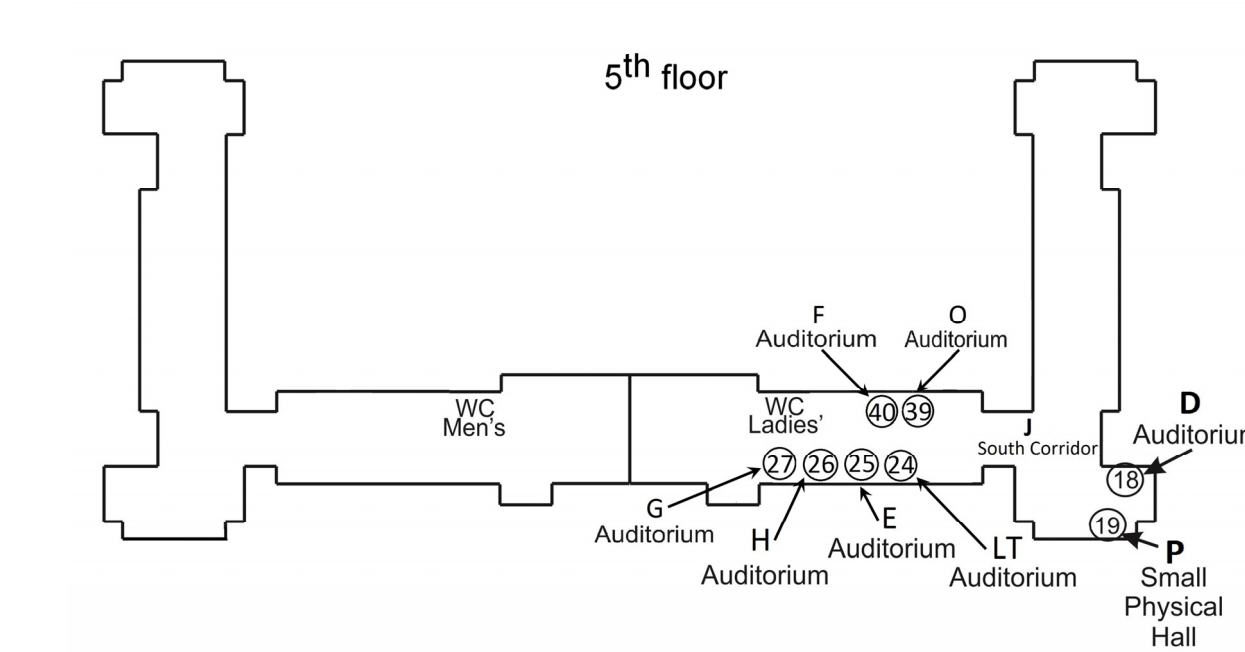
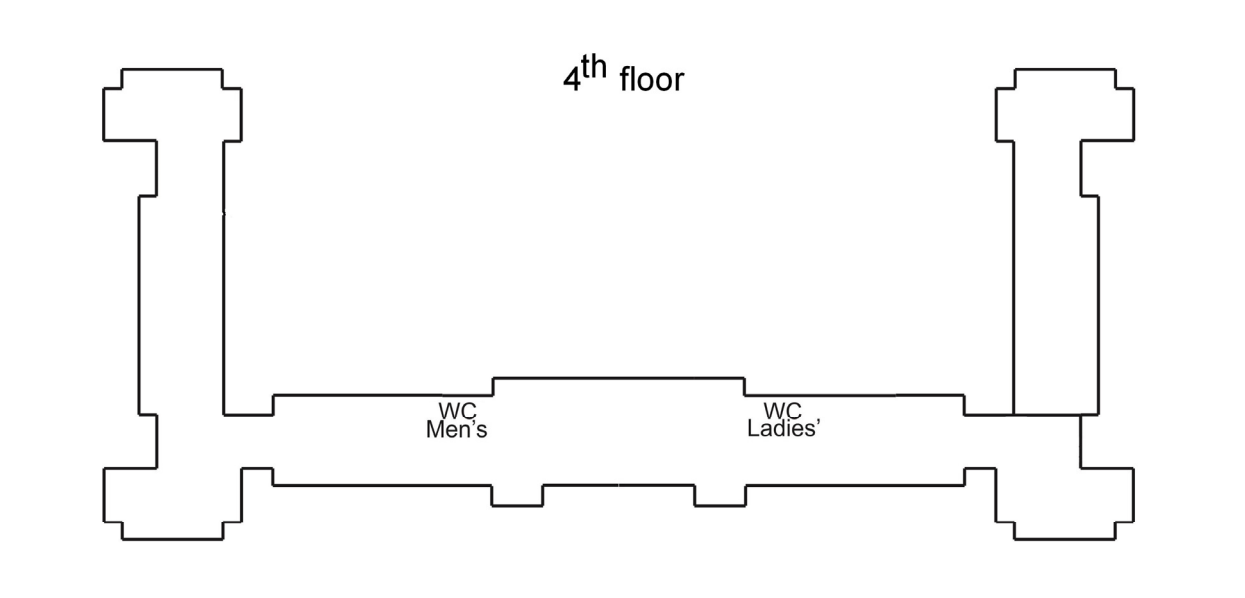
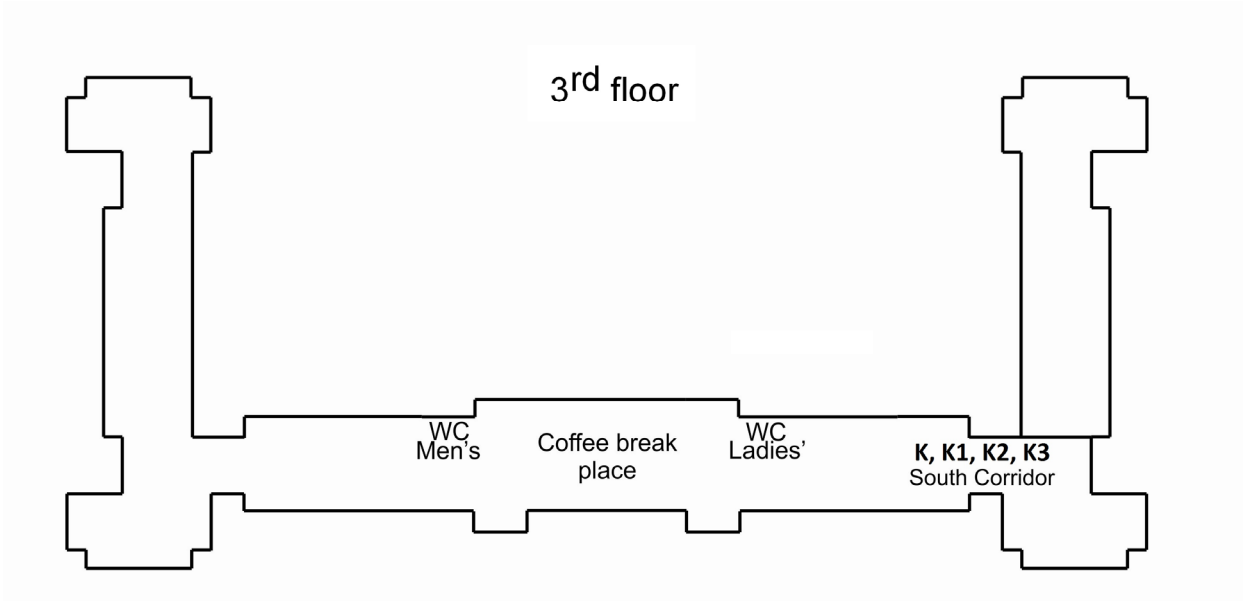
29 – Lomonosov building

30 – **Restaurant Durdin (Conference Dinner)**



Plan of Faculty of Physics





CONTENTS

CONFERENCE SCHEDULE	13
2 JULY, SUNDAY	28
PLENARY LECTURES	28
ORAL SESSION	28
<i>Spintronics and Magnetotransport.....</i>	<i>28</i>
<i>Spintronics and Magnetotransport 2.....</i>	<i>28</i>
<i>Magnetism and Superconductivity</i>	<i>29</i>
<i>Magnetophotonics (Ultrafast)</i>	<i>29</i>
<i>Magnetic Shape Memory and Magnetocaloric Effect</i>	<i>30</i>
<i>Soft and Hard Magnetic Materials.....</i>	<i>30</i>
<i>Magnetism in Biology and Medicine.....</i>	<i>31</i>
<i>Diluted Magnetic Semiconductors and Oxides</i>	<i>31</i>
<i>High Frequency Properties and Metamaterials.....</i>	<i>32</i>
<i>Study of Magnetism using X-rays and Neutrons</i>	<i>32</i>
POSTER SESSION	32
<i>Spintronics and Magnetotransport.....</i>	<i>32</i>
<i>Spintronics and Magnetotransport 2.....</i>	<i>34</i>
<i>Magnetophotonics and Ultrafast Magnetism.....</i>	<i>36</i>
<i>High Frequency Properties and Metamaterials.....</i>	<i>38</i>
ORAL SESSION	41
<i>MRAM.....</i>	<i>41</i>
<i>Soft and Hard Magnetic Materials.....</i>	<i>41</i>
<i>Magnetism and Superconductivity</i>	<i>42</i>
<i>Magnetophotonics</i>	<i>42</i>
<i>Magnetic Shape Memory and Magnetocaloric Effect</i>	<i>43</i>
<i>Magnetism in Biology and Medicine.....</i>	<i>44</i>
<i>Diluted Magnetic Semiconductors and Oxides</i>	<i>44</i>
<i>High Frequency Properties and Metamaterials.....</i>	<i>45</i>
<i>Study of Magnetism using X-rays and Neutrons</i>	<i>46</i>
<i>Theory.....</i>	<i>46</i>
POSTER SESSION	47
<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	<i>47</i>
<i>Magnetic Nanostructures and Low Dimensional Magnetism 2</i>	<i>49</i>
<i>Magnetic Nanostructures and Low Dimensional Magnetism 3</i>	<i>51</i>
<i>Magnetic Nanostructures and Low Dimensional Magnetism 4</i>	<i>53</i>
3 JULY, MONDAY	56
PLENARY LECTURES	56
ORAL SESSION	56
<i>Spintronics and Magnetotransport.....</i>	<i>56</i>
<i>Diluted Magnetic Semiconductors and Oxides</i>	<i>56</i>
<i>Magnetism and Superconductivity</i>	<i>57</i>
<i>Magnetophotonics and Ultrafast Magnetism.....</i>	<i>57</i>
<i>Multiferroics.....</i>	<i>58</i>
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	<i>58</i>
<i>Study of Magnetism using X-rays and Neutrons</i>	<i>59</i>
<i>Magnetism in Biology and Medicine.....</i>	<i>59</i>
<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	<i>59</i>
<i>High Frequency Properties and Metamaterials.....</i>	<i>60</i>
<i>Low Dimensional Magnetism.....</i>	<i>61</i>
POSTER SESSION	61
<i>Spintronics and Magnetotransport.....</i>	<i>61</i>
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	<i>62</i>
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	<i>64</i>
<i>Magnetism in Biology and Medicine.....</i>	<i>65</i>
<i>Magnetism and Superconductivity</i>	<i>67</i>
<i>Magnetophotonics and Ultrafast Magnetism.....</i>	<i>69</i>
ORAL SESSION	70

<i>Spintronics and Magnetotransport</i>	70
<i>Soft and Hard Magnetic Materials</i>	71
<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	72
<i>Magnetism and Superconductivity</i>	73
<i>Magnonics</i>	74
<i>Multiferroics</i>	75
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	76
<i>Study of Magnetism using X-rays and Neutrons</i>	77
<i>Magnetism in Biology and Medicine</i>	77
<i>Magnetic Shape Memory and Magnetocaloric Effect</i>	78
<i>Low Dimensional Magnetism</i>	79
4 JULY, TUESDAY	81
PLENARY LECTURES	81
ORAL SESSION	81
<i>Spintronics and Magnetotransport</i>	81
<i>Skyrmions</i>	81
<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	82
<i>Magnetism and Superconductivity</i>	82
<i>Topological Insulators</i>	83
<i>Multiferroics</i>	83
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	84
<i>Scientific equipment</i>	84
<i>Magnetism in Biology and Medicine</i>	84
<i>Theory</i>	85
<i>Low Dimensional Magnetism</i>	85
POSTER SESSION	86
<i>Soft and Hard Magnetic Materials</i>	86
<i>Soft and Hard Magnetic Materials 2</i>	88
<i>Soft and Hard Magnetic Materials 3</i>	90
<i>Magnetic Shape Memory and Magnetocaloric Effect</i>	92
ORAL SESSION	95
<i>Spintronics and Magnetotransport</i>	95
<i>Spintronics and Magnetotransport 2</i>	95
<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	96
<i>Magnetism and Superconductivity</i>	97
<i>Magnetism and Superconductivity 2</i>	98
<i>Topological Insulators</i>	99
<i>Multiferroics</i>	99
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	100
<i>Diluted Magnetic Semiconductors and Oxides</i>	101
<i>Magnetophotonics and Ultrafast Magnetism</i>	102
<i>Theory</i>	103
POSTER SESSION	104
<i>Diluted Magnetic Semiconductors and Oxides</i>	104
<i>Diluted Magnetic Semiconductors and Oxides 2</i>	106
<i>Multiferroics</i>	108
<i>Theory</i>	110
5 JULY, WEDNESDAY	112
PLENARY LECTURES	112
ORAL SESSION	112
<i>Spintronics and Magnetotransport</i>	112
<i>Soft and Hard Magnetic Materials</i>	112
<i>Magnetophotonics and Ultrafast Magnetism</i>	113
<i>Magnetism and Superconductivity</i>	113
<i>Skyrmions</i>	114
<i>Diluted Magnetic Semiconductors and Oxides</i>	114
<i>Magnetic Soft Matter (magnetic polymers, fluids and suspensions)</i>	115
<i>Multiferroics</i>	115
<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	116
<i>Study of Magnetism using X-rays and Neutrons</i>	117
POSTER SESSION	117

<i>Magnetic Nanostructures and Low Dimensional Magnetism</i>	<i>117</i>
<i>Study of Magnetism using X-rays and Neutrons</i>	<i>119</i>
<i>Multiferroics.....</i>	<i>120</i>
<i>High Frequency Properties and Metamaterials.....</i>	<i>121</i>
<i>Magnetic Shape Memory and Magnetocaloric Effect.....</i>	<i>123</i>
<i>Magnonics.....</i>	<i>123</i>
<i>Diluted Magnetic Semiconductors and Oxides</i>	<i>124</i>
PLENARY LECTURES	124
AUTHOR INDEX.....	125

Conference Schedule

1 July (Saturday)

09:00 – 18:00	Registration (Faculty of Physics, Moscow State University)
18:00 – 20:00	Welcome Party

2 July (Sunday)

	A – Central Hall
09:30 – 10:00	Opening ceremony
10:00 – 10:45	Chairperson: Anatoly VEDYAYEV Plenary Talk (2PL-A-1), Stuart PARKIN
10:45 – 11:30	Plenary Talk (2PL-A-2), Roy CHANTRELL

11:30 – 12:00 Coffee break

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25
	Spintronics and Magnetotransport Chairperson: Anatoly VEDYAYEV	Soft and Hard Magnetic Materials Chairperson: Nikolay MUSHNIKOV	Magnetophotonics (Ultrafast) Chairperson: Mitsuteru INOUE	Magnetism and Superconductivity Chairperson: Vladimir PUDALOV	Magnetic Shape Memory and Magnetocaloric Effect Chairperson: Alexander TISHIN
12:00 – 12:30	(2TL-A-1) Xiaofeng JIN	(2TL-B-1) George HADJIPANAYIS	(2TL-C-1) Theo RASING	(2TL-D-1) Jan AARTS	(2TL-E-1) Yury SPICHKIN
12:30 – 13:00	(2TL-A-2) Qian NIU	(2TL-B-2) Tetsuya NAKAMURA	(2TL-C-2) Andrzej STUPAKIEWICZ	(2TL-D-2) Marco APRILI	(2TL-E-2) Konstantin SKOKOV
13:00 – 13:30	(2TL-A-3) Henri-Jean DROUHIN	(2TL-B-3) Dmitry BERKOV	(2TL-C-3) Sergey NIKITOV	(2RP-D-3) Torsten PIETSCH (2OR-D-4) Simon DIESCH	(2TL-E-3) Xiao XU
13:30 – 14:00			(2TL-C-4) Dmitri YAKOVLEV		

	F Auditorium 5-40	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)
	Magnetism in Biology and Medicine Chairperson: Galina KURLYANDSKAYA	Diluted Magnetic Semiconductors and Oxides Chairperson: Igor ROZHANSKY	High Frequency Properties and Metamaterials Chairperson: Larissa PANINA	Study of Magnetism using X-rays and Neutrons Chairperson: Serguei MOLODTSOV	Spintronics and Magnetotransport 2 Chairperson: Alan KALITSOV
12:00 – 12:30	(2TL-F-1) Irena MARKOVIC MILOSEVIC	(2TL-G-1) Vladimir KORENEV	(2TL-H-1) Ferran MARTÍN	(2TL-O-1) Sergey GRIGORIEV	(2RP-P-1) Vyacheslav MARCHENKOV (2OR-P-2) Parul PANDEY
12:30 – 13:00	(2TL-F-2) Alexander SAFRONOV	(2RP-G-2) Alexei BOURAVLEUV (2OR-G-3) Andre HENRIQUES	(2TL-H-2) Mikhail LAPINE	(2TL-O-2) Fabrice WILHELM	(2OR-P-3) Aleksandra TITOVA (2OR-P-4) Sergej ANDREEV
13:00 – 13:30	(2TL-F-3) Antonio FIGUEIREDO NETO	(2OR-G-4) Irina FEDORCHENKO (2OR-G-5) Sergei OBUKHOV	(2TL-H-3) Anna RADKOVSKAYA	(2RP-O-3) Katharina OLLEFS (2RP-O-4) Kotaro SAITO	(2OR-P-5) Pavel STREMOUKHOV (2OR-P-6) Oksana KOPLAK

Poster sessions (12:00 – 14:00)			
Spintronics and Magnetotransport Chairperson: Natalia RYZHANOVA	Spintronics and Magnetotransport 2 Chairperson: Mikhail ZHURAVLEV	Magnetophotonics and Ultrafast Magnetism Chairperson: Elena GAN'SHINA	High Frequency Properties and Metamaterials Chairperson: Sergey STAROSTENKO
2PO - I1	2PO - I	2PO - J	2PO - K
I1 Lobby of Central Hall	I Lobby of Central Hall	J Fifth Floor, South Corridor	K Third floor, South Corridor

13:30 - 15:00

Lunch time

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25
	MRAM Chairperson: Konstantin ZVEZDIN	Soft and Hard Magnetic Materials Chairperson: Dmitry BERKOV	Magnetophotonics Chairperson: Roman PISAREV	Magnetism and Superconductivity Chairperson: Shiro KAWABATA	Magnetic Shape Memory and Magnetocaloric Effect Chairperson: Vasily BUCHELNIKOV
15:00 – 15:30	(2TL-A-4) Alexey KHVALKOVSKIY	(2TL-B-4) Andreas MICHELS	(2TL-C-5) Andrey FEDYANIN	(2TL-D-5) Wolfgang BELZIG	(2TL-E-4) Yuri KOSHKIDKO
15:30 – 16:00	(2TL-A-5) Ricardo SOUSA	(2RP-B-5) Masaaki FUTAMOTO	(2RP-C-6) Alexander BARYSHEV	(2TL-D-6) Carmine ATTANASIO	(2OR-E-5) Takumi KIHARA
		(2OR-B-6) Mitsuru OHTAKE	(2RP-C-7) Alexander MERZLIKIN		(2OR-E-6) Dan NGUYEN
16:00 – 16:30	(2TL-A-6) Dmytro APALKOV	(2OR-B-7) Dongsoo KIM	(2RP-C-8) Hironaga UCHIDA	(2TL-D-7) Lenar TAGIROV	(2TL-E-7) Akhmed ALIEV
		(2OR-B-8) Sergey EROKHIN	(2RP-C-9) Yuichi NAKAMURA		
16:30 – 17:00	(2TL-A-7) Yiming HUAI	(2OR-B-9) Nikolai BARANOV	(2RP-C-10) TAKAYUKI ISHIBASHI	(2OR-D-8) Nataliya PUGACH	(2RP-E-8) Sergey TASKAEV
		(2OR-B-10) Ivan TITOV	(2OR-C-11) Ngoc Minh TRAN	(2OR-D-9) Dennis HEIM	(2RP-E-9) Vladimir SOKOLOVSKIY
17:00 – 17:15			(2RP-C-12) Tatiana MURZINA	(2OR-D-10) Konstantin ARUTYUNOV	

	F Auditorium 5-40	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)
	Magnetism in Biology and Medicine Chairperson: Irena MARKOVIC MILOSEVIC	Diluted Magnetic Semiconductors and Oxides Chairperson: Boris ARONZON	High Frequency Properties and Metamaterials Chairperson: Anna RADKOVSKAYA	Study of Magnetism using X-rays and Neutrons Chairperson: Andrei ROGALEV	Theory Chairperson: Sergei OVCHINNIKOV
15:00 – 15:30	(2TL-F-4) Stadler BETHANIE	(2TL-G-6) Igor ROZHANSKY	(2TL-H-4) Masahiro YAMAGUCHI	(2TL-O-5) Matteo MANNINI	(2TL-P-7) Eugenius IVCHENKO
15:30 – 16:00	(2TL-F-5) Felix BLYAKHMAN	(2RP-G-7) Erkki LAHDERANTA	(2RP-H-5) Larissa PANINA	(2TL-O-6) Serguei MOLODTSOV	(2OR-P-8) Sergey BRENER
		(2OR-G-8) Chi XU	(2OR-H-6) Nikita BUZNIKOV		(2RP-P-9) Petr IGOSHEV
16:00 – 16:30	(2TL-F-6) Cheol KIM	(2OR-G-9) KONSTANTIN MOISEEV	(2RP-H-7) Aleksi OSIPOV	(2OR-O-7) Wei BAO	(2OR-P-10) Nikolai MELNIKOV
		(2OR-G-10) Anna POGREBNA	(2RP-H-8) Evgenie VYZULIN	(2RP-O-8) Verena NEY	(2RP-P-11) Alexei SHERMAN
16:30 – 17:00	(2OR-F-7) Nataliya GUTENEVA	(2OR-G-11) Roman MORGUNOV	(2RP-H-9) Sergey STAROSTENKO	(2OR-O-9) Mikhail PLATUNOV	(2OR-P-12) Zaur ALISULTANOV
	(2OR-F-8) Zhen YANG	(2OR-G-12) Evgeniy DEMIDOV	(2OR-H-10) Pavel PETROV	(2RP-O-10) Alevtina SMEKHOVA	(2OR-P-13) Petr POLYAKOV

17:00 – 17:30

Coffee break

17:30

Meeting of Magnetic Society of Russia (A – Central Hall)

Poster sessions (17:30 – 19:00)			
Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Elena SHALYGINA	Magnetic Nanostructures and Low Dimensional Magnetism 2 Chairperson: Victor ZUBOV	Magnetic Nanostructures and Low Dimensional Magnetism 3 Chairperson: Valeriy PRUDNIKOV	Magnetic Nanostructures and Low Dimensional Magnetism 4 Chairperson: Oksana KOPLAK
2PO-I1	2PO-J	2PO-K	2PO-I
I1 Lobby of Central Hall	J Fifth Floor, South Corridor	K Third floor, South Corridor	I Lobby of Central Hall

3 July (Monday)

	A – Central Hall
	Chairperson: Anatoly ZVEZDIN
09:30 – 10:15	Plenary Talk (3PL-A-1), Oliver GUTFLEISCH
10:15 – 11:00	Plenary Talk (3PL-A-2), Sergej DEMOKRITOV

11:00 – 11:30 Coffee break

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25	F Auditorium 5-40
	Spintronics and Magnetotransport Chairperson: Sergey DEMISHEV	Diluted Magnetic Semiconductors and Oxides Chairperson: Sergey STRELTSOV	Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Alexander SAMARDAK	Magnetism and Superconductivity Chairperson: Wolfgang BELZIG	Magnetophotonics and Ultrafast Magnetism Chairperson: Alexandra KALASHNIKOVA	Multiferroics Chairperson: Vladimir PREOBRAZHENSKY
11:30 – 12:00	(3TL-A-1) Rie MATSUMOTO	(3TL-B-1) Daniil KHOMSKII	(3TL-C-1) Olivier FRUCHART	(3TL-D-1) Vladimir PUDALOV	(3TL-E-1) Vasily TEMNOV	(3TL-F-1) Siddharth SAXENA
12:00 – 12:30	(3TL-A-2) Shinji YUASA	(3TL-B-2) Sumio ISHIHARA	(3TL-C-2) Jürgen FASSBENDER	(3TL-D-2) Gavin BURNELL	(3OR-E-2) Alexey SALASYUK	(3OR-F-2) Alexander PYATAKOV
					(3TL-E-3) Vladimir BELOTELOV	(3RP-F-3) Zukhra GAREEVA
12:30 – 13:00	(3TL-A-3) Atsufumi HIROHATA	(3OR-B-3) Liudmila GONCHAR	(3TL-C-3) Armin KLEIBERT	(3TL-D-3) Victor PETRASHOV	(3RP-E-4) Rostislav MIKHAYLOVSKIY	(3OR-F-4) Petr KARPOV
		(3RP-B-4) Kliment KUGEL				(3OR-F-5) Oleg UDALOV
13:00 – 13:15	(3RP-A-11) Teruo ONO	(3RP-B-5) Antonio BIANCONI	(3RP-C-4) Yurii USPENSKII		(3RP-E-5) Oleg IVANOV	

	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)	LT Auditorium 5-24
	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) Chairperson: Pavel KUZHIR	Study of Magnetism using X-rays and Neutrons Chairperson: Sergey GRIGORIEV	Magnetism in Biology and Medicine Chairperson: Jurgen KOSEL	High Frequency Properties and Metamaterials Chairperson: Konstantin ROZANOV	Low Dimensional Magnetism Chairperson: Vasiliy GLAZKOV
11:30 – 12:00	(3TL-G-1) Alexey IVANOV	(3TL-H-1) Aleksandr CHUMAKOV	(3TL-O-1) Anna ROIG	(3OR-P-1) Vladimir VLASOV (3OR-P-2) Denis TSIKALOV	(3TL-LT-1) Alexander VASILIEV
12:00 – 12:30	(3TL-G-2) Andrejs CEBERS	(3TL-H-2) Kristiaan TEMST	(3TL-O-2) Marco COISSON	(3OR-P-3) Sergey ODINTSOV (3OR-P-4) Valentin SAKHAROV	(3TL-LT-2) Leonid SVISTOV
12:30 – 13:00	(3TL-G-3) Régine PERZYNSKI	(3TL-H-3) Igor ABRIKOSOV	(3TL-O-3) Alexander TISHIN	(3OR-P-5) Alexey SEMENO (3OR-P-6) Samane KALHOR	(3OR-LT-3) Yuri KUDASOV (3OR-LT-4) Alexander SMIRNOV
13:00 – 13:15				(3OR-P-7) Stanislav BOBROVSKII	

Poster sessions (12:00 – 14:00)					
Spintronics and Magnetotransport Chairperson: Nikita STRELKOV	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) Chairperson: Victor STEPANOV	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) 2 Chairperson: Victor STEPANOV	Magnetism in Biology and Medicine Chairperson: Petr NIKITIN	Magnetism and Superconductivity Chairperson: Yurii PROSHIN	Magnetophotonics and Ultrafast Magnetism Chairperson: Tatiana SHAPAEVA
3PO - I1	3PO - J	3PO - I3	3PO - K	3PO - I	3PO - I2
I1 Lobby of Central Hall	J Fifth Floor, South Corridor	I3 Lobby of Central Hall	K Third floor, South Corridor	I Lobby of Central Hall	I2 Lobby of Central Hall

13:00 - 14:30

Lunch time

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25	F Auditorium 5-40
	Spintronics and Magnetotransport Chairperson: Andrey STASHKEVICH	Soft and Hard Magnetic Materials Chairperson: Yury PASTUSHENKOV	Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Yurii USPENSKII	Magnetism and Superconductivity Chairperson: Edward GOLDOBIN	Magnonics Chairperson: Sergej DEMOKRITOV	Multiferroics Chairperson: Sebastiaan VAN DIJKEN
14:30 – 15:00	(3TL-A-4) Azzedine BOUSSEKSOU	(3TL-B-6) Nikolay MUSHNIKOV	(3OR-C-5) Michael KOROTIN (3OR-C-6) Stanislav YAKUSHKIN	(3RP-D-4) Mikhail KUPRIYANOV (3OR-D-5) Sergey BAKURSKIY	(3TL-E-6) Volodymyr KRUGLYAK	(3TL-F-6) Je-Geun PARK
15:00 – 15:30	(3TL-A-5) Hyunsoo YANG	(3OR-B-7) Telem ŞİMŞEK (3OR-B-8) Jonathan EHLER	(3RP-C-7) Alexander SAMARDAK (3RP-C-8) S. U. JEN	(3OR-D-6) Andrey SCHEGOLEV (3TL-D-7) Yukio TANAKA	(3TL-E-7) Yury BUNKOV (3RP-E-8) Valentine NOVOSAD	(3TL-F-7) Evgeny TSYMBAL (3TL-F-8) Holger MEYERHEIM
15:30 – 16:00	(3RP-A-6) Alan KALITSOV (3RP-A-7) Lamprini FRANGOU	(3TL-B-9) Andrey SVALOV	(3RP-C-9) Kira VOSTRIKOVA (3OR-C-10) Ulf WIEDWALD	(3OR-D-8) Anatoly MAL'SHUKOV	(3RP-E-9) Taichi GOTO	
16:00 – 16:30	(3TL-A-8) Sergey DEMISHEV	(3RP-B-10) Nikolai ERSHOV (3OR-B-11) Vasily KRYLOV	(3OR-C-11) Armen KOCHARIAN (3OR-C-12) Pavel PRUDNIKOV	(3OR-D-9) Daniel LENK (3RP-D-10) Ludmila USPENSKAYA	(3OR-E-13) Dmitry KALYABIN (3OR-E-11) Sergey OSOKIN	(3OR-F-9) Alok SHUKLA (3OR-F-10) Alexei BELIK
16:30 – 17:00	(3RP-A-9) Andrey KNIZHNIK (3RP-A-10) Galina LVOVA	(3OR-B-12) Sergey MAKLAKOV (3OR-B-13) Arcady ZHUKOV	(3OR-C-13) Ilya MISHCHENKO (3OR-C-14) Tahmineh MOHAMMAD ALI ZADEH	(3RP-D-11) Ilgiz GARIFULLIN (3OR-D-12) Yulii KISLINSKII	(3OR-E-12) Anton GOLOV	(3OR-F-11) Aidar NUGUMANOV (3OR-F-12) Dmitry KARPINSKY
17:00 – 17:30		(3RP-B-14) Ruslan SALIKHOV (3RP-B-15) Valeria RODIONOVA		(3RP-D-13) Chih-Wei LUO (3OR-D-14) Dmitry DZEBISASHVILI		

	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)	LT Auditorium 5-24
	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) Chairperson: Alexey IVANOV	Study of Magnetism using X-rays and Neutrons Chairperson: Andreas MICHELS	Magnetism in Biology and Medicine Chairperson: Alexander SAFRONOV	Magnetic Shape Memory and Magnetocaloric Effect Chairperson: Victor KOLEDV	Low Dimensional Magnetism Chairperson: Alexander SMIRNOV
14:30 – 15:00	(3OR-G-4) Mikhail KRAKOV (3OR-G-5) Michela RONTI	(3TL-H-4) Sebastian MUEHLBAUER	(3TL-O-4) Raluca Maria FRATILA	(3TL-P-8) Vasily BUCHELNIOV	(3TL-LT-5) Angela MÖLLER
15:00 – 15:30	(3OR-G-6) Erik SIEBERT (3OR-G-7) Anastasiia STOROZHENKO	(3TL-H-5) Philipp BENDER	(3TL-O-5) Valentin IRKHIN	(3RP-P-9) Andrey FRAERMAN (3OR-P-10) Pavel GEYDT	(3TL-LT-6) Bernd BUECHNER
15:30 – 16:00	(3OR-G-8) Andrey KUZNETSOV (3OR-G-9) Petr RYAPOLOV	(3RP-H-6) Mikhail AVDEEV (3RP-H-7) Thomas SAERBECK	(3TL-O-6) Vladimir NIKIFOROV	(3OR-P-11) Leonid METLOV (3OR-P-12) Elvina DILMIEVA	(3OR-LT-7) Elena POPOVA (3OR-LT-8) Vasiliy GLAZKOV
16:00 – 16:30	(3OR-G-10) Maria ROMODINA (3OR-G-11) Victor STEPANOV	(3OR-H-8) Dominika ZAKUTNA (3OR-H-9) Denis METTUS	(3RP-O-7) Igor KHLUSOV (3OR-O-8) Daniel SHORE	(3OR-P-13) Alexander KAMANTSEV (3OR-P-14) Alexey MASHIROV	(3OR-LT-9) Yulia KRASNIKOVA (3OR-LT-10) Sergei KLIMIN
16:30 – 17:00	(3OR-G-12) Joe DONALDSON (3OR-G-13) Alexandra VINOGRADOVA	(3RP-H-10) Sabrina DISCH (3OR-H-11) Marina ANDREEVA	(3OR-O-9) Ksenia LUKYANENKO (3RP-O-10) Dmitry BALAEV	(3OR-P-15) Mario REIS (3TL-P-16) Vladimir SHAVROV	(3OR-LT-11) Igor DANILOVICH (3OR-LT-12) Ilia NAZARENKO
17:00 – 17:15			(3RP-O-11) Nikolai USOV		

18:00 Conference Dinner (Restaurant Durdin)

4 July (Tuesday)

	A – Central Hall
	Chairperson: Sergej DEMOKRITOV
09:30 – 10:15	Plenary Talk (4PL-A-1), Josep FONTCUBERTA
10:15 – 11:00	Plenary Talk (4PL-A-2), Andrei KIRILYUK

11:00 – 11:30 Coffee break

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25
	Spintronics and Magnetotransport Chairperson: Alexey KHVALKOVSKIY	Skyrmions Chairperson: Andrey FRAERMAN	Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Roman MORGUNOV	Magnetism and Superconductivity Chairperson: Lenar TAGIROV	Topological Insulators Chairperson: Victor TUGUSHEV
11:30 – 12:00	(4TL-A-1) Andrey STASHKEVICH	(4TL-B-1) Oleg TRETIKOV	(4RP-C-1) Vladimir RYLKOV (4RP-C-2) Maxim ILYN	(4TL-D-1) Julia MEYER	(4TL-E-1) Evgueni CHULKOV
12:00 – 12:30	(4TL-A-2) Sebastian WINTZ	(4TL-B-2) Valery UZDIN	(4OR-C-3) Tatiana GAVRILOVA (4OR-C-4) Natalia KAZAK	(4TL-D-2) Shiro KAWABATA	(4TL-E-2) Vikram TRIPATHI
12:30 – 13:00	(4TL-A-3) Shun-Qing SHEN	(4TL-B-3) William LEGRAND	(4OR-C-5) Anatolii PANKRATS (4OR-C-6) Gennady PATRIN	(4RP-D-3) Yakov FOMINOV (4RP-D-4) Igor BURMISTROV	(4TL-E-3) Gregory TEITEL'BAUM
13:00 – 13:30	(4OR-A-4) Wen-Hao CHANG	(4TL-B-4) Michael FARLE			

	F Auditorium 5-40	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)	LT Auditorium 5-24
	Multiferroics Chairperson: Alexander MUKHIN	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) Chairperson: Régine PERZYNSKI	Scientific equipment Chairperson: Artem CHETVERTU-KHIN	Magnetism in Biology and Medicine Chairperson: Marco COISSON	Theory Chairperson: Alexander MOROSOV	Low Dimensional Magnetism Chairperson: Alexander VASILIEV
11:30 – 12:00	(4TL-F-1) Andrei PIMENOV	(4TL-G-1) Marina SAPHIAN - NIKOVA	(4TL-H-1) Yury BUGOSLAVSKY	(4TL-O-1) Helene JOISTEN	(4TL-P-1) Sergei OVCHINNIKOV	(4TL-LT-1) Tanusri SAHA- DASGUPTA
12:00 – 12:30	(4OR-F-2) Dmitry EROFEEV (4OR-F-3) Andrey DROZDOVSKI	(4TL-G-2) Elena KRAMARENKO	(4RP-H-2) Andrey OMIROV (4OR-H-3) Yusuke ODAGIRI	(4TL-O-2) Jurgen KOSEL	(4TL-P-2) Yurii RUDOY	(4TL-LT-2) Kirill POVAROV
12:30 – 13:00	(4OR-F-4) Johan HELLSVIK (4OR-F-5) Sofya GOTOVKO	(4TL-G-3) Sofia KANTOROVICH	(4OR-H-4) Ivan SHISHKIN (4OR-H-5) Ilya URUBKOV	(4RP-O-3) Petr NIKITIN (4RP-O-4) Aleksandr KAMZIN	(4RP-P-3) Georgy SHLYAPNIKOV (4RP-P-4) Arseny SYROMYAT- NIKOV	(4TL-LT-3) Masahiko ISOBE
13:00 – 13:15						(4OR-LT-4) Alexander KURBAKOV

Poster sessions (12:00 – 14:00)			
Soft and Hard Magnetic Materials Chairperson: Irina TERESHINA	Soft and Hard Magnetic Materials 2 Chairperson: Natalia KAZAK	Soft and Hard Magnetic Materials 3 Chairperson: Ivan TITOV	Magnetic Shape Memory and Magnetocaloric Effect Chairperson: Alexey MASHIROV
4PO - I1	4PO - I	4PO – J	4PO - K
I1 Lobby of Central Hall	I Lobby of Central Hall	J Fifth Floor, South Corridor	K Third floor, South Corridor

13:00 - 14:30

Lunch time

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25
	Spintronics and Magnetotransport Chairperson: Vladimir GLUSHKOV	Spintronics and Magnetotransport 2 Chairperson: Vyacheslav MARCHENKOV	Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Maksim SAPOZHNIKOV	Magnetism and Superconductivity Chairperson: Mikhail KUPRIYANOV	Topological Insulators Chairperson: Evgueni CHULKOV
14:30 – 15:00	(4TL-A-5) Jian SHEN	(4OR-B-5) Philippe TALATCHIAN (4OR-B-6) Leonid LUTSEV	(4OR-C-7) Elena MOSTOV - SHCHIKOVA (4OR-C-8) Arseniy BASKAKOV	(4TL-D-5) Tristan CREN	(4TL-E-4) Victor TUGUSHEV
15:00 – 15:30	(4TL-A-6) Alina DEAC	(4TL-B-7) Young Keun KIM	(4OR-C-9) Evgeny KARASHTIN (4OR-C-10) Alexander KOLESNIKOV	(4RP-D-6) Edward GOLDOBIN (4OR-D-7) Tugrul HAKIOGLU	(4TL-E-5) Sergey TARASENKO
15:30 – 16:00	(4TL-A-7) Yoshichika OTANI	(4OR-B-8) Anatoly BELANOVSKY (4OR-B-9) Erkin KULATOV	(4OR-C-11) Julia KOROBOVA (4OR-C-12) Alexey PROSHKIN	(4RP-D-8) Valery VAL'KOV (4RP-D-9) Seiji YUNOKI	(4TL-E-6) Boris ARONZON
16:00 – 16:30	(4OR-A-8) Igor LYAPILIN (4OR-A-9) Nikolay CHECHENIN	(4OR-B-10) Aleksei MIKHAILOV (4OR-B-11) Ekaterina SMELOVA	(4OR-C-13) Igor POPERECHNY (4OR-C-14) Olga MAXIMOVA	(4RP-D-10) Irina BOBKOVA (4OR-D-11) Alexander BOBKOV	(4TL-E-7) Yurii LOZOVIK
16:30 – 17:00	(4TL-A-10) Stephane ANDRIEU	(4OR-B-12) Maksim STEBLIY (4OR-B-13) Alexey OGNEV	(4OR-C-15) Oxana IVANOVA (4OR-C-16) Artem SBOYCHAKOV	(4RP-D-12) Saburo TANAKA	(4RP-E-8) Mikhail OTROKOV (4OR-E-9) Petr PETROV
17:00 – 17:15	(4RP-A-11) Yury SHUKRINOV				

	F Auditorium 5-40	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)	LT Auditorium 5-24
	Multiferroics Chairperson: Alexander PYATAKOV	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) Chairperson: Elena KRAMARENKO	Diluted Magnetic Semiconductors and Oxides Chairperson: Daniil KHOMSKII	Magnetophotonics and Ultrafast Magnetism Chairperson: Tatiana MURZINA	Theory Chairperson: Arseny SYROMYAT - NIKOV	Magnetism and Superconductivity 2 Chairperson: Ilya EREMIN
14:30 – 15:00	(4TL-F-6) Tsuyoshi KIMURA	(4RP-G-4) Dmitry BORIN (4RP-G-5) Peter KOPCANSKY	(4TL-H-6) Sang-Wook CHEONG	(4TL-O-5) Matteo SAVOINI	(4RP-P-5) Alexander MOROSOV (4OR-P-6) Felix KASSAN- OGLY	(4OR-LT-5) Peter SAMUELY (4TL-LT-6) Feodor KUSMARTSEV
15:00 – 15:30	(4TL-F-7) Vladimir PREOBRA - ZHENSKY	(4OR-G-6) Anastasiia BILLER (4OR-G-7) Thomas GUNDERMANN	(4TL-H-7) Vladislav KATAEV	(4TL-O-6) Stéphane MANGIN	(4OR-P-7) Yuri RYBAKOV (4OR-P-8) Yaroslav RODIONOV	(4RP-LT-7) Yurii PROSHIN
15:30 – 16:00	(4TL-F-8) Alexander MUKHIN	(4RP-G-8) Milan TIMKO (4OR-G-9) Malte SCHÜMANN	(4RP-H-8) Peter LEMMENS (4RP-H-9) Andrey TELEGIN	(4OR-O-7) Kiran HORABAIL PRABHAKARA (4OR-O-8) Margarita DAVYDOVA	(4OR-P-9) Natalia ORLOVA (4OR-P-10) Ilija DORONIN	(4OR-LT-8) Lev MAZOV (4OR-LT-9) Marat TIMIRGAZIN
16:00 – 16:30	(4OR-F-9) Dmitry BURDIN (4OR-F-10) Andrey DUBROVSKIY	(4OR-G-10) Anton BAKHTIAROV (4OR-G-11) Oleg STOLBOV	(4OR-H-10) Alexander ULYANOV (4OR-H-11) Alexandra KALASH - NIKOVA	(4TL-O-9) Roman PISAREV	(4OR-P-11) Vladislav SHISHKOV (4OR-P-12) Alexander ROZHKOV	(4OR-LT-10) Karen CONSTAN - TINIAN (4OR-LT-11) Yevgeniy OVCHENKOV
16:30 – 17:00	(4OR-F-11) Sergey APLESNIN (4OR-F-12) Vladimir MEN'SHENIN	(4OR-G-12) Dirk ROMEIS (4OR-G-13) Mikhail VAGANOV	(4RP-H-12) Vyacheslav RYZHOV (4OR-H-13) Irek MUKHA - MEDSHIN	(4RP-O-10) Marina POPOVA (4OR-O-11) Kirill BOLDYREV	(4OR-P-13) Leonid DUBOVSKII (4OR-P-14) Sergey AKSENOV	
17:00 – 17:15			(4OR-H-14) Ernst BAUER	(4OR-O-12) Mikhail ZHURAVLEV		

17:00 – 17:30 Coffee break
 17:30 Meeting of IEEE on Magnetism (A – Central Hall)

Poster sessions (17:30 – 19:30)			
Diluted Magnetic Semiconductors and Oxides Chairperson: Vladislav KATAEV	Diluted Magnetic Semiconductors and Oxides 2 Chairperson: Liudmila GONCHAR	Theory Chairperson: Anatoly ARZHIKOV	Multiferroics Chairperson: Dmitry BURDIN
4PO-II	4PO-I	4PO-K	4PO-J
II Lobby of Central Hall	I Lobby of Central Hall	K Third floor, South Corridor	J Fifth Floor, South Corridor

5 July (Wednesday)

	A – Central Hall Chairperson: Alexey KIMEL
09:30 – 10:15	Plenary Talk (5PL-A-1), Caroline ROSS
10:15 – 11:00	Plenary Talk (5PL-A-2), Satoshi HIROSAWA

11:00 – 11:30 Coffee break

	A Central Hall	B South Hall	C North Hall	D Auditorium 5-18	E Auditorium 5-25
	Spintronics and Magnetotransport Chairperson: Leonid LUTSEV	Soft and Hard Magnetic Materials Chairperson: Nikolay BEBENIN	Magnetophotonics and Ultrafast Magnetism Chairperson: Alexey KIMEL	Magnetism and Superconductivity Chairperson: Gavin BURNELL	Skymions Chairperson: Oleg TRETIKOV
11:30 – 12:00	(5OR-A-1) Mikhail TITOV (5OR-A-2) Danny THONIG	(5TL-B-1) Galina KURLYAND - SKAYA	(5TL-C-1) Markus MÜNZENBERG	(5TL-D-1) Goran KARAPETROV	(5TL-E-1) Paul VAN LOOSDRECHT
12:00 – 12:30	5OR-A-3) Nikita STRELKOV (5OR-A-4) Petr SKIRDKOV	(5OR-B-2) Victor ZUBOV (5RP-B-3) Nataliya KAZANTSEVA	(5TL-C-2) Rajasekhar MEDAPALLI	(5TL-D-2) Ilya EREMIN	(5RP-E-2) Maksim SAPOZHNIKOV (5OR-E-3) Konstantin DENISOV
12:30 – 13:00	(5OR-A-5) Natalia POLZIKOVA	(5OR-B-4) Irina TERESHINA (5OR-B-5) Yury PASTUSHENKOV	(5TL-C-3) Stefan EISEBITT	(5RP-D-3) Kaveh DELFANAZARI (5RP-D-4) Jiunn Yuan LIN	(5RP-E-4) Vladimir GLUSHKOV (5OR-E-5) Evgeny STEPANOV

	F Auditorium 5-40	G Auditorium 5-27	H Auditorium 5-26	O Auditorium 5-39	P Auditorium 5-19 (Small Hall)
	Diluted Magnetic Semiconductors and Oxides Chairperson: Kliment KUGEL	Magnetic Soft Matter (magnetic polymers, fluids and suspensions) Chairperson: Andrejs CEBERS	Multiferroics Chairperson: Holger MEYERHEIM	Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Nikolai USOV	Study of Magnetism using X-rays and Neutrons Chairperson: Alevtina SMEKHOVA
11:30 – 12:00	(5TL-F-1) Sergey STRELTSOV	(5TL-G-1) Pavel KUZHIR	(5TL-H-1) Sebastiaan VAN DIJKEN	(5RP-O-1) Vladimir MIRONOV (5OR-O-2) Nikolay POLUSHKIN	(5TL-P-1) Sergey KOZHEVNIKOV
12:00 – 12:30	(5OR-F-2) Nikolay BEBENIN (5RP-F-3) Alexander RAKHMANOV	(5TL-G-2) Yuriy RAIKHER	(5OR-H-2) Mark AUSLENDER (5OR-H-3) Yuri FETISOV	(5OR-O-3) Arseny SAVITSKY (5OR-O-4) Sergey KOMOGORTSEV	(5RP-P-2) Igor GOLOSOVSKY (5OR-P-3) Aleksandr GOLUBEV
12:30 – 13:00	(5OR-F-4) Elena GAN'SHINA (5RP-F-5) Vyacheslav STORCHAK	(5OR-G-3) Elena MININA (5OR-G-4) Maria BALASOIU	(5OR-H-4) Leonid FETISOV (5OR-H-5) Liudmila MAKAROVA	(5OR-O-5) Natalia DOMRACHEVA (5OR-O-6) Dietmar EBERBECK	(5OR-P-4) Alexander MISTONOV (5OR-P-5) Yury KHAYDUKOV

Poster sessions (12:00 – 14:00)			
Study of Magnetism using X-rays and Neutrons Chairperson: Igor GOLOSOVSKY	High Frequency Properties and Metamaterials Chairperson: Aleksei OSIPOV	Magnetic Nanostructures and Low Dimensional Magnetism Chairperson: Nataliya SVECHKINA	Multiferroics Chairperson: Zukhra GAREEVA
5PO-I1	5PO-J	5PO-I	5PO-I2
I1 Lobby of Central Hall	J Fifth Floor, South Corridor	I Lobby of Central Hall	I2 Lobby of Central Hall

Magnetic Shape Memory and Magnetocaloric Effect Chairperson: Igor RODIONOV	Magnonics Chairperson: Edwin LOCK	Diluted Magnetic Semiconductors and Oxides Chairperson: Irina FEDORCHENKO
5PO-K1	5PO-K2	5PO-K3
K1 Third floor, South Corridor	K2 Third floor, South Corridor	K3 Third floor, South Corridor

13:00 - 14:30 Lunch time

	A – Central Hall
	Chairperson: Sergei OVCHINNIKOV
14:30 – 15:15	Plenary Talk (5PL-A-3), Andrei ROGALEV
15:15 – 16:00	Plenary Talk (5PL-A-4), Igor LYUBUTIN
16:00	Closing ceremony

Session Chairs:

Spintronics and Magnetotransport	M. Zhuravlev, K. Zvezdin, M. Chshiev
Magnetophotonics	A. Kimel, A. Kalashnikova
High Frequency Properties and Metamaterials	K. Rozanov, A. Radkovskaya
Magnetic Nanostructures and Low Dimensional Magnetism	A. Kirilyuk, M. Farle, A. Smirnov, A. Vasiliev
Soft and Hard Magnetic Materials	N. Bebenin, Yu. Pastushenkov, A. Zhukov
Magnetic Shape-memory Alloys and Magnetocaloric Effect	V. Khovailo
Magnetic Semiconductors and Oxides	K. Kugel, B. Aronzon
Multiferroics	A. Pyatakov
Magnetism and Superconductivity	N. Pugach, A. Vasiliev
Magnetic Soft Matter	Yu. Raikher
Magnetism in Biology and Medicine	G. Kurlyandskaya
Study of Magnetism using X-rays and Neutrons	A. Rogalev, A. Michels
Theory	S. Ovchinnikov

2 July, Sunday

9:30-10:00 Opening Ceremony

10:00-11:30

Plenary Lectures

Chairperson: Anatoly VEDYAYEV

2PL-A-1 **SPIN ORBITRONICS FOR ADVANCED MAGNETIC MEMORIES**
10:00 *Parkin S.*

2PL-A-2
10:45

**ALL OPTICAL MAGNETISATION SWITCHING: BASIC PHYSICS AND
POTENTIAL FOR NEW RECORDING TECHNOLOGY**
Chantrell R W.

12:00-13:30

Oral Session

Spintronics and Magnetotransport

Chairperson: Anatoly VEDYAYEV

2TL-A-1
12:00

THE HALL EFFECTS EDWIN HALL NEVER IMAGINED
Jin X

2TL-A-2
12:30

BERRY PHASE EFFECTS ON ORBITAL MAGNETISM
Niu Q.

2TL-A-3
13:00

ANOMALOUS TUNNEL HALL EFFECT: ORBITAL CHIRALITY AND GIANT UNIVERSAL ASYMMETRY
Huong Dang T., Jaffrès H., Erina E., Quang T.D., Hoai Nguyen T.L., Safarov V.I., Drouhin H.-J.

12:00-13:30

Oral Session

Spintronics and Magnetotransport 2

Chairperson: Alan KALITSOV

2RP-P-1
12:00

PECULIARITIES OF THE ELECTRONIC TRANSPORT IN HALF-METALLIC CO-BASED HEUSLER ALLOYS
Marchenkov V.V., Perevozchikova Yu.A., Kourov N.I., Irkhin V.Yu., Eisterer M., Gao T.

20R-P-2
12:15

EFFECT OF LASER FLUENCE ON STRUCTURAL AND MAGNETIC PROPERTIES OF PULSED LASER DEPOSITED $\text{Si}_{1-x}\text{Mn}_x$ ($x \approx 0.5$) FILMS

Pandey P., Drovosekov A.B., Wang M., Xu C., Nikolaev S.N., Chernoglazov K.Yu., Savitsky A.O., Kreines N.M., Cherebilo E.A., Mikhalevsky V.A., Novodvorsky O.A., Tugushev V.V., Rylkov V.V., Helm M., Zhou S.

2OR-P-3
12:30

TUNNELING MAGNETORESISTANCE WITH ZERO-MOMENT HALF-METALLIC $\text{Mn}_2\text{Ru}_x\text{Ga}$

Titova A., Fowley C., Borisov K., Betto D., Lau Y.-C., Thiagarajah N., Atcheson G., Coey J.M.D., Stamenov P.S., Rode K., Lindner J., Faßbender J., Deac A.M.

2OR-P-4
12:45

MAGNETOTRANSPORT IN HYBRID MAGNETIC NANOWIRES

Andreev S., Hartmann R., Pietsch T.

2OR-P-5
13:00

SYNCHRONIZATION OF SPIN TRANSFER VORTEX-BASED NANO-OSCILLATORS BY AN EXTERNAL HARMONIC EXCITATION

Stremoukhov P.A., Safin A.R., Aleshin K.N.

2OR-P-6
13:15

THE DYNAMICS OF REVERSAL MAGNETIZATION IN $\text{CoFeB}/\text{Ta}/\text{CoFeB}$ BILAYER WITH PERPENDICULAR ANISOTROPY

Lvova G.L., Talantsev A.D., Morgunov R.B., Lu Y., Lavanant M., Petit-Watelot S., Koplak O., Mangin S.

12:00-13:30

Oral Session

Magnetism and Superconductivity

Chairperson: Vladimir PUDALOV

2TL-D-1
12:00

SUPERCONDUCTOR-FERROMAGNET DEVICES FOR SUPERSPINTRONICS

Lahabi K., Singh A., Aarts J.

2TL-D-2
12:30

SPECTROSCOPY OF SPIN POLARIZED CHARGE-LESS BOGOLIUBOV QUASIPARTICLES

Kuzmanovic M., Aprili M., Quay C.H.

2RP-D-3
13:00

PROXIMITY-INDUCED JOSEPHSON EFFECTS IN SUPERCONDUCTING SPIN-VALVES

Rudolf M., Thalmann M., Pietsch T.

2OR-D-4
13:15

SCANNING TUNNELING SPECTROSCOPY TO PROBE ODD-TRIPLET CONTRIBUTIONS TO THE LONG-RANGED PROXIMITY EFFECT IN Al-EuS

Diesch S., Wolz M., Sürgers C., Beckman D., Machon P., Belzig W.¹, Scheer E.

12:00-14:00

Oral Session

Magnetophotonics (Ultrafast)

Chairperson: Mitsuteru INOUE

2TL-C-1
12:00

MAGNETISM ON THE TIMESCALE OF THE EXCHANGE INTERACTION

Rasing T.

2TL-C-2
12:30
ULTRAFAST PHOTO-MAGNETIC SWITCHING IN DIELECTRICS
Stupakiewicz A.

2TL-C-3
13:00
**EXPERIMENTAL OBSERVATION OF DOMAIN WALL MOTION
INDUCED BY LASER PUMP-PULSE**
Gerasimov M.V., Logunov M.V., Nikitov S.A., Nozdrin Yu.N., Spirin A.V., Tokman I.D.

2TL-C-4
13:30
**MAGNETIC-FIELD-INDUCED OPTICAL HARMONICS GENERATION IN
DIAMAGNETIC, DILUTED-MAGNETIC, AND MAGNETICALLY-
ORDERED SEMICONDUCTORS**
Yakovlev D.R.

12:00-13:30

Oral Session

Magnetic Shape Memory and Magnetocaloric Effect

Chairperson: Alexander TISHIN

2TL-E-1
12:00
**MEASUREMENT OF THE MAGNETIC AND MAGNETOTHERMAL
PROPERTIES OF HEAVY RARE EARTHS**
Gimaev R.R., Kopeliovich D.B., Spichkin Y.I., Tishin A.M.

2TL-E-2
12:30
**MAGNETOCALORIC MATERIALS: FROM ADVANCED
CHARACTERIZATION TO INDUSTRIAL APPLICATION.**
Skokov K.P., Gutfleisch O.

2TL-E-3
13:00
MARTENSITIC AND MAGNETIC TRANSITIONS IN Co-V-Ga ALLOYS
*Xu X., Nagashima A., Miyake A., Nagasako M., Omori T., Tokunaga M.,
Kanomata T., Kainuma R.*

12:00-13:30

Oral Session

Soft and Hard Magnetic Materials

Chairperson: Nikolay MUSHNIKOV

2TL-B-1
12:00
**THE POTENTIAL OF 1:12 ALLOYS FOR THE DEVELOPMENT OF
RARE EARTH-LEAN MAGNETS**
Hadjipanayis G.C., Gabay A.

2TL-B-2
12:30
**MAGNETIC DOMAIN STRUCTURE AND LOCAL MAGNETIC
PROPERTY OF A Nd-Fe-B SINTERED MAGNET PROBED BY
SCANNING XMCD SPECTROMICROSCOPY**
Nakamura T., Kotani Y., Toyoki K., Billington D., Okazaki H., Hirose S.

2TL-B-3
13:00
**OPTIMIZATION OF PERMANENT MAGNET MATERIALS WITH
RESPECT TO CRYSTALLITE SHAPE AND EXCHANGE COUPLING**
Erokhin S., Berkov D.

12:00-13:30**Oral Session****Magnetism in Biology and Medicine****Chairperson: Galina KURLYANDSKAYA**

2TL-F-1 **MAGNETIC NANOCHAINS: PROPERTIES, SYNTHESIS APPROACHES
AND PROSPECTS**

12:00

Milosevic L., Motte L., Li T., Ren Y., Sun C., Russier V., Saboungi M.-L.

2TL-F-2 **FERROGELS WITH EMBEDDED IRON AND IRON OXIDE
NANOPARTICLES FOR BIOMEDICAL APPLICATIONS**

12:30

Safronov A.P., Shankar A., Mikhnevich E.A., Tyukova I.S., Beketov I.V.

2TL-F-3 **TWO-PHOTON ABSORPTION CROSS SECTION OF MAGNETITE
NANOPARTICLES IN MAGNETIC COLLOIDS AND THIN FILMS**

13:00

*Espinosa D., Gonçalves E.S., Figueiredo Neto A.M.***12:00-13:30****Oral Session****Diluted Magnetic Semiconductors and Oxides****Chairperson: Igor ROZHANSKY**

2TL-G-1 **PROXIMITY EFFECT IN A FERROMAGNET/SEMICONDUCTOR
HYBRID STRUCTURE**

12:00

*Korenev V.L., Salewski M., Akimov I.A., Sapega V.F., Langer L., Kalitukha I.V.,
Debus J., Dzhioev R.I., Yakovlev D.R., Müller D., Schröder C., Hövel H.,
Karczewski G., Wiater M., Wojtowicz T., Kusrayev Yu.G., Bayer M.*

2RP-G-2 **(IN,MN) AS QUANTUM DOTS: SYNTHESIS AND PROPERTIES**

12:30

*Bouravleuv A.D., Nevedomskii V.V., Sapega V.F., Khrebtov A.I.,
Samsonenko Yu.B., Stokov V.N., Cirlin G.E.*

2OR-G-3 **GIANT MAGNETIC POLARONS INDUCED AND MONITORED BY
LIGHT IN EuSe**

12:45

Henriques A.B., Naupa A.R., Usachev P.A., Pavlov V.V., Springholz G.

2OR-G-4 **THE INFLUENCE OF THE SIZE-FACTOR ON THE
MAGNETOSTRUCTURAL TRANSFORMATION OF MANGANESE
ARSENIDE IN THE COMPOSITE CdGeAs₂-MnAs**

13:00

Fedorchenko I.V., Marenkin S.F., Aronov A.N., Ril. A.I., Zheludkevich A.L.

2OR-G-5 **COLOSSAL MAGNETORESISTANCE AND ANOMALOUS HALL
EFFECT IN NONMAGNETIC SEMICONDUCTORS**

13:15

Obukhov S.A., Panysheva T.Yu.

12:00-13:30**Oral Session****High Frequency Properties and Metamaterials****Chairperson: Larissa PANINA**

- 2TL-H-1
12:00
NEAR-FIELD CHIPLESS-RFID TAGS WITH SEQUENTIAL BIT READING IMPLEMENTED IN PLASTIC SUBSTRATES
Herrojo C., Mata-Contreras J., Paredes F., Núñez A., Ramón E., Martín F.
- 2TL-H-2
12:30
METAMATERIALS FOR ARTIFICIAL MAGNETISM
Lapine M.
- 2TL-H-3
13:00
MAGNETIC METAMATERIALS: COUPLING AND PERMEABILITY
Radkovskaya A.A., Petrov P.S., Kiriushchikina S.V., Satskiy A.V., Ivanyukovich M.M., Vakulenko A.Yu., Prudnikov V.N., Kotelnikova O.A., Korolev A.F., Zakharov P.N.

12:00-13:30**Oral Session****Study of Magnetism using X-rays and Neutrons****Chairperson: Serguei MOLODTSOV**

- 2TL-O-1
12:00
SPIN WAVES IN FULL-POLARIZED STATE OF DZIALOSHINSKII-MORIYA HELIMAGNETS $\text{Fe}_{1-x}\text{Mn}_x\text{Ge}$: SMALL-ANGLE NEUTRON SCATTERING STUDY
Grigoriev S.V., Altyntbaev E.V., Siegfried S.-A., Pschenichnyi K.A., Heinemann A., Honnecker D., Tsvyashchenko A.V.
- 2TL-O-2
12:30
CHIRAL MAGNETS PROBED WITH X-RAYS
Wilhelm F., Rogalev A.
- 2RP-O-3
13:00
Ni-Mn-X MAGNETOCALORIC MATERIALS STUDIED BY X-RAY SPECTROSCOPY
Ollefs K.J., Schöppner C., Gutfleisch O., Liu J., Meckenstock R., Farle M., Wilhelm F., Rogalev A., Acet M., Wende H.
- 2RP-O-4
13:15
SANS STUDY OF INITIAL MAGNETIZATION PROCESS IN ND-FE-B HOT-DEFORMED MAGNETS
Saito K., Ueno T., Yano M., Shoji T., Sakuma N., Manabe A., Kato A., Gilbert E.P., Ono K.

12:00-14:00**Poster Session****Spintronics and Magnetotransport****Chairperson: Natalia RYZHANOVA**

- 2PO-II-1
TUNNEL MAGNETORESISTANCE IN HETEROGENEOUS PLANAR SINGLE-BARRIER MAGNETIC TUNNEL JUNCTIONS
Petukhov D.A., Useinov N.Kh.

- 2PO-I1-2 **MAGNETIC INTERACTION AT THE INTERFACE OF EPITAXIAL MANGANITE FILM AND INTERMETALLIC SUPERLATTICE**
Grishin A.S., Ovsyannikov G.A., Klimov A.A., Demidov V.V., Constantinian K.Y.,
 Borisenko I.V., Preobrazhensky V.L., Tiercelin N., Pernod P.
- 2PO-I1-3 **MAGNETICALLY INTERCALATED MULTILAYER SILICENE**
Tokmachev A.M., Averyanov D.V., Karateev I.A., Parfenov O.E., Kondratev O.A.,
 Taldenkov A.N., Storchak V.G.
- 2PO-I1-4 **TRANSPORT PROPERTIES OF $R_x\text{La}_{1-x}\text{B}_6$ SOLID SOLUTIONS**
Anisimov M.A., Bogach A.V., Glushkov V.V., Samarin N.A., Voronov V.V.,
 Demishev S.V., Levchenko A.V., Filipov V.B., Shitsevalova N.Yu., Sluchanko N.E.
- 2PO-I1-5 **ANALYSIS OF ELECTROMAGNETIC FIELDS GENERATED BY A SPIN-INJECTION THZ SPIN OSCILLATOR**
Sherbakov V.A., Shustov V.O., Safin A.R., Vilkov E.A., Chigarev S.G.
- 2PO-I1-6 **THE INFLUENCE OF Na SUBSTITUTION ON SPIN-GLASS TO FERROMAGNETIC TRANSITION IN $\text{La}_{0.54}\text{Ho}_{0.11}\text{Ca}_{0.35-x}\text{Na}_x\text{Mn}_{1-y}\text{Cr}_y\text{O}_3$ MANGANITES**
Craus M.-L., Cornei N., Mita C., Dobrea V., Erhan R.V., Turchenko V.
- 2PO-I1-7 **SIZE EFFECT IN THE ELECTRONIC TRANSPORT OF THIN FILMS OF Bi_2Se_3 AND PtSn_4**
Marchenkov V.V., Chistyakov V.V., Huang J.C.A., Naumov S.V., Perevozchikova Y.A., Marchenkova E.B., Eisterer M.
- 2PO-I1-8 **TWO-MAGNON SCATTERING PROCESSES AND RESISTIVITY OF A HALF-METALLIC FERROMAGNETIC HEUSLER ALLOY Co_2FeSi**
Marchenkov V.V., Irkhin V.Yu., Perevozchikova Yu.A., Kourov N.I., Eisterer M.
- 2PO-I1-9 **OPTICAL PROPERTIES AND ELECTRONIC STRUCTURE OF Co_2TiGe AND Co_2TiSn HEUSLER ALLOYS**
Shreder E.I., Makhnev A.A., Lukoyanov A.V., Suresh K.G.
- 2PO-I1-10 **TEMPERATURE DEPENDENCE OF GILBERT DAMPING IN THIN MANGANITE/NORMAL METAL BILAYERS**
Shcaihulov T.A., Demidov V.V., Borisenko I.V., Ovsyannikov G.A.
- 2PO-I1-11 **NUMERICAL SIMULATION OF SPIN TRANSPORT IN SYSTEMS WITH COMPLEX GEOMETRY**
Andrianov T., Vedyayev A.
- 2PO-I1-12 **TEMPERATURE INDUCED SWITCHING OF SPIN VALVES WITH A Gd LAYER**
Naumova L.I., Milyaev M.A., Chernyshova T.A., Proglyado V.V., Kamensky I.Y.,
 Krinitsina T.P., Ryabukhina M.V., Maksimova I.K., Ustinov V.V.
- 2PO-I1-13 **WEAK LOCALIZATION IN NANOETEROGENEOUS SYSTEMS**
Sitnikov A.V., Stognei O.V., Grebennikov A.A., Zhilova O.V., Kalinin Yu.E.

- 2PO-I1-14 **SPIN TRANSPORT THROUGH $\text{Co}_{0.9}\text{Fe}_{0.1}/\text{MgO}/\text{InSb}$ TUNNEL JUNCTION**
Viglin N.A., Ustinov V.V.
- 2PO-I1-15 **MAGNETIC PROPERTIES OF THREE-LAYER $\text{CoNi}/\text{Si}/\text{FeNi}$ FILMS**
*Kobyakov A.V., Turpanov I.A., Patrin G.S., Yushkov V.I.,
Patrin K.G., Yurkin G.Yu., Zhivaya Ya.A.*
- 2PO-I1-16 **MAGNETOSTATIC WAVES IN A MEDIUM WITH DAMPING**
Makarov P.A., Shcheglov V.I., Kotov L.N.
- 2PO-I1-17 **ANOMALOUS CYCLOTRON MASS DEPENDENCE ON THE MAGNETIC FIELD AND BERRY'S PHASE IN $(\text{Cd}_{1-x-y}\text{Zn}_x\text{Mn}_y)_3\text{As}_2$ SOLID SOLUTIONS**
*Zakhvalinskii V.S., Nikulicheva T.B., Lähderanta E., Shakhov M.A.,
Nikitovskaia E.A., Taran S.V.*
- 2PO-I1-18 **GALVANOMAGNETIC EFFECT OF $\text{Gd}_x\text{Mn}_{1-x}\text{Se}$ SOLID SOLUTION**
Masyugin A.N., Romanova O.B., Kharkov A.M., Yanushkevich K.I.
- 2PO-I1-19 **MULTITERMINAL PLANAR DEVICES BASED ON HYBRID STRUCTURES: FABRICATION AND SPIN-DEPENDENT TRANSPORT**
*Tarasov A.S., Lukyanenko A.V., Tarasov I.A., Rautskii M.V., Bondarev I.A.,
Varnakov S.N., Ovchinnikov S.G., Patrin G.S., Volkov N.V.*
- 2PO-I1-20 **STUDY OF THE LATERAL PHOTOVOLTAIC EFFECT IN THE $\text{Fe}_3\text{Si}/\text{Si}$ HYBRID STRUCTURE**
*Volkov N.V., Rautskii M.V., Bondarev I.A., Lukyanenko A.V., Varnakov S.N.,
Ovchinnikov S.G.*
- 2PO-I1-21 **VORTEX DYNAMICS IN DISKS WITH TAILORED MAGNETISATIONS**
*Ramasubramanian L., Fowley C., Kákay A., Yildirim O., Matthes P., Lindner J.,
Fassbender J., Gemming S., Schulz S.E., Deac A.M.*
- 2PO-I1-22 **TUNNEL MAGNETORESISTANCE AND SPIN TRANSFER TORQUE IN MAGNETIC TUNNEL JUNCTION WITH EMBEDDED NANOPARTICLES**
Useinov N.
- 2PO-I1-23 **COMPARISON OF THE CRITICAL SWITCHING CHARACTERISTICS OF MRAM CELLS MADE OF VARIOUS MATERIALS WITH UNIAXIAL ANISOTROPY**
Iusipova Iu.A.
- 2PO-I1-24 **THE DYNAMICAL REGIMES OF MAGNETIZATION IN MAGNETIC VALVES WITH IN-PLANE AND PERPENDICULAR ANISOTROPY**
Ostrovskaya N., Iusipova Iu., Skidanov V., Skvortsov M.

12:00-14:00

Poster Session

Spintronics and Magnetotransport 2

Chairperson: Mikhail ZHURAVLEV

- 2PO-I-1 **NON-LOCAL SIGNAL AND NOISE IN LATERAL SPIN-VALVE STRUCTURES**
Vedyayev A., Ryzhanova N., Strelkov N., Andrianov T., Lobachev A., Dieny B.
- 2PO-I-2 **Sd-ELECTRON SPIN RESONANCE IN FERROMAGNETIC MATERIALS**
Nekrasov M.A., Safin A.R., Vilkov E.A., Chigarev S.G.
- 2PO-I-3 **ROBUST IMAGE RECONSTRUCTION ALGORITHMS FOR THE MICROWAVE SPINTRONIC HOLOGRAPHIC VISION SYSTEM**
Leshchiner D.R., Zvezdin K.A., Popkov A.F., Chepkov G.N., Perlo P.
- 2PO-I-4 **MAGNETIC AND TRANSPORT PROPERTIES OF MN₂FE₂GA MELT-SPUN RIBBONS**
Gavrikov I.S., Seredina M.A., Anikin Yu.A., Arkhipov D.I., Khovaylo V.V.
- 2PO-I-5 **THERMODYNAMIC ASPECTS OF DESCRIBING THE SPONTANEOUS MAGNETISM CONTRIBUTION OF DONOR ELECTRONS OF TRANSITION ELEMENT IMPURITIES TO THE HALL CONDUCTIVITY OF A SEMICONDUCTOR**
Okulov V.I., Pamyatnykh E.A.
- 2PO-I-6 **DISPERSION OF THE MAGNETOSTATIC VOLUME WAVES IN A MEDIUM WITH DAMPING**
Maltceva L., Makarov P., Shcheglov V.
- 2PO-I-7 **QUASI-HALL EFFECT AND ANISOTROPIC CONDUCTIVITY OF 2DEG IN AlGa_N/AlN/GaN HETEROSTRUCTURES**
Chumakov N.K., Mayboroda I.O., Grichuk E.S., Lev L.L., Valeyev V.G., Zhanaveskin M.L., Srtokov V.N.
- 2PO-I-8 **MAGNETIC-OPTICAL EFFECTS OF CoPt AND CoPd ALLOYS**
Kalentyeva I.L., Danilov Yu.A., Dorokhin M.V., Demina P.B., Vikhrova O.V., Zdoroveyshchev A.V., Kudrin A.V.
- 2PO-I-9 **INFLUENCE OF MECHANICAL STRESSES ON THE COMPLEX IMPEDANCE OF SOFT MAGNETIC MICROWIRES**
Semirov A.V., Kudryavtsev V.O., Moiseev A.A., Vasyukhno N.V., Derevyanko M.S., Nemirova V.A.
- 2PO-I-10 **EFFECTS OF AVERAGE GRAIN SIZE ON THE MAGNETIC PROPERTIES OF PERMALLOY FILMS**
Djuzhev N.A., Iurov A.S., Mazurkin N.S., Chinenkov M.Yu., Pushkina M.M.
- 2PO-I-11 **CREATION OF EXCHANGE BIASED STRUCTURE USING THE PHASE SEPARATION EFFECT**
Savin P.A., Svalov A.V., Lepalovskij V.N., Vas'kovskiy V.O.
- 2PO-I-12 **DOMAIN WALL'S STABILITY AND CURRENT-INDUCED DYNAMICS IN NANOWIRE WITH PERPENDICULAR MAGNETIC ANISOTROPY**
Tikhomirova K.A., Kindiak I.L., Skirdkov P.N., Zvezdin K.A.

- 2PO-I-13 **PLASMONIC NANOANTENNAS FOR OPTICAL GENERATION OF THE SPIN WAVES IN MAGNETIC DIELECTRIC FILMS**
Sylgacheva D.A., Kozhaev M.A., Chernov A.I., Kalish A.N., Belotelov V.I.
- 2PO-I-14 **ZERO-BIAS MAGNETIC FIELD SPIN-TORQUE DIODE FREQUENCY TUNING BY EXCHANGE ANISOTROPY PINNING**
Khudorozhkov A.A., Skirdkov P.N., Zvezdin K.A., Popkov A.F., Zvezdin A.K.
- 2PO-I-15 **SPIN-TORQUE DIODE SENSITIVITY IN MAGNETIC NANOWIRE WITH A MAGNETIC TUNNEL JUNCTION**
Demin G.D.
- 2PO-I-16 **MODELING OF MAGNETIC LABEL FIELD SENSING BY GMR STRUCTURE**
Bukunov K.A., Babaizev G.V., Chechenin N.G.
- 2PO-I-17 **EFFECT OF ANNEALING ON HYSTERESIS PROPERTIES AND CRYSTALLINE STRUCTURE OF $\text{Ni}_x\text{Mn}_{100-x}/\text{Fe}_{20}\text{Ni}_{80}$ THIN FILMS**
Moskalev M.E., Lepalovskij V.N., Svalov A.V., Larrañaga A., Vas'kovskiy V.O.
- 2PO-I-18 **SIMULATION OF COUPLED DYNAMICS AND SWITCHING OF THE POLARITY OF VORTICES IN NANOCOLUMNAR CONDUCTING TRIPLEX STRUCTURE**
Stepanov S.V., Ekomasov A.E., Zvezdin K.A., Ekomasov E.G.
- 2PO-I-19 **NEW DATA AND DEVELOPING THE IDEAS ABOUT PHYSICAL NATURE OF THE MAGNETIC ORDERING MANIFESTATIONS IN THE HALL EFFECT AND MAGNETORESISTANCE ANOMALIES IN IRON-VANADIUM-ALUMINUM ALLOYS NEAR STOICHIOMETRIC COMPOSITION**
Lonchakov A.T., Marchenkov V.V., Okulov V.I., Podgornyykh S.M., Usik A.Yu., Bobin S.B., Deryushkin V.V., Govorkova T.E., Okulova K.A.
- 2PO-I-20 **TUNNEL MAGNETORESISTIVE EFFECT IN NANOSTRUCTURED COMPOSITE SYSTEMS**
Stognei O.V., Sitnikov A.V., Kalinin Yu.E.
- 2PO-I-21 **NON-UNIFORM FREE LAYER IN PMTJ STACK: IMPACT ON MAGNETIC ANISOTROPY AND STT SWITCHING**
Timopheev A.A., Teixeira B.M.S., Sousa R.C., Auffret S., Nguen T.N., Buda-Prejbeanu L., Chshiev M., Sobolev N.A., Dieny B.
- 2PO-I-22 **EFFECT OF INTERFACE STATE ON MAGNETORESISTIVE PROPERTIES OF Co/Cu-BASED SUPERLATTICES**
Chuprakov S.A., Blinov I.V., Krinitsina T.P., Milyaev M.A., Popov V.V.

12:00-14:00

Poster Session

Magnetophotonics and Ultrafast Magnetism

Chairperson: Elena GAN'SHINA

- 2PO-J-1 **MOLECULAR AGGREGATES FOR TOPOLOGICALLY PROTECTED EXCITONIC MATERIALS**
Shakirov M.A., Saikin S.K., Proshin Yu.N.
- 2PO-J-2 **INVERSE FARADAY EFFECT IN GRAPHENE-DIELECTRIC-METAL STRUCTURE**
Tolkachev V.A., Plaksin P.S., Bychkov I.V., Kuzmin D.A., Shavrov V.G.
- 2PO-J-3 **TRANSVERSE MAGNETOOPTICAL KERR EFFECT TUNING BY VARIATION OF MAGNETOPLASMONIC CRYSTALS PROFILE**
Frolov A.Yu., Novikov I.A., Malyshev V.D., Kiryanov M.A., Popov V.V., Ezhov A.A., Dolgova T.V., Fedyanin A.A.
- 2PO-J-4 **CRITICAL INFLUENCE OF RHODIUM ON ULTRAFAST DEMAGNETIZATION OF $L1_0$ -Fe(Pt_{1-x}Rh_x) THIN FILMS**
Petrov A.V., Yusupov R.V., Nikitin S.I., Valiullin A.A., Kamzin A.S.
- 2PO-J-5 **MAGNETOOPTICAL VISUALIZATION OF WELD SEAMS**
Berzhansky V.N., Lugovskoy N.V., Filippov D.M., Prokopov A.R., Shuyskiy A.A.
- 2PO-J-6 **POLARIZATION DEGENERATE PHOTONIC BAND GAPS IN PERIODICALLY MAGNETISED MEDIUM**
Karavaeva N.I., Barabanenkov Y.N., Logunov M.V., Nikitov S.A., Merzlikin A.M.
- 2PO-J-7 **TAMM PLASMON-POLARITONS STRUCTURES WITH BI-SUBSTITUTED GARNET LAYERS**
Mikhailova T.V., Shaposhnikov A.N., Prokopov A.R., Karavainikov A.V., Tomilin S.V., Lyashko S.D., Berzhansky V.N.
- 2PO-J-8 **SHORT-SCALE MAGNETOOPTICAL EFFECTS IN MAGNETIC MEDIA WITH DISORDER**
Kozhaev M.A., Niyazov R.A., Belotelov V.I.
- 2PO-J-9 **TUNABILITY OF THE WAVEVECTOR OF SPIN WAVES OPTICALLY GENERATED IN IRON GARNET FILMS**
Savochkin I.V., Jäckl M., Belotelov V.I., Akimov I.A., Kozhaev M.A., Sylgacheva D.A., Chernov A.I., Shaposhnikov A.N., Prokopov A.R., Berzhansky V.N., Yakovlev D.R., Zvezdin A.K., Bayer M.
- 2PO-J-10 **LOCAL EXCITATION OF THE ULTRAFAST MAGNETIZATION DYNAMICS IN THE MAGNETOPHOTONIC CRYSTALS BY FS-LASER PULSES**
Chernov A.I., Kozhaev M.A., Sylgacheva D.A., Belotelov V.I.
- 2PO-J-11 **MAGNETO-OPTICAL EFFECTS IN NON-PERIODICAL AND NON-SYMMETRICAL MAGNETO-PLASMONIC STRUCTURES**
Kalish A.N., Kozhaev M.A., Komarov R.S., Achanta V.G., Agrawal A., Dagesyan S.A., Khokhlov N.E., Belotelov V.I.
- 2PO-J-12 **ENHANCEMENT OF MAGNETO-OPTICAL EFFECTS IN DIELECTRIC METASURFACES WITH MIE-TYPE RESONANCES**
Barsukova M.G., Shorokhov A.S., Musorin A.I., Shcherbakov M.R., Neshev D.N., Kivshar Y.S., Fedyanin A.A.

- 2PO-J-13 **AC AND DC MAGNETIC FIELD SENSOR BASED ON
MAGNETOPLASMONIC CRYSTAL**
Belyaev V., Grunin A., Rodionova V., Fedyanin A.
- 2PO-J-14 **MAGNETIC FIELD SENSOR BASED ON THE MAGNETOPHOTONIC
INTENSITY EFFECT**
*Belotelov V.I., Dagesyan S.A., Kalish A.N., Kapralov P.O., Knyazev G.A.,
Kozhaev M.A., Vetoshko P.M., Zvezdin A.K.*
- 2PO-J-15 **TAILORING THE MAGNETO-OPTICAL RESPONSE OF 2D
GOLD-GARNET NANOGRATINGS**
*Shein G.A., Musorin A.I., Chetvertukhin A.V., Dolgova T.V., Uchida H., Inoue M.,
Fedyanin A.A.*
- 2PO-J-16 **CONICAL REFRACTION IN MAGNETO-OPTICAL CRYSTALS**
Kuznetsov E.V., Merzlikin A.M.
- 2PO-J-17 **MAGNETIC RAMAN SCATTERING IN A LOW-SYMMETRY
ANTIFERROMAGNET NiWO_4**
*Prosnikov M.A., Smirnov A.N., Davydov V.Yu., Volkov M.P., Becker P., Bohatý L.,
Pisarev R.V.*
- 2PO-J-18 **WAVEGUIDE MAGNETOPLASMONIC STRUCTURE BASED ON
FERRITE-GARNET FILM**
Basiladze G.D., Dolgov A.I., Berzhansky V.N., Karavainikov A.V., Prokopov A.R.
- 2PO-J-19 **CRYSTAL GROWTH AND SPIN REORIENTATION TRANSITION IN
 $\text{Sm}_{0.4}\text{Er}_{0.6}\text{FeO}_3$ ORTHOFERRITE**
Wu A.
- 2PO-J-20 **MAGNETOPLASMONIC MULTILAYERED HETEROSTRUCTURES
WITH GARNET FOR SENSING**
*Ignatyeva D.O., Sekatskii S.K., Kapralov P.O., Knyazev G.A., Nur-E-Alam M.,
Vasiliev M., Alameh K., Belotelov V.I.*
- 2PO-J-21 **INFLUENCE OF THE DISTRIBUTION ON THE GRANULE SIZE IN
NANOCOMPOSITES ON OPTICAL AND MAGNETOOPTICAL
SPECTRA**
Gan'shina E.A., Yurasov A.N., Granovsky N.V., Sokolov A.S.
- 2PO-J-22 **NEW MECHANISM OF THE ENHANCEMENT OF THE GOOS-
HANCHEN EFFECT AT MAGNETIC-NONMAGNETIC INTERFACE**
*Dragunov I.E., Savchenko A.S., Sukhorukova O.S., Tarasenko A.S.,
Tarasenko S.V., Shavrov V.G.*
- 2PO-J-23 **Ce:YIG FILM GROWN ON Nd:YAG FOR MICRO LASERS**
Morimoto R., Goto T., Takagi H., Nakamura Y., Uchida H., Inoue M.

12:00-14:00

Poster Session

High Frequency Properties and Metamaterials

Chairperson: Sergey STAROSTENKO

- 2PO-K-1 **MANIFESTATIONS OF UNIDIRECTIONAL EXCHANGE ANISOTROPY IN FERRITE-GARNET FILMS WITH A 'WEAK' SUBLATTICE**
Poimanov V., Shkar V., Nepochatykh Yu., Sampath V., Shavrov V., Koledov V.
- 2PO-K-2 **STRUCTURE, CONDUCTION AND HIGH FREQUENCY REFLECTIVE PROPERTIES OF AMORPHOUS NANOGRANULATED COMPOSITES**
Antonets I.V., Kotov L.N.
- 2PO-K-3 **EFFECTIVE PERMEABILITY OF COMPOSITE FILMS WITH DIFFERENT METALS AND DIELECTRICS**
Kotov L.N., Kurdyukova E.G., Kalinin Yu.E., Sitnikov A.V.
- 2PO-K-4 **MEASUREMENT OF MAGNETIC NOISE IN MAGNETOIMPEDANCE SENSING ELEMENT**
Antonov A.S., Sultan-Zade T.T., Buznikov N.A.
- 2PO-K-5 **EXCITATION OF MAGNETOELASTIC OSCILLATIONS IN YIG FILMS BY DOMAIN STRUCTURE**
Beznosikov D.S., Osipov S.V., Kotov L.N., Vlasov V.S., Lutsev L.V.
- 2PO-K-6 **MODELING OF EXCITATION OF MAGNETOELASTIC OSCILLATIONS IN THE THREE-LAYER STRUCTURE BY RF MAGNETIC FIELD**
Dianov M.Yu., Vlasov V.S., Kotov L.N., Shavrov V.G., Shcheglov V.I.
- 2PO-K-7 **SURFACE ELECTROMAGNETIC-SPIN COUPLED WAVES IN MAGNETIC SEMICONDUCTOR**
Bychkov I.V., Kuzmin D.A., Tolkachev V.A., Plaksin P.S., Shavrov V.G.
- 2PO-K-8 **THE ANALYSIS OF AFM IMAGES OF THE METAL-DIELECTRIC COMPOSITE FILMS**
Kotov L.N., Vlasov V.S., Ustyugov V.A., Kalinin Yu.E., Sitnikov A.V., Golubev E.A.
- 2PO-K-9 **ELECTRIC AND MAGNETIC PROPERTIES OF COMPOSITES BASED ON FERROMAGNETICS IN POLYMER FERROELECTRICS**
Shakirzyanov R.I., Astakhov V.A., Morchenko A.T., Kostishyn V.G., Panina L.V., Trukhanov A.V., Kochervinskii V.V., Bedin S.A., Bessonova N.P.
- 2PO-K-10 **SELF-GENERATION OF QUASI-PERIODIC SIGNALS IN FERRITE-FILM ACTIVE RING OSCILLATORS**
Kondrashov A.V., Ustinov A.B., Metelkina K.K., Kalinikos B.A., Lähderanta E.
- 2PO-K-11 **A NOVEL METHOD OF ESR OSCILLATING MAGNETIZATION VALUE DETERMINATION IN STRONGLY CORRELATED METALS**
Gilmanov M.I., Semeno A.V., Samarin A.N., Demishev S.V.
- 2PO-K-12 **NONLINEAR PHENOMENA IN LAYERED STRUCTURES BASED ON MAGNONIC CRYSTALS**
Morozova M.A., Matveev O.V., Romanenko D.V., Sharaevskii Yu.P.
- 2PO-K-13 **TEMPERATURE DEPENDENCE OF IMPEDANCE OF THE PLANAR SOFT MAGNETIC $\text{Fe}_{20}\text{Ni}_{80}/\text{Fe}_3\text{Co}_{67}\text{Cr}_3\text{Si}_{15}\text{B}_{12}/\text{Fe}_{20}\text{Ni}_{80}$ COMPOSITE**
Semirov A.V., Derevyanko M.S., Moiseev A.A., Svalov A.V., Kurlyandskaya G.V.

- 2PO-K-14 **TUNABLE BAND GAPS IN A LAYERED STRUCTURE BASED ON MAGNONIC CRYSTALS AND FERROELECTRICS**
Matveev O.V., Romanenko D.V., Morozova M.A.
- 2PO-K-15 **ANOMALOUS SPIN RELAXATION IN $\text{Eu}_{1-x}\text{Gd}_x\text{B}_6$ SOLID SOLUTIONS**
Samarin A.N., Glushkov V.V., Gilmanov M.I., Semeno A.V., Bogach A.V., Dukhnenko A.V., Kuznetsov A.V., Levchenko A.V., Shitsevalova N.Yu., Voronov V.V., Sluchanko N.E., Demishev S.V.
- 2PO-K-16 **ASYMMETRIC STOCHASTIC RESONANCE IN FERROMAGNETIC NANOPARTICLES**
Isavnin A.G.
- 2PO-K-17 **THE RESONANCE SUSCEPTIBILITY OF TWO-LAYER EXCHANGE-COUPLED FERROMAGNETIC FILM WITH A COMBINED UNIAXIAL AND CUBIC ANISOTROPY IN THE LAYERS**
Shul'ga N.V., Doroshenko R.A.
- 2PO-K-18 **FORM OF FOCUSING MAGNETOSTATIC WAVE EMITTER MODELED BY MICROMAGNETIC SIMULATIONS**
Dudko G.M., Stalmakhov A.V., Kozhevnikov A.V., Khivintsev Y.V., Sakharov V.K., Filimonov Y.A.
- 2PO-K-19 **FERROMAGNETIC RESONANCE AND RANDOM MAGNETIC ANISOTROPY IN NANOCRYSTALLINE Fe-Zr-N FILMS**
Sheftel E.N., Harin E.V., Tedzhetov V.A., Koksharov Yu.A.
- 2PO-K-20 **DEVELOPMENT OF THE MAGNETOELASTIC RESONANCE THEORY IN INHOMOGENEOUS MEDIA**
Ignatchenko V.A., Polukhin D.S.
- 2PO-K-21 **DETERMINE OF AMPLITUDES OF MAGNETOELASTIC OSCILLATIONS IN FERRITE PLATE NEAR THE SPIN-REORIENTATION PHASE TRANSITIONS**
Kotov L.N., Severin P.A., Vlasov V.S.
- 2PO-K-22 **MAGNETOELASTIC WAVES IN ION-BEAM SPUTTERED SUBMICRON POLYCRYSTALLINE YIG FILMS ON GGG SUBSTRATES**
Sakharov V.K., Khivintsev Y.V., Vysotskii S.L., Stognij A.I., Filimonov Y.A.
- 2PO-K-23 **BRILLOUIN SPECTROSCOPY OF NONLINEAR MAGNETOACOUSTIC RESONANCES IN A LAYERED YIG/GGG STRUCTURE**
Tikhonov V.V., Litvinenko A.N., Sadovnikov A.V., Nikitov S.A.
- 2PO-K-24 **SPATIAL AND FREQUENCY SELECTIVE YIG WAVEGUIDES CROSSING**
Sadovnikov A.V., Gubanov V.A., Sharaevskii Yu.P., Nikitov S.A.
- 2PO-K-25 **FORWARD VOLUME SPIN WAVES PROPAGATING IN THIN YIG FILMS**
Yoshimoto T., Goto T., Shimada K., Sekiguchi K., Ross C.A., Takagi H., Nakamura Y., Uchida H., Inoue M.

15:00-17:00**Oral Session****MRAM****Chairperson: Konstantin ZVEZDIN**

2TL-A-4

15:00

STT-MRAM FOR RFID APPLICATIONS*Mikhailov A.P., Belanovsky A.D., Trofimov A.V., Chauveau A., Aksenova E., Sorokina S., Smirnov E., Valdez J., Gapihan E., Khvalkovskiy A.V.*

2TL-A-5

15:30

SECOND ORDER ANISOTROPY IN PERPENDICULAR MAGNETIC TUNNEL JUNCTIONS FOR HIGH SPEED SWITCHING MRAM*Timopheev A., Sousa R.C., Chshiev M., Buda-Prejbeanu L., Nguyen H.T., Dieny B.*

2TL-A-6

16:00

ORIGIN OF ASYMMETRY IN THERMALLY-DRIVEN MAGNETIZATION REVERSAL FOR PERPENDICULAR STT-MRAM*Apalkov D., Wang S., Schafer S., Nikitin V.*

2TL-A-7

16:30

UNIQUE SELECTOR DEVELOPMENT FOR 3D CROSS-POINT STT-MRAM*Huai Y.***15:00-17:00****Oral Session****Soft and Hard Magnetic Materials****Chairperson: Dmitry BERKOV**

2TL-B-4

15:00

MAGNETIC SANS ON ND-FE-B MAGNETS*Michels A.*

2RP-B-5

15:30

NANOSTRUCTURE TAILORING OF L10-ORDERED EPITAXIAL MAGNETIC THIN FILMS*Futamoto M., Shimizu T., Nakamura M., Ohtake M.*

2OR-B-6

15:45

STRUCTURE ANALYSIS OF Co-Pt/MgO/Co-Pt TRI-LAYER FILMS GROWN EPITAXIALLY ON Ru(0001) UNDERLAYER*Ohtake M., Suzuki D., Futamoto M., Kirino F., Inaba N.*

2OR-B-7

16:00

EFFECT OF RARE-EARTH AND TRANSITION METAL ELEMENTS ON COERCIVITY IN ND-FE-B PARTICLES BY REDUCTION-DIFFUSION PROCESS*Kim D., Galkin V., Haider K., Ahn J.*

2OR-B-8

16:15

MICROMAGNETIC MODEL OF Nd-Fe-B NANOCOMPOSITE: CORE-SHELL PARTICLES WITH SUPERPARAMAGNETIC INCLUSIONS*Erokhin S., Berkov D., Michels A.*

2OR-B-9

16:30

MAGNETIC HARDNESS IN IRON CHALCOGENIDE COMPOUNDS WITH A LAYERED CRYSTAL STRUCTURE*Baranov N.V., Selezneva N.V., Sherokalova E.M., Gubkin A.F.*

2OR-B-10
16:45

SPIN STRUCTURE OF ND-FE-B-BASED TEXTURED NANOCOMPOSITES: ROLE OF INTERFACE CHEMISTRY
Titov I.S., Michels A., Barbieri M., Yano M., Saito K., Ono K., Kohlbrecher J.

15:00-17:15

Oral Session

Magnetism and Superconductivity

Chairperson: Shiro KAWABATA

2TL-D-5
15:00

STRONGLY SPIN-DEPENDENT EFFECTS AT INTERFACES BETWEEN SUPERCONDUCTORS AND MAGNETIC METALS AND INSULATORS
Machon P., Wolf M.J., Beckman D., Belzig W.

2TL-D-6
15:30

LONG-RANGE PROXIMITY EFFECT IN NB-BASED HETEROSTRUCTURES INDUCED BY A MAGNETICALLY INHOMOGENEOUS PERMALLOY LAYER
Cirillo C., Voltan S., Ilyina E.A., Hernandez J.M., Garcia-Santiago A., Aarts J., Attanasio C.

2TL-D-7
16:00

SUPERCONDUCTING SPIN-VALVES
Tagirov L.R., Kupriyanov M.Yu., Sidorenko A.S., Kushnir V.N.

2OR-D-8
16:30

SUPERCONDUCTING SPIN VALVES BASED ON MAGNETIC SPIRAL REORIENTATION
Pugach N.G., Safonchik M.O.

2OR-D-9
16:45

CRITICAL JOSEPHSON CURRENT CONTROLLED BY SPIRAL RE-ORIENTATION IN MnSi
Heim D.M., Pugach S., Pugach N.G.

2OR-D-10
17:00

DENSITY OF STATES IN QUASI-ONE-DIMENSIONAL SUPERCONDUCTOR GOVERNED BY QUANTUM FLUCTUATIONS
Arutyunov K.Yu., Radkevich A.A., Semenov A.G., Zaikin A.D.

15:00-17:15

Oral Session

Magnetophotonics

Chairperson: Roman PISAREV

2TL-C-5
15:00

MAGNETOPHOTONICS WITH ALL-DIELECTRIC METASURFACES
Barsukova M.G., Shorokhov A.S., Musorin A.I., Neshev D.N., Kivshar Y.S., Fedyanin A.A.

2RP-C-6
15:30

PLASMON-ENHANCED MAGNETO-OPTICAL RESPONSE FOR TUNABLE WAVEPLATE
Shaimanov A.N., Khabarov K.M., Baryshev A.V.

2RP-C-7
15:45

1D MAGNETO-PHOTONIC CRYSTAL FOR OPTICAL SENSING
Merzlikin A.M., Kuznetsov E.V., Baryshev A.V.

- 2RP-C-8
16:00 **PLASMONIC ARTIFICIAL MAGNETIC LATTICE**
Uchida H., Ooki K., Saito S., Goto T., Takagi H., Nakamura Y., Lim P.B., Inoue M.
- 2RP-C-9
16:15 **NON-ERROR RECONSTRUCTION OF MAGNETIC HOLOGRAM MEMORY**
Nakamura Y., Shirakashi Z., Takagi H., Goto T., Lim P.B., Uchida H., Inoue M.
- 2RP-C-10
16:30 **BITHMUTH-SUBSTITUTED NEODYMIUM IRON GARNET FILMS FOR MAGNETO-OPTICAL IMAGING**
Ishibashi T., Nagakubo Y., Baba and Lou G.
- 2OR-C-11
16:45 **OPTIMIZATION OF NONLINEAR MAGNETIC CONTRAST IN KRETSCHMANN MULTILAYER STRUCTURES**
Tran N.M., Traum C., Alekhin A., Juvé V., Vaudel G., Razdolski I., Makarov D., Seletskiy D., Temnov V.V.
- 2RP-C-12
17:00 **OPTICAL SPECTROSCOPY OF 1D Au/GARNET MAGNETOPLASMONIC CRYSTALS**
Chekhov A.L., Naydenov P.N., Stognij A.I., Murzina T.V.

15:00-17:00**Oral Session****Magnetic Shape Memory and Magnetocaloric Effect****Chairperson: Vasily BUCHELNIKOV**

- 2TL-E-4
15:00 **INVESTIGATION OF THE MAGNETOCALORIC EFFECT IN Ni-Mn-In-BASED HEUSLER ALLOYS BY A DIRECT METHOD IN HIGH MAGNETIC FIELDS**
Koshkid'ko Yu., Pandey S., Quetz A., Aryal A., Dubenko I., Cwik J., Dilmieva E., Granovsky A., Lähderanta E., Zhukov A., Stadler S., Ali N.
- 2OR-E-5
15:30 **MAGNETOCALORIC EFFECTS OF METAMAGNETIC SHAPE-MEMOLY ALLOYS NiCoMnIn and NiCoMnGa IN PULSED-HIGH-MAGNETIC FIELDS UP TO 56 T**
Kihara T., Xu X., Ito W., Kainuma R., Miyake A., Adachi Y., Kanomata T., Tokunaga M.
- 2OR-E-6
15:45 **PHASE FORMATION AND MAGNETOCALORIC EFFECT IN (Pr,Nd)-Fe ALLOYS PREPARED BY RAPIDLY QUENCHED METHOD**
Nguyen H.D., Nguyen H.H., Nguyen M.A., Nguyen H.Y., Pham T.T., Kamantsev A.P., Koledov V.V., Mashirov A.V., Tran D.T., Kieu X.H., Seong-Cho Y.
- 2TL-E-7
16:00 **MAGNETOCALORIC EFFECT IN CYCLIC MAGNETIC FIELDS**
Aliiev A.M., Koledov V.V.

2RP-E-8
16:30
PLASTICALLY DEFORMED Gd-X (X=In, Ga, B, Y, Zr) SOLID SOLUTIONS AS A SECOND ORDER MAGNETIC PHASE TRANSITION MATERIALS FOR MAGNETOCALORIC REFRIGERATION
Taskaev S., Skokov K., Khovaylo V., Karpenkov D., Ulyanov M., Gunderov D., Aliev A., Gutfleisch O.

2RP-E-9
16:45
MAGNETOCALORIC EFFECT IN Ni-Co-Mn-(Sn, Al) HEUSLER ALLOYS: THEORETICAL STUDY
Sokolovskiy V.V., Zagrebin M.A., Buchelnikov V.D.

15:00-17:00

Oral Session

Magnetism in Biology and Medicine

Chairperson: Irena MARKOVIC MILOSEVIC

2TL-F-4
15:00
MAGNETIC NANOWIRE BIOLABELS USING FORC
Bethanie S., Sharma A., Shore D.

2TL-F-5
15:30
ADVANTAGES OF POLYACRYLAMIDE HYDROGELS FILLED WITH MAGNETIC NANOPARTICLES FOR THE BIOMEDICAL ENGINEERING
Blyakhman F.A., Makarova E.B., Makeyev O.G., Melekhin V.V., Safronov A.P., Sichkar D.A., Shklyar T.F., Sokolov S.Yu., Zubarev A.Yu.

2TL-F-6
16:00
TOWARD DIGITAL CELLS ON CHIP BASED ON SPINTRONICS: MANIPULATION AND MONITORING OF PARTICLES AND CELLS VIA NANO- AND MICRO-SCALE MAGNETOPHORETIC DEVICES
Byeonghwa L., Torati S.R., Kim K.W., Xinghao H., Reddy V., Kim C.G.

2OR-F-7
16:30
RAPID AND ULTRASENSITIVE DETECTION OF SMALL MOLECULES WITH IMMUNOSENSORS BASED ON REGISTRATION OF MAGNETIC NANOLABELS
Guteneva N.V., Znoyko S.L., Nikitin M.P., Orlov A.V., Nikitin P.I.

2OR-F-8
16:45
DETECTION OF CARDIAC BIOMARKERS MYOGLOBIN AND C-REACTIVE PROTEIN BY A GIANT MAGNETOIMPEDANCE-BASED BIOSENSING SYSTEM
Yang Z., Dong X., Guo P., Yan H., Lei Ch., Wang F., Luo Y.-S.

15:00-17:00

Oral Session

Diluted Magnetic Semiconductors and Oxides

Chairperson: Boris ARONZON

2TL-G-6
15:00
SPIN-DEPENDENT TUNNELING IN SEMICONDUCTOR HETEROSTRUCTURES WITH A MAGNETIC LAYER
Rozhansky I.V., Denisov K.S., Averkiev N.S., Lahderanta E.

2RP-G-7
15:30
HIGH-FIELD HOPPING MAGNETOTRANSPORT IN KESTERITES
Lähderanta E., Lisunov K., Shakhov M., Guk M., Hajdeu-Chicarosh E., Levchenko S., Zakharchuk I., Arushanov E.

2OR-G-8
15:45

FERROMAGNETIC (GA,MN)P: MAGNETO-TRANSPORT PROPERTIES AND CO-DOPING EFFECT

Xu Ch., Yuan Y., Wang M., Hentschel H., Böttger R., Helm M., Zhou Sh.

2OR-G-9
16:00

MAGNETIC AND TRANSPORT PROPERTIES IN 2D-HETEROSTRUCTURES WITH DIFFERENT CONCENTRATION OF MANGANESE DELTA-LAYER

Moiseev K.D., Nevedomsky V.N., Lugovikh A.M., Charikova T.B., Okulov V.I., Kudriavstev Yu., Escobosa A., Casallas Y., Lopez-Lopez M.

2OR-G-10
16:15

LASER INDUCED ULTRAFAST MAGNETIZATION DYNAMICS IN MAGNETIC SEMICONDUCTOR CdCr₂Se₄

Pogrebna A., Barsaume S., Telegin A., Sukhorukov Yu., Rasing Th., Kimel A.V.

2OR-G-11
16:30

DESIGN OF QUANTUM BITS ON ²⁹Si CRYSTAL SURFACE

Morgunov R., Koplak O., Yurov A.

2OR-G-12
16:45

SILICON HIGH-TEMPERATURE DIAMONDLIKE FERROMAGNETIC WITH SELFORGANIZED SUPERLATTICE DISTRIBUTION OF MANGANESE IMPURITY

Demidov E.S., Podolskii V.V., Lesnikov V.P., Karzanov V.V., Tronov A.A., Budarin L.I.

15:00-17:00

Oral Session

High Frequency Properties and Metamaterials

Chairperson: Anna RADKOVSKAYA

2TL-H-4
15:00

RF IC CHIP LEVEL NOISE SUPPRESSOR AGAINST POWER ELECTRONIC NOISE INJECTION FOR NEAR-FUTURE TELECOMMUNICATION SYSTEMS

Sai R., Sato M., Shivashankar S.A., Yamaguchi M.

2RP-H-5
15:30

TEMPERATURE EFFECTS ON MAGNETIZATION PROCESSES AND MAGNETOIMPEDANCE IN LOW MAGNETOSTRICTIVE AMORPHOUS MICROWIRES

Panina L.V., Dzhumazoda A., Evstigneeva S.A., Adam A.M., Morchenko A.T., Yudanov N.A., Kostishyn V.G.

2OR-H-6
15:45

ASYMMETRIC MAGNETOIMPEDANCE IN BIMAGNETIC MULTILAYERS

Buznikov N.A., Antonov A.S.

2RP-H-7
16:00

VARIATION OF MICROWAVE MAGNETIC PROPERTIES OF THIN FILMS OF FERROMAGNETIC METALS WITH THE FILM THICKNESS

Bobrovskii S.Y., Iakubov I.T., Lagarkov A.N., Maklakov S.A., Maklakov S.S., Osipov A.V., Rozanov K.N., Ryzhikov I.A., Starostenko S.N., Zezyulina P.A.

2RP-H-8
16:15

FERROMAGNETIC RESONANCE IN THIN Fe AND Co FILMS

Vyzulin S.A., Rozanov K.N., Kevraletin A.L., Syr'ev N.E., Vyzulin E.S.

2RP-H-9 **INTRINSIC PERMEABILITY OF COMPOSITES FILLED WITH SENDUST POWDERS**

16:30

Starostenko S.N., Rozanov K.N., Shiryayev A.O., Shalygin A.N., Lagarkov A.N.

2OR-H-10

16:45

DISPERSION OF LINEAR DENSE METAMATERIALS

Petrov P.S., Radkovskaya A.A., Shamonina E., Kotelnikova O.A.

15:00-17:00

Oral Session

Study of Magnetism using X-rays and Neutrons

Chairperson: Andrei ROGALEV

2TL-O-5 **EXPLORING PROPERTIES OF SINGLE MOLECULE MAGNETS AT THE NANOSCALE USING X-RAY ABSORPTION SPECTROSCOPY**

15:00

Mannini M., Sainctavit Ph.

2TL-O-6

15:30

EUROPEAN XFEL – NOVEL TOOL TO STUDY ULTRAFAST MAGNETIC PHENOMENA

Molodtsov S.L.

2OR-O-7

16:00

ORBITAL ORDERING AS THE UNIFYING MECHANISM FOR BOTH THE STRUCTURAL AND MAGNETIC TRANSITIONS IN THE Fe-BASED SUPERCONDUCTORS

Bao W.

2RP-O-8

16:15

COALESCENCE-DRIVEN, UNCOMPENSATED ANTIFERROMAGNETIC ORDER IN CO DOPED ZnO

Ney V., Henne B., Wilhelm F., Ollefs K., Rogalev A., Ney A.

2OR-O-9

16:30

PROBING MAGNETIC SUBLATTICES IN $\text{Ho}_{0.5}\text{Nd}_{0.5}\text{Fe}_3(\text{BO}_3)_4$ SINGLE CRYSTAL USING X-RAY MAGNETIC CIRCULAR DICHROISM

Platunov M.S., Kazak N.V., Temerov V.L., Dudnikov V.A., Wilhelm F., Rogalev A., Ovchinnikov S.G.

2RP-O-10

16:45

ION IRRADIATION INDUCED DISORDER AND MAGNETISM IN $\text{Fe}_{60}\text{Al}_{40}$ THIN FILMS PROBED BY X-RAYS

Smekhova A., La Torre E., Eggert B., Cöster B., Szyjka Th., Walecki D., Salamon S., Ollefs K., Bali R., Lindner J., Wilhelm F., Rogalev A., Weschke E., Banerjee R., Sanyal B., Schmitz-Antoniak C., Wende H.

15:00-17:00

Oral Session

Theory

Chairperson: Sergei OVCHINNIKOV

2TL-P-7

15:00

QUANTUM RATCHET EFFECT IN A STRONG MAGNETIC FIELD

Ivchenko E.L.

2OR-P-8
15:30

**MAGNON ACTIVATION BY HOT ELECTRONS VIA NON-
QUASIPARTICLE STATES**

Brener S., Murzaliev B., Titov M., Katsnelson M.I.

2RP-P-9
15:45

**MAGNETIC PHASE TRANSITIONS AND SPIRAL ORDERING IN
INTERACTING SYSTEMS OF LOCALIZED AND ITINERANT
ELECTRONS**

Igoshev P.A., Timirgazin M.A., Arzhnikov A.K., Irkhin V.Yu.

2OR-P-10
16:00

**SPIN-DENSITY CORRELATIONS AND SHORT-RANGE ORDER IN
METALS ABOVE THE CURIE TEMPERATURE**

Melnikov N.B., Reser B.I., Paradezhenko G.V.

2RP -P-11
16:15

**MULTIPLICITY OF MANY-PARTICLE STATES NEAR THE METAL-
INSULATOR TRANSITION IN THE HUBBARD MODEL**

Sherman A.

2OR-P-12
16:30

**LANDAU LEVELS AND QUANTUM OSCILLATIONS IN WEYL
SEMIMETALS UNDER CROSSED ELECTRIC AND MAGNETIC FIELDS**

Alisultanov Z.Z., Demirov N.A.

2OR-P-13
16:45

**LAWS OF VOLUME ELASTICITY IN PHYSICAL PROCESSES
AFFECTING LATTICE MODIFICATIONS, PHASE TRANSITIONS,
CONDUCTIVITY AND MAGNETISM**

Polyakov P.I.

17:30-19:30

Poster Session

Magnetic Nanostructures and Low Dimensional Magnetism

Chairperson: Elena SHALYGINA

2PO-I1-25

**CALCULATION OF CPP- AND CIP-MAGNETORESISTANCE IN
MULTILAYER MAGNETIC STRUCTURES**

Romanovskiy D.E., Prudnikov P.V., Prudnikov V.V.

2PO-I1-26

PROXIMITY EFFECT IN Fe/Fe-V SUPERSTRUCTURES

Mukhamedov B.O., Ponomareva A.V., Palonen H., Hjörvarsson B., Abrikosov I.A.

2PO-I1-27

**MAGNETIC PROPERTIES OF $\text{NiFe}_{0.75}\text{Cr}_{1.25}\text{O}_4$ NANOPARTICLES WITH
MAGNETIC COMPENSATION TEMPERATURE**

Starchikov S.S., Lyubutin I.S., Gervits N.E., Lin C.-R., Tseng Y.-T.

2PO-I1-28

QUASI-CLASSICAL LOCALIZED STATES IN THE 2D FERRIMAGNET

Panov Yu.D., Moskvina A.S.

2PO-I1-29

MAGNETIC PROPERTIES OF $\text{Mn}_{2-x}\text{Mg}_x\text{BO}_4$ WARWICKITES

*Muftakhutdinov A.R., Eremina R.M., Mukhamedshin I.R., Matsumoto K.,
Gilmutdinov I.F., Cherosov M.A., Moshkina E., Bezmaternykh L.*

- 2PO-I1-30 **ADSORPTION ENERGY AND SPATIAL DISTRIBUTION OF
MAGNETIZATION FOR CO/CU SYSTEM IN DEPENDENCE OF FILM
THICKNESS AND GROWTH MODES**
Ezhkov P.Yu., Mamonova M.V.
- 2PO-I1-31 **PHASE DYNAMICS IN ARRAYS OF COUPLED VORTEX SPIN-
TORQUE NANO-OSCILLATORS**
Katkova O.S., Safin A.R., Kapranov M.V., Udalov N.N.
- 2PO-I1-32 **FIRST-PRINCIPLE CALCULATIONS OF THE EXCHANGE
INTERACTION CHARACTERISTICS FOR MULTILAYER MAGNETIC
STRUCTURES**
Mamonova M.V., Prudnikov V.V.
- 2PO-I1-33 **THICKNESS IMPACT ON MAGNETIC AND OPTICAL PROPERTIES OF
NANOSIZED FILMS WITH FERROMAGNETIC LAYER**
*Hashim H., Singh S.P., Panina L.V., Pudonin F.A., Sherstnev I.A.,
Podgornaya S.V., Shpetnyy I.*
- 2PO-I1-34 **MAGNETIC Au-Mn NANOWIRES ON COPPER AND SILICON
SUBSTRATES**
Sitnikov I.I., Tsysar K.M., Smelova E.M., Saletsky A.M.
- 2PO-I1-35 **THE STRUCTURAL AND MAGNETIC CHARACTERISTICS OF THE
Co/Cu/Co THIN-FILM SYSTEMS**
*Shalygina E.E., Kharlamova A.M., Makarov A.V., Kurlyandskaya G.V.,
Svalov A.V.*
- 2PO-I1-36 **PECULIARITIES OF THE MAGNETIC PROPERTIES OF THIN-FILM
THREE-LAYER SYSTEMS Fe /POLY(DIPHENYLENE PHTHALIDE)/Fe**
Shalygina E.E., Kharlamova A.M., Makarov A.V., Vorobieva N.V., Lachinov A.N.
- 2PO-I1-37 **DIPOLAR COUPLING DEPENDENT MAGNETIC DOMAIN STRUCTURE
OF EPITAXIAL NANOSTRIP ARRAYS**
Kozlov A.G., Pustovalov E.V., Samardak A.S., Chebotkevich L.A.
- 2PO-I1-38 **POSITIVE-TO-NEGATIVE REMNANT MAGNETIZATION REVERSAL IN
EXCHANGE BIAS TRAINED Ta/NiFe/IrMn/Ta MULTILAYERS**
Talantsev A.D., Elzawawy A.A., Kim Ch.G.
- 2PO-I1-39 **PECULIARITIES OF MAGNETIZATION OF THIN LAYERS OF
MAGNETIC LIQUIDS WITH MAGNETIZED AGGREGATES**
Gladkikh D.V., Dikansky Yu.I., Ispiryanyan A.G.
- 2PO-I1-40 **HYSTERESIS LOOP TUNING BY CONFIGURATION OF EXTERNAL
MAGNETIC FIELD APPLIED DURING DEPOSITION OF
THIN FILMS STRUCTURE COMPOSED OF NiFe AND IrMn LAYERS**
Gritsenko Ch., Rodionova V., Babaytsev G., Dzhun I., Chechenin N.
- 2PO-I1-41 **ON THE NATURE OF INTRODUCED ANISOTROPY OF CoP FILMS
RECEIVED BY CHEMICAL DEPOSITION**
Chzhan A.V., Podorozhnyak S.A., Volochaev M.N., Patrino G.S.

2PO-I1-42 **MAGNETIC PROPERTIES OF NANOPARTICLES PREPARED FROM α -FE TARGET BY LASER ABLATION IN LIQUIDS**
Nosan M.M., Omelyanchik A.S., Samusev I.G., Myslitskaya N.M., Borkunov R.Y.,
Rodionova V.V.

2PO-I1-43 **MAGNETIC PROPERTIES OF FE-CO AND FE-NI NANOWIRES OBTAINED IN PORES OF THE TRACK-ETCHED POLYMER MEMBRANES**
Perunov I.

2PO-I1-44 **THERMODYNAMIC PROPERTIES OF $\text{Fe}_7(\text{PO}_4)_6$ AND $\text{Na}_x\text{Fe}_7(\text{PO}_4)_6$**
Kozlyakova E.S., Danilovich I.L., Shvanskaya L.V., Dimitrova O.V., Chareev D.A.,
Zvereva E.A., Sobolev A.V., Presniakov I.A., Vasiliev A.N., Volkova O.S.

2PO-I1-45 **STUDY THE Ni-Ge INTERFACE EFFECT ON MAGNETIC PROPERTIES OF THE Ni/Ge LAYERED FILMS**
Chernichenko A.V., Samoshkina Yu.E.

2PO-I1-46 **DIPOLAR INTERACTIONS AND MAGNETIC HYSTERESIS IN RANDOM ARRAY OF SINGLE-DOMAIN NANOPARTICLES**
Li O.A., Komogortsev S.V., Fel'k V.A.

2PO-I1-47 **FMR STUDY OF THE COMPETITION BETWEEN SHAPE ANISOTROPY AND MAGNETO-CRYSTALLINE ANISOTROPY IN CuCr_2Se_4 THIN FILMS**
Rautskii M.V., Ester M., Johnson D.C.

17:30-19:30

Poster Session

Magnetic Nanostructures and Low Dimensional Magnetism 2

Chairperson: Victor ZUBOV

2PO-J-24 **THE COMPARISON OF MAGNETIC STRUCTURES OF LOW-DIMENSIONAL SPIN FRUSTRATED M^+ABO_6**
Kuchugura M.D., Kurbakov A.I., Senyshyn A., Nalbandyan V.B.

2PO-J-25 **NOVEL COBALT-BASED SOLID STATE SINGLE-ION MAGNET: DIOXOCOBALTATE (II) IONS IN STRONTIUM APATITE MATRIX**
Zykin M.A., Kazin P.E., Vasiliev A.V., Jansen M.

2PO-J-26 **INFLUENCE OF HYDROGENATION ON MAGNETORESONANCE CHARACTERISTICS OF NANOCOMPOSITE $(\text{CoFeB})_m\text{C}_{100-m}$ FILMS**
Vysulin S.A., Kevraletin A.L., Syr'ev N.E.

2PO-J-27 **CALCULATION OF INVERSE OPAL-LIKE STRUCTURE MAGNETIC FORM FACTOR BY MEANS OF MICROMAGNETIC SIMULATION**
Dubitskiy I., Syromyatnikov A., Mistonov A., Grigoryeva N., Shishkin I.,
Grigoriev S.

2PO-J-28 **INVESTIGATION OF THE HARD/SOFT MAGNETIC BILAYER MODEL BY THE MONTE-CARLO METHOD**
Taaev T.A., Khizriev K.Sh., Murtazaev A.K.

- 2PO-J-29 **MAGNETIC VORTEXES CLUSTERING IN NANOCRYSTALLINE
MAGNETIC FILM**
Shadrina G.V., Felk V.A., Komogortsev S.V.
- 2PO-J-30 **BARKHAUSEN NOISE IN Co/IrMn FILMS WITH UNIDIRECTIONAL
ANISOTROPY**
Shashkov I.V., Gornakov V.S.
- 2PO-J-31 **EXCHANGE PERCOLATION EFFECTS IN MAGNETIZATION CURVES
OF GRANULAR NANOLAYER**
Felk V.A., Komogortsev S.V., Iskhakov R.S., Shadrina G.V.
- 2PO-J-32 **MAGNETIC PROPERTIES OF COBALT MICROSPHERES**
Novakova A.A., Perov N.S., Levina V.V., Dolzhikova A., Shatrova N.
- 2PO-J-33 **SUPERPARAMAGNETIC BEHAVIOR OF TITANIUM NICKELIDE
NANOPARTICLES OBTAINED BY LASER ABLATION**
*Drozдова A.K., Cherepanov V.N., Svetlichny V.A., Kveglis L.I., Volochaev M.N.,
Velikanov D.A.*
- 2PO-J-34 **THE Ag INCLUSION EFFECT IN MCD AND MAGNETIC PROPERTIES
OF Fe₃O₄ NANOPARTICLES SYNTHESIZED WITH CHEMICAL
METHOD**
*Petrov D.A., Ivantsov R.D., Zharkov S.M., Lin C.-R., Tso C.-T., Hsu H.-S.,
Tseng Y.-T.*
- 2PO-J-35 **MAGNETIC PROPERTIES OF NANOSTRUCTURED
(SrFe₁₂O₁₉)_x(CaCu₃Ti₄O₁₂)_{1-x} COMPOSITES**
*Gavrilova T., Deeva J., Yatsyk I., Yagfarova A., Gilmutdinov I., Lyadov N.,
Chupakhina T., Eremina R.*
- 2PO-J-36 **UNUSIAL MAGNETIC EXCITATIONS IN A WEAKLY ORDERED SPIN-
1/2 CHAIN ANTIFERROMAGNET SR₂CUO₃**
Sergeicheva E.G., Sosin S.S., Prozorova L.A., Gu G.D., Zaliznyak I.A.
- 2PO-J-37 **TRANSITION STRUCTURES ON S-SHAPED DOMAIN WALLS IN IRON
AND PERMALLOY FILMS**
Baykenov E.Z., Dubovik M.N., Zverev V.V., Filippov B.N.
- 2PO-J-38 **INTERFACE EFFECTS IN ULTRA-THIN BI-SUBSTITUTED IRON
GARNET FILMS GROWN ON SI SIBSTRATE**
*Dyuzhev N.A., Kirilenko E.P., Logunov M.V., Mazurkin N.S., Nikitov S.A.,
Stognij A.I.*
- 2PO-J-39 **MAGNETIC CORRELATIONS IN GRANULAR CO-BAZED
NANOCOMPOSITE WITH AMORPHOUS AND CRYSTALLINE MATRIX**
*Iskhakov R.S., Denisova E.A., Komogortsev S.V., Chekanova L.A., Kalinin Yu.E.,
Sitnikov A.V.*
- 2PO-J-40 **MAGNETISM OF NATURAL COMPOSITES OF HALLOYSITE CLAY
NANOTUBES AND AMORPHOUS HEMATITE**
*Vasiliev A.N., Volkova O.S., Presniakov I.A., Sobolev A.V., Abakumov A.M.,
Koshelev A.V.*

- 2PO-J-41 **PREPARATION AND MAGNETIC PROPERTIES OF IRON-BASED POWDERS**
Chekanova L.A., Stolyar S.V., Bayukov O.A., Knyazev Yu.V., Iskhakov R.S., Yaroslavtsev R.N., Volochaev M.N., Chizhova I.A.
- 2PO-J-42 **SINGLE-ION MAGNETS BASED ON 3D-ELEMENTS CONFINED IN THE CHANNELS OF APATITE**
Kazin P.E., Zykin M.A., Trusov L.A., Gorbachev E.A., Jansen M.
- 2PO-J-43 **STUDY OF MAGNETIC BEHAVIOR OF MAGNETITE NANOPARTICLES DISPERSED IN FLUID**
Omelyanchik A., Laureti S., Varvaro G., Rodionova V., Kusigerski V., Knezevic N., Peddis D., Illés E.
- 2PO-J-44 **STATIC AND DYNAMIC MAGNETIC PROPERTIES OF TRIANGULAR LAYERED OXIDES MSb_2O_6 (M = Mn, Co, Ni, Cu)**
Zvereva E.A., Raganyan G.V., Nikulin A.Yu., Nalbandyan V.B., Shukaev I.L., Kurbakov A.I., Kuchugura M.D., Vasiliev A.N.
- 2PO-J-45 **MAGNETIC PROPERTIES OF TRIANGULAR LATTICE FRUSTRATED A_2MnXO_4 (A = Li, Na, Ag; X = Si, Ge)**
Zvereva E.A., Denisov R.S., Nalbandyan V.B., Shukaev I.L., Gordon E., Politaev V.V., Whangbo M.-H., Petrenko A.A., Markina M.M., Tzschoppe M., Klingeler R., Vasiliev A.N.

17:30-19:30

Poster Session

Magnetic Nanostructures and Low Dimensional Magnetism 3

Chairperson: Valeriy PRUDNIKOV

- 2PO-K-26 **MODIFICATION OF MAGNETIC PROPERTIES OF α - Fe_2O_3 POWDERS AFTER ULTRASONIC TREATMENT**
Stolyar S.V., Bayukov O.A., Iskhakov R.S., Yaroslavtsev R.N., Ladygina V.P., Artemyeva A.S.
- 2PO-K-27 **NOVEL MAGNETICALLY FRUSTRATED MANGANESE PHOSPHATE $\text{Mn}_2(\text{PO}_4)\text{OH}$ WITH TRIPLOIDITE CRYSTAL STRUCTURE**
Shvanskaya L.V., Yakubovich O.V., Dimitrova O.V., Volkova O.S., Vasiliev A.N.
- 2PO-K-28 **NMR STUDY OF THE PARAMAGNETIC STATE OF LOW-DIMENSIONAL MAGNETS LiCu_2O_2 AND NaCu_2O_2**
Sadykov A.F., Piskunov Yu.V., Gerashenko A.P., Ogloblichev V.V., Smolnikov A.G., Verkhovskii S.V., Volkova Z.N.
- 2PO-K-29 **THE MEMRISTOR EFFECT IN THE FILM NANOCOMPOSITES $\text{Co}_x(\text{TiO}_2)_{100-x}$, $(\text{Co}_{41}\text{Fe}_{39}\text{B}_{20})_x(\text{TiO}_2)_{100-x}$**
Kalinin Yu.E., Sitnikov A.V., Rylkov V.V., Korolev K.G., Ryzhkova G.S.
- 2PO-K-30 **TWO-LATTICE EXCHANGE-ANISOTROPIC NEMATICS WITH $S = 1$**
Kosmachev O.A., Krivtsova A.V., Fridman Yu.A., Vernadsky V.

- 2PO-K-31 **MAGNETIC RESONANCE OF THE DOPED “TRIANGULAR”
ANTIFERROMAGNET $\text{RbFe}(\text{MoO}_4)_2$**
*Soldatov T.A., Smirnov A.I., Kida T., Takata A., Hagiwara M., Petrenko O.,
Zhitomirsky M., Shapiro A.Ya.*
- 2PO-K-32 **VISUALIZATION OF 3D VORTEX CORE DYNAMICS
IN MOVING DOMAIN WALLS (MICROMAGNETIC SIMULATIONS)**
Izmozherov I.M., Zverev V.V., Filippov B.N., Dubovik M.N.
- 2PO-K-33 **CRITICAL PHENOMENA USING ANTIFERROMAGNETIC WITH
NEAREST-NEIGHBOR AND NEXT-NEAREST-NEIGHBOR
INTERACTIONS ON A TRIANGULAR LATTICE**
Murtazaev A.K., Ramazanov M.K., Badiev M.K., Kurbanova D.R.
- 2PO-K-34 **FEATURES OF THE MAGNETIC STATE OF NIOBIUM DISELENIDE
AND NIOBIUM DISELENIDE INTERCALATED WITH GADOLINIUM**
Pleshchev V.G., Sherokalova E.M., Selezneva N.V., Simonov M.N.
- 2PO-K-35 **ELECTRICAL PROPERTIES OF FERROMAGNETIC-INSULATOR
NANOCOMPOSITES AND MULTILAYER NANOSTRUCTURES BASED
ON THEM**
Kalinin Yu.E., Makagonov V.A., Sitnikov A.V., Granovsky A.B.
- 2PO-K-36 **INFLUENCE OF TECHNOLOGICAL PARAMETERS ON THE
MAGNETO-OPTICAL PROPERTIES OF NANOCOMPOSITE-
SEMICONDUCTOR MULTILAYERS**
Gan'shina E.A., Buravtsova V.E., Kalinin Yu.E., Sitnikov A.V.
- 2PO-K-37 **THERMODYNAMICS OF BIDISPERSE SYSTEM OF DIPOLAR HARD
SPHERES**
Vtulkina E.D., Elfimova E.A.
- 2PO-K-38 **SURFACE MAGNETISM AND MORPHOLOGY OF FeBO_3 SINGLE
CRYSTALS**
*Yagupov S., Strugatsky M., Maksimova E., Nauhatsky I., Seleznyova K.,
Mogilenec Yu., Zubov V.*
- 2PO-K-39 **INTERACTION OF MAGNETIC ELEMENTS IN METALLIC
FERROMAGNETIC NANO-FILM**
Panaetov V.P.
- 2PO-K-40 **CRITICAL PROPERTIES OF 2D DISORDERED ANTIFERROMAGNETIC
3-STATE POTTS MODEL ON TRIANGULAR LATTICE**
Murtazaev A.K., Babaev A.B., Ataeva G.Y.
- 2PO-K-41 **HYDROTHERMAL TREATMENT AND MAGNETIC PROPERTIES OF
 $\text{TiO}_2\text{-Fe}_3\text{O}_4$ COMPOSITES**
Kharitonskii P.V., Gareev K.G., Kirillova S.A., Kosterov A.A., Sergienko E.S.
- 2PO-K-42 **SURFACE MAGNETOCRYSTALLINE ANISOTROPY OF FeBO_3 SINGLE
CRYSTALS**
Strugatsky M., Seleznyova K., Zubov V., Kliava J.

- 2PO-K-43 **NUCLEATION MODES OF THIN AMORPHOUS FERROMAGNETIC FILM WITH SURFACE ANISOTROPY**
Serebryakova O.N., Usov N.A.
- 2PO-K-44 **SYNTHESIS OF METAL COATINGS USING ARABINOGLACTAN AND THEIR MAGNETIC PROPERTIES**
Chekanova L.A., Yaroslavtsev R.N., Stolyar S.V., Iskhakov R.S.
- 2PO-K-45 **MAGNETIC PROPERTIES OF THE NANOCOMPOSITES FABRICATED IN PULSE HIGH-VOLTAGE DISCHARGE PLASMA USING POLYTETRAFLUOROETHYLENE**
Kuryavyi V.G., Bouznic V.M., Tkachenko I.A., Kvach A.A.
- 2PO-K-46 **SPIN-WAVE RESONANCE IN HETEROGENEOUS MAGNETIC Co-Ni FILMS**
Vazhenina I.G., Iskhakov R.S., Chekanova L.A.
- 2PO-K-47 **BIOFUNCTIONALIZED MAGNETIC MICRODISCS APPLIED IN MEDICINE**
Smolyarova T.E., Lukyanenko A.V., Tarasov A.S., Rautskii M.V., Bondarev I.A., Ovchinnikov S.G., Volkov N.V.
- 2PO-K-48 **TOPOLOGICALLY NONEQUIVALENT DOMAIN STRUCTURES NEAR MAGNETIC COMPENSATION TEMPERATURE IN IRON GARNET CRYSTALS**
Pamyatnykh L.A., Agafonov L.Y., Belskii I.E.

17:30-19:30

Poster Session

Magnetic Nanostructures and Low Dimensional Magnetism 4

Chairperson: Oksana KOPLAK

- 2PO-I-23 **OPTIMIZATION OF THE GMR-STACK DESIGN IN MAGNETIC FIELD SENSORS BY MICROMAGNETIC SIMULATIONS**
Berkov D., Gorn N., Semenova O., Mattheis R.
- 2PO-I-24 **MÖSSBAUER STUDY OF INCOMMENSURATE SPIRAL SPIN STRUCTURES IN SOME ORDERED IRON-BASED ALLOYS**
Voronina E.V., Ivanova A.G., Arzhnikov A.K., Chumakov A.I., Chistyakova N.I., Pyataev A.V., Korolyov A.V.
- 2PO-I-25 **INHOMOGENEOUS BROADENING OF THE FMR LINE OF FERROMAGNETIC SILICIDE FILMS MADE BY ION-BEAM SYNTHESIS IN EXTERNAL MAGNETIC FIELD**
Alekseev A.V., Gumarov G.G., Petukhov V.Yu., Bakirov M.M.
- 2PO-I-26 **STRUCTURE OF MAGNETIC REGIONS AND CURRENT LOSS IN COMPOSITE FILMS**
Lasek M.P., Kotov L.N., Kirpicheva O.A., Beznosikov D.S., Golubev E.A., Kalinin Yu.E., Sitnikov A.V.

- 2PO-I-27 **INFLUENCE OF STATIC CONDUCTIVITY AND STRUCTURE OF COMPOSITE FILMS ON MAGNETIC PROPERTIES**
Kirpicheva O.A., Lasek M.P., Kotov L.N., Beznosikov D.S., Golubev E.A., Kalinin Yu.E., Sitnikov A.V.
- 2PO-I-28 **ON-SITE 4F-5D FLUCTUATIONS AND SDW EXCITATIONS AS THE CHARGE CARRIERS SCATTERING CHANNELS IN HoB₁₂**
Khoroshilov A.L., Krasnorussky V.N., Bogach A.V., Glushkov V.V., Demishev S.V., Shitsevalova N.Yu., Levchenko A., Filipov V.B., Gabáni S., Flachbart K., Siemensmeyer K., Sluchanko N.
- 2PO-I-29 **RELATIONSHIP BETWEEN STRUCTURAL AND MAGNETIC, OPTICAL PROPERTIES OF EPITAXIAL Fe_{1-x}Si_x/Si(111) ALLOY FILMS**
Tarasov I.A., Yakovlev I.A., Volochaev M.N., Zhandun V.S., Velikanov D.A., Kuznetsova T.V., Kravtsov E.A., Varnakov S.N., Balymov K.G., Pryahina V., Kosyrev N.N., Shemukhin A., Ovchinnikov S.G.
- 2PO-I-30 **RESEARCHING OF PROPERTIES OF MAGNETIC THIN FILMS FOR STORAGE DEVICES**
Valiullin A.A., Kamzin A.S., Tagirov L.R., Zaripova L.D.
- 2PO-I-31 **HYSTERESIS PROPERTIES OF FeMn/GdxCo_{100-x} FILMS**
Vas'kovskiy V.O., Gorkovenko A.N., Adanakova O.A., Lepalovskij V.N., Svalov A.V.
- 2PO-I-32 **THERMAL-RADIATION MODIFICATION OF NANOSTRUCTURE AND OPTICAL PROPERTIES OF POTASSIUM-ALUMINA-BORON GLASSES WITH IRON OXIDES**
Ibragimova E.M., Salakhitdinov A.N., Salakhitdinova M.K., Saydirasulov N., Yusupov A.A.
- 2PO-I-33 **WANG-LANDAU SIMULATIONS OF THE ISING MODEL ON THE KAGOME LATTICE**
Magomedov M.A., Murtazaev A.K.
- 2PO-I-34 **NMR ⁵⁹CO STUDY OF LOCAL MAGNETIC STRUCTURE OF COBALT NANOPARTICLES**
Shmyreva A.A., Mazur A.S., De Renzi R., Allodi G., Yurkov G.Y.
- 2PO-I-35 **ULTRA-THIN Pd_(1-x)Fe_x FILMS SYNTHESIS AND STUDIES OF THEIR COMPOSITION, MORPHOLOGY, STRUCTURAL AND MAGNETIC PROPERTIES**
Esmaili A., Vakhitov I.R., Nikitin N.P., Yanilkin I.V., Gumarov A.I., Gabbasov B.F., Rogov A.M., Aliyev M.N., Yusupov R.V., Tagirov L.R.
- 2PO-I-36 **CONCENTRATION-DEPENDENT ANTIFERROMAGNETIC CORRELATIONS IN MULTI-SITE Sr(Y_{1-x}Yb_x)₂O₄ OXIDES**
Batulin R.G., Gabbasov B.F., Gilmutdinov I.F., Kiiamov A.G., Malkin B.Z., Mumdzhi I.E., Nikitin S.I., Petrenko O.A., Yusupov R.V., Zverev D.G.
- 2PO-I-37 **ATOMIC ORDERING AND COERCIVE FORCE OF NANOCRYSTALLINE Fe-Co ALLOY FILMS**
Repina N.M.

- 2PO-I-38 **MAGNETIC SENSING ENHANCEMENT IN AMORPHOUS MICRO- WIRES VIA FLASH SNNE SLING**
Adam A.M.², Ahmed M., Panina L.V., Salem M.M., Dzhumazoda A., Nematov M.G.
- 2PO-I-39 **THE INFLUENCE OF OXYGEN ON QUANTUM MAGNETIC PROPERTIES OF CO NANOWIRES DEPOSITED ON Au AND Pt SURFACES: AB INITIO APPROACH**
Koshelev Y.S., Bazhanov D.I.
- 2PO-I-40 **MAGNETOOPTICAL INVESTIGATION OF MAGNETIZATION REVERSAL IN HEXAGONAL ANTIDOT LATTICES**
Kulesh N.A., Lepalovskij V.N., Balymov K.G., Palmero E.M., Vas'kovskiy V.O., Vázquez M.
- 2PO-I-41 **MONTE CARLO SIMULATION OF DYNAMIC PHASE TRANSITIONS IN MULTIFERROIC FILMS**
Zharmukhametov A.R., Nugumanov A.G., Yuldasheva A. R.
- 2PO-I-42 **INFLUENCE OF INTERFACE ROUGHNESS ON UNIDIRECTIONAL ANISOTROPY IN FeNi/TbCo FILMS**
Balymov K.G., Turygin A.P., Adanakova O.A., Kulesh N.A., Svalov A.V., Vas'kovskiy V.O.
- 2PO-I-43 **HYSTERESIS PROPERTIES OF FeMn/GdxCo100-x FILMS**
Vas'kovskiy V.O., Gorkovenko A.N., Adanakova O.A., Lepalovskij V.N., Svalov A.V.
- 2PO-I-44 **COMPARATIVE STUDY OF THE MICROSTRUCTURE, MAGNETIC AND MAGNETORESISTIVE PROPERTIES OF Co-Cu AND Co-Al₂O₃ COMPOSITE FILMS**
Gorkovenko A.N., Lepalovskij V.N., Adanakova O.A., Kudyukov E.V., Vas'kovskiy V.O.
- 2PO-I-45 **TEMPERATURE-DEPENDENT FORC PROBING OF MAGNETIC NANOSPRING AND NANOWIRE ARRAYS**
Samardak A.Yu., Chebotkevich L.A., Ognev A.V., Samardak A.S., Nam D.Y., Kim S.H., Jeon Y.S., Kim Y.K.
- 2PO-I-46 **MONTE CARLO SIMULATION OF AGING PHENOMENA IN MULTILAYER MAGNETIC STRUCTURES**
Purtov A.N., Prudnikov P.V., Prudnikov V.V.

3 July, Monday

9:30-11:00

Plenary Lectures

Chairperson: Anatoly ZVEZDIN

3PL-A-1

9:30

MAGNETS AS ENABLERS FOR RENEWABLE ENERGY AND RESOURCE EFFICIENCY

Gutfleisch O.

3PL-A-2

10:15

CONSERVATION OF ANGULAR MOMENTUM AND SPIN CURRENTS IN SYSTEMS WITH SPIN-ORBIT TORQUES

Demokritov S.O.

11:30-13:15

Oral Session

Spintronics and Magnetotransport

Chairperson: Sergey DEMISHEV

3TL-A-1

11:30

ENHANCEMENT OF THE EFFICIENCY OF SPIN TRANSFER TORQUE SWITCHING IN A PERPENDICULARLY MAGNETIZED FREE LAYER BY THE SECOND-ORDER UNIAXIAL MAGNETIC ANISOTROPY

Matsumoto R., Arai H., Yuasa S., Imamura H.

3TL-A-2

12:00

MAGNETORESISTANCE AND SPIN MANIPULATION FOR DEVICE APPLICATIONS

Yuasa S.

3TL-A-3

12:30

LATERAL NANO-SPINTRONIC DEVICES

Hirohata A., Samiepour M., Kim J.-Y., Jackson E., Abdullah R.M., Murphy B.A.,
Vick A.J.

3RP-A-11

13:15

MICROSCOPIC ORIGIN OF DZIALOSHINSKII-MORIYA INTERACTION

Ono T.

11:30-13:15

Oral Session

Diluted Magnetic Semiconductors and Oxides

Chairperson: Sergey STRELTSOV

3TL-B-1

11:30

ORBITAL-SELECTIVE EFFECTS IN TRANSITION METAL COMPOUNDS: “MOLECULES” IN SOLIDS AGAINST MAGNETISM

Khomskii D.I.

3TL-B-2

12:00

EXCITONIC INSULATING PHASE IN CORRELATED MAGNETIC OXIDES

Ishihara S., Tatsun T., Nasu J., Naka M.

3OR-B-3
12:30
VIBRONIC INTERACTION AS MAIN REASON OF MAGNETIC ORDERING IN INSULATING MANGANITES $R_{1-x}A_xMnO_3$
Gonchar L.E., Nikiforov A.E.

3RP-B-4
12:45
ROLE OF LOCAL GEOMETRY IN THE SPIN AND ORBITAL STRUCTURE OF TRANSITION METAL COMPOUNDS
Kugel K.I., Khomskii D.I., Sboychakov A.O., Streltsov S.V.

3RP-B-5
13:00
LATTICE COMPLEXITY NEAR A LIFSHITZ TRANSITION IN STRONGLY CORRELATED SYSTEMS
Bianconi A., Campi G., Ivanov V.G., Ivanov A.A., Menushenkov A.P.

11:30-13:00

Oral Session

Magnetism and Superconductivity

Chairperson: Wolfgang BELZIG

3TL-D-1
11:30
SPONTANEOUS SPIN MAGNETIZATION OF TWO-DIMENSIONAL CORRELATED ELECTRON SYSTEM
Pudalov V.M., Kuntsevich A.Yu., Morgun L.A., Reznikov M.

3TL-D-2
12:00
SUPERCONDUCTING PROXIMITY EFFECTS IN THE NIOBIUM/ERBIUM SYSTEM
Satchell N., Witt J.D.S., Flokstra M.G., Lee S.L., Cooper J.F.K., Kinane C.J., Langridge S., Burnell G.

3TL-D-3
12:30
SUPERCONDUCTING NANOWIRES UNDER FERROMAGNETIC PROXIMITY EFFECT
Petrashov V.T., Wren T., Marsh R., Wells J., Shelly C.

11:30-13:15

Oral Session

Magnetophotonics and Ultrafast Magnetism

Chairperson: Alexandra KALASHNIKOVA

3TL-E-1
11:30
NONLINEAR AND PARAMETRIC FREQUENCY MIXING IN ACOUSTO-MAGNETO-PLASMONICS
Temnov V.V., Tran N.M., Traum C., Alekhin A., Juvé V., Vaudel G., Makarov D., Seletskiy D., Razdolski I., Lomonosov A., Vlasov V.S., Janusonis J., Chang C., Tobey R.

3OR-E-2
12:00
PHONON DRIVING MAGNETIZATION PRECESSION IN FERROMAGNETIC NANOGRATINGS
Salasyuk A.S., Rudkovskaya A.V., Danilov A.P., Glavin B.A., Rushforth A.W., Sokolov S.V., Nekludova P.A., Elistratov A.A., Yakovlev D.R., Akimov A.V., Bayer M., Scherbakov A.V.

3TL-E-3
12:15

CLOCKED LASER EXCITATION OF SPIN WAVES IN MAGNETIC FILMS

Belotelov V.I.

3RP-E-4
12:45

TERAHERTZ SPECTROSCOPY AS A PROBE OF ULTRAFAST SPINTRONICS PHENOMENA IN MAGNETIC HETEROSTRUCTURES

Mikhaylovskiy R.V.

3RP-E-5
13:00

DIGITIZATION OF LABYRINTH DOMAIN STRUCTURE IMAGES OBTAINED BY POLARIZED LIGHT MICROSCOPY IN FERRITE-GARNET FILMS

Ivanov O.V., Shalygina E.E., Ignatov M.S., Magnitskaya M.V., Uspenskii Yu.A., Shalygin A.N.

11:30-13:00

Oral Session

Multiferroics

Chairperson: Vladimir PREOBRAZHENSKY

3TL-F-1
11:30

QUANTUM CRITICALITY WITHOUT ELECTRONS

Saxena S.S.

3OR-F-2
12:00

ON THE PROBLEM OF STATIC STABILITY OF A CYLINDRICAL MAGNETIC DOMAIN IN ELECTRIC FIELD. THE NEW WAY OF MAGNETIC BUBBLE BLOWING

Pyatakov A.P., Kulikova D.P., Sergeev A.S., Zvezdin A.K.

3RP-F-3
12:15

MAGNETIC TOPOLOGICAL STRUCTURES IN MULTIFERROICS

Zvezdin A.K., Gareeva Z.V.

3OR-F-4
12:30

POLARIZABILITY OF ELECTRICALLY INDUCED MAGNETIC VORTEX "ATOMS"

Karpov P.I., Mukhin S.I.

3OR-F-5
12:45

THE COULOMB BASED MAGNETO-ELECTRIC COUPLING IN MULTIFERROIC TUNNEL JUNCTIONS

Udalov O.G., Beloborodov I.S.

11:30-13:00

Oral Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Pavel KUZHIR

3TL-G-1
11:30

INITIAL DYNAMIC SUSCEPTIBILITY OF MAGNETIC FLUIDS: EXPERIMENT, THEORY, AND COMPUTER SIMULATIONS

Ivanov A.O., Kantorovich S.S., Elfimova E.A., Zverev V.S., Lebedev A.V., Pshenichnikov A.F., Camp P.J.

3TL-G-2
12:00

SYNCHRONOUS ROTATION OF MAGNETOTACTIC BACTERIA

Belovs M., Livanovics R., Cebers A.

3TL-G-3
12:30

**DISPERSIONS OF MAGNETIC NANOPARTICLES IN A DEEP
EUTECTIC SOLVENT (CHOLINE UREA):
MAGNETIC PROPERTIES AND COLLOIDAL STABILITY**
Kern C., Gomide G., Aquino R., Depeyrot J., Dubois E., Perzynski R., Peyre V.

11:30-13:00

Oral Session

Study of Magnetism using X-rays and Neutrons

Chairperson: Sergey GRIGORIEV

3TL-H-1
11:30

**STUDIES OF MAGNETISM BY NUCLEAR RESONANCE SCATTERING
OF SYNCHROTRON RADIATION**
Chumakov A.I.

3TL-H-2
12:00

**EXCHANGE BIAS IN THIN CO-COO FILMS: INNER SECRETS
REVEALED BY POLARIZED NEUTRON REFLECTIVITY**
*Temst K., Menendez E., Demeter J., Steitz R., Wildes A.R., Mohd A.S.,
Koutsioumaps A., Babcock E., Mattauch S., Nogués J., Vantomme A.*

3TL-H-3
12:30

**MAGNETISM AT EXTREME CONDITIONS: THEORY MEETS X-RAY
AND NEUTRONS EXPERIMENTS**
Abrikosov I.A.

11:30-13:00

Oral Session

Magnetism in Biology and Medicine

Chairperson: Jurgen KOSEL

3TL-O-1
11:30

**IN-VITRO AND IN-VIVO SCREENING OF MAGNETIC
NANOPARTICLES**
Roig A.

3TL-O-2
12:00

**HYSTERESIS LOSSES AND SPECIFIC ABSORPTION RATE
MEASUREMENTS IN MAGNETIC NANOPARTICLES FOR
HYPERTHERMIA APPLICATIONS**
Coisson M., Barrera G., Celegato F., Martino L., Tiberto P.

3TL-O-3
12:30

**NOVEL APPLICATIONS OF MAGNETIC MATERIALS AND
TECHNOLOGIES FOR MEDICINE**
Tishin A.M., Zverev V.I., Pyatakov A.P., Shtil A.A.

11:30-13:15

Oral Session

Magnetic Nanostructures and Low Dimensional Magnetism

Chairperson: Alexander SAMARDAK

MAGNETIC NANOWIRES AND NANOTUBES AS BUILDING BLOCKS FOR A 3D RACE-TRACK MEMORY

3TL-C-1
11:30

*Staño M., Schaefer S., Wartelle A., Thirion C., Rioult M., Belkhou R., Sala A.,
Mentes T.O., Locatelli A., Cagnon L., Fernandez-Roldan J. A., Trapp B.,
Bochmann S., Martin S., Gautier E., Vazquez M., Bachmann J., Gusakova D.,
Toussaint J.C., Ensinger W., Fruchart O.*

NANOMAGNET FABRICATION BY ION BEAMS

3TL-C-2
12:00

Fassbender J.

INVESTIGATING ENHANCED AND METASTABLE MAGNETISM IN SIZE- AND SHAPE-SELECTED, INDIVIDUAL NANOPARTICLES

3TL-C-3
12:30

Kleibert A.

SPIN ORDERING IN SEMICONDUCTOR NANOPARTICLES WITHOUT MAGNETIC ELEMENT ATOMS

3RP-C-4
13:15

Uspenskii Yu.A., Baturin V.S., Lepeshkin S.V., Fokina N.A.

11:30-13:15

Oral Session

High Frequency Properties and Metamaterials

Chairperson: Konstantin ROZANOV

NONLINEAR INTERACTIONS OF SURFACE ELASTIC WAVES WITH MAGNETIZATION IN METAL FILMS

3OR-P-1
11:30

Vlasov V.S., Lomonosov A.M., Makarov P.A., Shcheglov V.I., Kotov L.N.

SPIN-WAVE RESONANCE IN GRADIENT THIN FILMS

3OR-P-2
11:45

Ignatchenko V.A., Tsikalov D.S.

NONLINEAR SWITCHING OF SPIN WAVES IN THE SIDE-COUPLED MAGNONIC WAVEGUIDES

3OR-P-3
12:00

*Odintsov S.A., Sadovnikov A.V., Beginin E.N., Sheshukova S.E., Sharaevskii Yu.P.,
Nikitov S.A.*

SPIN WAVES SPECTROSCOPY OF YTTRIUM IRON GARNET FILMS GROWN BY ION BEAM EVAPORATION

3OR-P-4
12:15

Sakharov V.K., Khivintsev Y.V., Stognij A.I., Vysotskii S.L., Filimonov Y.A.

ELECTRON SPIN RESONANCE ANISOTROPY IN THE ANTIFERROQUADRUPOLEAR PHASE OF CeB₆

3OR-P-5
12:30

*Semenov A.V., Gilmanov M.I., Sluchanko N.E., Krasnorussky V.N.,
Shitsevalova N.Yu., Filipov V.B., Demishev S.V.*

HIGH- T_c SUPERCONDUCTING Bi₂Sr₂CaCu₂O_{8+δ} PLASMONIC TERAHERTZ METAMATERIAL

3OR-P-6
12:45

Kalhor S., Ghanaatshoar M., Kashiwagi T., Kadowaki K., Delfanazari K.

EXPERIMENTAL STUDY OF MICROWAVE PROPERTIES OF COMPOSITES FILLED WITH PERMALLOY POWDER

3OR-P-7
13:00

Bobrovskii S.Y., Garanov V.A., Naboko A.S., Osipov A.V., Rozanov K.N.

11:30-13:00**Oral Session****Low Dimensional Magnetism****Chairperson: Vasiliy GLAZKOV**

- 3TL-LT-1
11:30
PHASE COEXISTENCE, LATTICE AND MAGNETIC INSTABILITIES IN $\text{Cu}_3\text{Bi}(\text{SeO}_3)_2\text{O}_2\text{X}$ ($\text{X} = \text{Br}, \text{Cl}$)
Gnezdilov V., Pashkevich Yu., Lemmens P., Kurnosov V., Berdonosov P., Dolgikh V., Kuznetsova E., Pryadun V., Zakharov K., Vasiliev A.
- 3TL-LT-2
12:00
MAGNETIC STRUCTURE OF QUASI-2D ANTIFERROMAGNET CuCrO_2 IN THE ELECTRIC FIELD
Gotovko S.K., Svistov L.E., Sakhratov Yu.A., Kuhns P.L., Reyes A.P., Kweon J.J., Choi E.S., Zhou H.D.
- 3OR-LT-3
12:30
THE ORIGIN OF FINE STRUCTURE IN MAGNETIZATION CURVE OF $\alpha\text{-CoV}_2\text{O}_6$
Kudasov Yu.B., Kozabaranov R.V.
- 3OR-LT-4
12:45
ORDER BY STRUCTURAL DISORDER IN A DOPED TRIANGULAR ANTIFERROMAGNET $\text{RbFe}(\text{MoO}_4)_2$
Smirnov A.I., Soldatov T.A., Petrenko O.A., Kida T., Takata A., Hagiwara M., Shapiro A.Ya., Zhitomirsky M.E.

12:00-14:00**Poster Session****Spintronics and Magnetotransport****Chairperson: Nikita STRELKOV**

- 3PO-I1-1
MAGNETORESISTIVE EFFECT IN $\text{Co}_x(\text{MgF}_2)_{100-x}$ OXYGEN-FREE NANOCOMPOSITES
Tregubova T.V., Stognei O.V., Kirpan V.V., Sitnikov A.V.
- 3PO-I1-2
EFFECT OF MAGNETIC-FIELD-INDUCED TUNING OF DISORDER AND BAND STRUCTURE ON THE MAGNETORESISTANCE OF PARAMAGNETIC DILUTE MAGNETIC SEMICONDUCTORS
Baranovskii S.D.
- 3PO-I1-3
OUTPUT CHARACTERISTICS OF THE NETWORK OF SPIN-TORQUE OSCILLATORS
Safin A.R., Udalov N.N., Bichurin M.I., Petrov R.V., Tatarenko A.S.
- 3PO-I1-4
HIGH FIELD MAGNETORESISTANCE OF NANOCOMPOSITES $(\text{Co}_{84}\text{Nb}_{14}\text{Ta}_2)_x(\text{Al}_2\text{O}_3)_{100-x}$ NEAR THE PERCOLATION THRESHOLD
Blinov M.I., Zakharchuk I.A., Lähderanta E., Sitnikov A.V., Prudnikova M.V., Prudnikov V.N., Rylkov V.V., Granovsky A.B.
- 3PO-I1-5
MAGNETIC PROPERTIES OF THE NATURAL AND ISOTOPE-MODIFIED DIAMOND AND SILICON CARBIDE
Taldenkov A.N., Inyushkin A.V., Chistotina E.A., Ralchenko V.G., Bolshakov A.P., Mokhov E.N.

- 3PO-I1-6 **GIANT MAGNETORESISTANCE OF CoFe/Cu MULTILAYERS WITH THE (Ni₈₀Fe₂₀)₆₀Cr₄₀ BUFFER LAYER**
Bannikova N.S., Milyaev M.A., Naumova L.I., Krinitsina T.P., Chernyshova T.A., Proglyado V.V., Ustinov V.V.

- 3PO-I1-7 **MAGNETORESISTANCE IN InSb:Mn-InSb p-n JUNCTION AT ROOM TEMPERATURE**
Mikhalevsky V.A., Novodvorsky O.A., Parshina L.S., Khramova O.D., Lotin A.A., Cherebylo E.A., Marenkin S.F., Aronov A.N., Kochura A.V., Aronzon B.A., Panchenko V.Ya.

- 3PO-I1-8 **INVESTIGATION OF InSb:Mn THIN FILMS MAGNETORESISTANCE BY I-V CHARACTERISTICS METHOD**
Novodvorsky O.A., Mikhalevsky V.A., Parshina L.S., Khramova O.D., Lotin A.A., Cherebylo E.A., Marenkin S.F., Aronov A.N., Kochura A.V., Panchenko V.Ya.

- 3PO-I1-9 **A STUDY OF THE STRUCTURE AND ENERGY OF THE 90° NEEL DOMAIN WALL BY THE NUMERICAL METHOD**
Semenov V.S.

- 3PO-I1-10 **SPIN POLARIZATION AND MAGNETIC ORDERING OF MAGNETICALLY DOPED TOPOLOGICAL INSULATORS AND MATERIALS WITH GIANT SO INTERACTION**
Skirdkov P.N., Zvezdin K.A., Zvezdin A.K., Shikin A.M., Rybkina A.A., Klimovskikh I.I.

- 3PO-I1-11 **INTRINSIC SPIN HALL CONDUCTIVITY IN THREE-DIMENSIONAL TOPOLOGICAL INSULATOR/NORMAL INSULATOR HETEROSTRUCTURES**
Men'shov V.N., Shvets I.A., Tugushev V.V., Chulkov E.V.

12:00-14:00

Poster Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Victor STEPANOV

- 3PO-J-1 **HEXAFERRITE NANOPARTICLES**
Eliseev Ar.A., Trusov L.A., Eliseev An.A., Chumakov A.P., Anokhin E.O., Sleptsova A.E., Kazin P.E.

- 3PO-J-2 **SOME CONTRIBUTIONS TO THE STUDY OF METALLIC NANOPARTICLES FOR APPLICATIONS IN LIFE SCIENCES**
Creanga D.-E., Andries M., Puscasu E., Popescu L., Oprica L., Sacarescu L., Grigoras M., Lupu N., Balasoiu M.

- 3PO-J-3 **COMPLEX REFRACTIVE INDEX OF CONCENTRATED MAGNETIC FLUIDS**
Yerin C.V., Lykhmanova V.I., Yerina M.V.

- 3PO-J-4 **ON THE TEMPERATURE DEPENDENCE OF FERROFLUID SUSCEPTIBILITY**
Dikansky Yu.I., Ispiryanyan A.G., Kunikin S.A.
- 3PO-J-5 **THE INFLUENCE OF THE INTERNAL STRUCTURE OF MAGNETIC ELASTOMERS ON THEIR FORC DIAGRAMS**
Dobroserdova A.B., Sanchez P.A., Kantorovich S.S.
- 3PO-J-6 **THE DYNAMIC MAGNETIC RESPONSE OF INTERACTING FERROPARTICLES IN MAGNETIC FLUIDS**
Batrudinov T.M., Zverev V.S., Elfimova E.A., Ivanov A.O., Camp P.J.
- 3PO-J-7 **DYNAMIC HYSTERESIS OF INTERACTING FERROPARTICLES IN MAGNETIC FLUIDS UNDER STRONG FIELD**
Bushuev A.N., Zverev V.S., Elfimova E.A.
- 3PO-J-8 **CHARACTERIZATION OF MAGNETO-ELASTOMERIC MEMBRANES WITH COBALT FERRITE NANOPARTICLES BY MEANS OF STRUCTURAL METHODS**
Balasoiiu M., Bunoiu M., Iacobescu G., Turchenko V., Soloviov D., Bica I.
- 3PO-J-9 **COMPUTER MODELING OF HYBRID MAGNETIC ELASTOMERS**
Sánchez P.A., Stolbov O.V., Raikher Yu.L., Kantorovich S.S.
- 3PO-J-10 **INTERACTION PARAMETERS COMPUTATION FOR A SYSTEM OF PERMANENT MAGNETS AND MAGNETOACTIVE ELASTOMER SAMPLE**
Nadzharyan T.A., Alekhina Yu.A., Makarova L.A., Stepanov G.V., Perov N.S., Kramarenko E.Yu.
- 3PO-J-11 **SILICA COATED STRONTIUM HEXAFERRITE HARD-MAGNETIC COLLOIDAL NANOPARTICLES**
Anokhin E.O., Trusov L.A., Sleptsova A.E., Uvarov O.V., Eliseev A.A., Kazin P.E.
- 3PO-J-12 **DIELECTRIC PROPERTIES INVESTIGATION OF HYBRID MAGNETORHEOLOGICAL ELASTOMERS UNDER A MEDIUM FREQUENCY ELECTROMAGNETIC FIELD**
Balasoiiu M., Bica I.
- 3PO-J-13 **THE RESEARCH OF THE DEFORMATION OF THE THIN BODY WITH A MAGNETIZABLE ELASTOMER IN MAGNETIC FIELDS**
Merkulov D.I.
- 3PO-J-14 **COARSENING DYNAMICS OF FERROMAGNETIC NETWORKS: EXPERIMENTAL RESULTS AND SIMULATIONS**
Pyanzina E., Kögel A., Maretzki R., Sanchez P., Kantorovich S., Richter R.
- 3PO-J-15 **SELF-ASSEMBLY AND EQUILIBRIUM PROPERTIES OF MAGNETIC FILAMENT SOLUTIONS**
Novak E., Pyanzina E., Rozhkov D., Gudkova A., Sanchez P., Kantorovich S.

- 3PO-J-16 **MICROSTRUCTURE FORMATION AND MACROSCOPIC DYNAMICS
OF FERROFLUID EMULSION IN ROTATING MAGNETIC FIELD**
Kolesnikova A.A., Zakinyan A.R., Dikansky Yu.I.
- 3PO-J-17 **ULTRASOUND VELOCITY ANISOTROPY IN MAGNETIC AND
MAGNETOREOLOGICAL FLUIDS**
Sokolov V.V., Osipov M.I.
- 3PO-J-18 **ON THE STRUCTURE OF WATER BASED FERROFLUIDS WITH
COBALT FERRITE PARTICLES**
*Balasoiiu M., Balasoiiu-Gaina A.M., Ivankov O., Soloviov D., Stan C., Lysenko S.,
Lupu N., Creanga D.*
- 3PO-J-19 **MAGNETOSTATIC PROPERTIES OF POLYDISPERSE FERROFLUIDS:
THEORY AND SIMULATION**
Solovyova A.Yu., Elfimova E.A., Ivanov A.O., Camp P.J.
- 3PO-J-20 **LEVITATION AND MOTION OF A MAGNET PARTIALLY IMMERSED TO
A MAGNETIC FLUID**
Pelevina D.A., Naletova V.A., Turkov V.A., Kobzev M.M.
- 3PO-J-21 **EFFECTS OF MAGNETIC FIELDS ON CAPILLARY-GRAVITY WAVES
IN THE PRESENCE OF MAGNETIC SURFACTANTS**
Zhukov A.V.
- 3PO-J-22 **ON THE STUDY OF MAGNETIC FLUID HYPERTHERMIA IN TUMOR
TISSUE: EFFECT OF HEAT EXCHANGE WITH THE SURROUNDING
BIOLOGICAL TISSUE**
Abu-Bakr A.F., Iskakova L., Zubarev A.Yu.
- 3PO-J-23 **THE DYNAMIC MAGNETIC RESPONSE OF FERROFLUID TO
SUPERIMPOSED AC AND DC CROSSED MAGNETIC FIELDS**
Nekhoroshkova Yu.E., Paramonov E.I., Zverev V.S., Elfimova E.A.
- 3PO-J-24 **DEFORMATION OF A MAGNETIC LIQUID DROP IN AN APPLIED
NON-STATIONARY UNIFORM MAGNETIC FIELD**
Tyatyushkin A.N.
- 3PO-J-25 **THE EFFECT OF MAGNETIC NANOPARTICLE CONCENTRATION
ON THE STRUCTURE ORGANIZATION OF A MICROFERROGEL**
Ryzhkov A.V., Raikher Yu.L.

12:00-14:00

Poster Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Victor STEPANOV

- 3PO-I3-1 **DYNAMIC RESPONSE OF A SENSOR ELEMENT MADE OF
MAGNETIC HYBRID ELASTOMER WITH CONTROLLABLE
PROPERTIES**
Becker T.I., Zimmermann K., Borin D.Yu., Stepanov G.V., Storozhenko P.A.

- 3PO-I3-2 **MATHEMATICAL MODELING OF AN INVERSE FERROFLUID EMULSION: INFLUENCE OF DROPLET POLYDISPERSITY**
Subbotin I.M.
- 3PO-I3-3 **TO THE THEORY OF ELASTIC MODULUS OF MAGNETIC SOFT MATERIALS**
Zubarev A.Yu., Chirikov D.N., Dobroserdova A.B.
- 3PO-I3-4 **MODELLING OF AN ELEMENTARY OF A MAGNETIC COLLOID WITH ACCOUNT FOR HYDRODYNAMIC INTERACTIONS**
Melenev P.V., Raikher Yu.L., Rusakov V.V.
- 3PO-I3-5 **MAGNETIC AND ACOUSTIC DISTURBANCE OF THE MAGNETIC FLUID COLUMN WITH AIR CAVITY**
Polunin V.M., Ryapolov P.A., Ryabtsev K.S.

12:00-14:00

Poster Session

Magnetism in Biology and Medicine

Chairperson: Petr NIKITIN

- 3PO-K-1 **POSSIBILITIES OF USING COMBINED MAGNETIC FIELD SENSORS IN MAGNETOCARDIOGRAPHY**
Ichkitidze L.P., Telyshev D.V., Selishchev S.V.
- 3PO-K-2 **SELF-ASSEMBLY IN THE SYSTEMS OF MAGNETIC ANISOTROPIC NANOPARTICLES**
Gudkova A., Pyanzina E.
- 3PO-K-3 **STRUCTURE AND MAGNETIC PROPERTIES OF MAGNETITE-GOLD NANODUMB BELLS FOR MAGNETIC RESONANCE IMAGING**
Nalench Y.A., Efremova M.V., Shchetinin I.V., Abakumov M.A., Savchenko A.G., Majouga A.G.
- 3PO-K-4 **SIZE EFFECTS IN FeGa_2O_4 – FeGaO_3 NANOCOMPOSITES OBSERVED BY MOSSBAUER, RAMAN AND MAGNETIC DATA**
Gervits N.E., Lyubutin I.S., Starchikov S.S., Lin C.-R., Tseng Y.-T.
- 3PO-K-5 **STRUCTURAL AND MAGNETIC PROPERTIES OF COPPER SUBSTITUTED Mg-FERRITES FOR MEDIATED HYPERTHERMIA**
Kiseleva T.Yu., Kabanov V.M., Ilyushin A.S., Markov G.P., Sangaa D., Hirazawa H.
- 3PO-K-6 **MAGNETIC SEDIMENTATION OF HETEROGENEOUS WATER SUSPENSIONS OF TiO_2 AND $\text{Fe}_3\text{O}_4@ \text{SiO}_2$ NANOPARTICLES**
Filinkova M., Bakhteeva Yu., Byzov I., Medvedeva I.
- 3PO-K-7 **MAGNETIC NANOPARTICLE BASED STUDY AND TREATMENT OF GLIAL MALIGNANT TUMORS IN RATS**
Brusentsov N.A., Polyanskiy V.A., Pirogov Yu.A., Anisimov N.V., Gulyaev M.V., Nikitin M.P., Ksevevich T.I., Nikitin P.I., Bocharova O.A.

- 3PO-K-8 **RECONFIGURABLE SETUP FOR MAGNETOTHERMAL PROPERTIES MEASUREMENTS OF MAGNETIC FLUIDS AND IMPLANTS**
Salakhova R.T., Vylegzhanin A.G., Kritskaya E.A., Pyatakov A.P., Markov V.K., Malyshev A.Yu., Kamilov K.I., Tishin A.M.
- 3PO-K-9 **NOVEL HIGH SENSITIVE METHOD FOR DETECTION OF MAGNETIC NANOPARTICLES IN LIVING CELL AND BIOLOGICAL MEDIA BY NMR RELAXOMETRY**
Byzov I.V., Minin A.S., Uimin M.A., Yermakov A.E., Mysik A.A., Zhakov S.V., Ulitko M.V.
- 3PO-K-10 **EFFECT OF SYNTHESIS TECHNIQUE ON THE MAGNETIC PROPERTIES OF $\text{Fe}_m\text{O}_n\text{-SiO}_2$ COLLOIDAL PARTICLES**
Gareev K.G., Kharitonskii P.V., Korolev D.V., Panov M.F., Pugach V.S., Sergienko E.S.
- 3PO-K-11 **FEM-MODELLING OF THIN FILM MAGNETOIMPEDANCE SENSITIVE ELEMENT DESIGNED FOR BIODETECTION**
Volchkov S.O., Chlenova A.A., Lepalovskij V.N.
- 3PO-K-12 **BIO-MEDICAL APPLICATIONS OF MAGNETIC DIAMOND NANOPARTICLES**
Karmenyan A., Perevedentseva E., Lin Y.-C., Song C.-Y., Lin Z.-R., Liu L.-C., Chang C.-C., Norina S., Bessalova V., Perov N., Cheng C.-L.
- 3PO-K-13 **MAGNETOIMPEDANCE EFFECT IN CoFeMoSiB AS-QUENCHED AND SURFACE MODIFIED AMORPHOUS RIBBONS COVERED BY WATER BASED FERROFLUID**
Lotfollahi Z., Amirabadizadeh A., Safronov A.P., Kurlyandskaya G.V.
- 3PO-K-14 **CHARACTERIZATION OF MAGNETITE-BASED NANOCOMPOSITE BY NONLINEAR MAGNETIC RESPONSE**
Ryzhov V.A., Marchenko Ya.Yu., Kiselev I.A., Bogachev Yu.V., Nicolaev B.P., Deriglazov V.V.
- 3PO-K-15 **CONDENSATION OF CARBON IN AROMATIC SOLVENTS AS A FACTOR OF INFLUENCE ON THE MAGNETIC PROPERTIES OF Co -BASED RIBBONS**
Golubeva E.V., Chlenova A.A., Stepanova E.A., Volchkov S.O.
- 3PO-K-16 **METHODOLOGICAL ASPECTS OF SMALL IRON CONCENTRATIONS DETERMINATION IN BLACK YEASTS GROWN IN THE PRESENCE OF IRON OXIDE NANOPARTICLES**
Melnikov G.Yu., Denisova T.P., Safronov A.P., Samatov O.M., Khandukhanov R.T., Kulesh N.A., Andrade R., Kurlyandskaya G.V.
- 3PO-K-17 **SELECTED FEATURES OF MORPHO-FUNCTIONAL REACTIONS OF EUKARYOTIC MICROORGANISMS GROWN IN THE PRESENCE OF MAGNETITE IRON OXIDE NANOPARTICLES OBTAINED BY LASER TARGET EVAPORATION**
Simonova E.V., Denisova T.P., Khandukhanov R.T., Melnikov G.Yu., Medvedev A.I., Beketov I.V., Andrade R.

- 3PO-K-18 **HETEROGENEITY OF POPULATION OF MICROORGANISMS GROWN
IN PRESENCE OF IRON OXIDE MAGHEMITE NANOPARTICLES**
*Denisova T.P., Simonova E.V., Kokorina L.A., Maximova E.N., Samatov O.M.,
Safronov A.P., Kurlyandskaya G.V.*
- 3PO-K-19 **SYNTHESIS AND PHYSICAL INVESTIGATION OF MAGNETITE-GOLD
HYBRID NANOPARTICLES FOR THERANOSTIC PURPOSES**
*Efremova M.V., Nalench Yu.A., Blokhina A.D., Garanina A.S., Abakumov M.A.,
Wiedwald U., Spasova M., Farle M., Savchenko A.G., Klyachko N.L.,
Majouga A.G.*
- 3PO-K-20 **SOIL MAGNETIC PROPERTIES IN THE IMPACT ZONE OF
“SEVERONIKEL” ENTERPRISES**
Danilov G., Koptsik S., Perov N.
- 3PO-K-21 **MAGNETIC AND FLUORESCENT NANOPARTICLES BASED ON IRON-
CARBON NANOCOMPOSITES AND CARBON QUANTUM DOTS**
*Minin A.S., Uimin M.A., Yermakov A.E., Byzov I.V., Zubarev I.V., Ulitko M.V.,
Smoluk L.T., Belousova A.V., Abakumov M.A., Chekhonin V.P.*
- 3PO-K-22 **COMPLEX STUDY OF MULTIFUNCTIONAL MAGNETIC
NANOSTRUCTURES FOR THE DEVELOPMENT OF EFFECTIVE
THERANOSTIC NANOAGENTS**
Shipunova V.O., Deyev S.M.
- 3PO-K-23 **POSSIBILITY OF SUPERRADIANT ENHANCEMENT FROM NON-
DICKE STATES**
Nefedkin N.E., Andrianov E.S., Pukhov A.A., Vinogradov A.P.
- 3PO-K-24 **APTAMER-FUNCTIONALIZED MAGNETIC NANODEVICES FOR
TUMOR CELL MICROSURGERY**
*Sokolov A., Lukyanenko A., Ivanova O., Zablude V., Kuzmichenko N., Zamay S.,
Zamay T., Kolovskaya O., Zamay G., Svetlichny V.*
- 3PO-K-25 **DETECTION OF CARDIAC BIOMARKERS MYOGLOBIN AND C-
REACTIVE PROTEIN BY A GIANT MAGNETOIMPEDANCE-BASED
BIOSENSING SYSTEM**
Yang Z., Wang H., Luo Y.-S.

12:00-14:00

Poster Session

Magnetism and Superconductivity

Chairperson: Yurii PROSHIN

- 3PO-I-1 **BROKEN SYMMETRY, QUANTUM PROTECTORATE AND EMERGENT
BEHAVIOR IN MAGNETIC AND SUPERCONDUCTING SYSTEMS**
Kuzemsky A.L.
- 3PO-I-2 **PROXIMITY EFFECT IN SUPERCONDUCTOR/FERROMAGNET
HETEROSTRUCTURES WITH PLANAR DOMAIN STRUCTURE**
Tumanov V.A., Proshin Yu.N.

- 3PO-I-3 **OSCILLATION ELECTRON MODEL OF SYSTEM FeSe—SrTiO₃**
Netesova N.P.
- 3PO-I-4 **LOW-TEMPERATURE SPECIFIC HEAT OF HTSC YBa₂Cu₃O_y IN
 MAGNETIC FIELD: THE NATURE OF THE SCHOTTKY ANOMALY**
*Mamsurova L.G., Trusevich N.G., Vishnev A.A., Gavrilkin S.Yu., Mamsurov I.V.,
 Trakhtenberg L.I.*
- 3PO-I-5 **UNCONVENTIONAL PHASE TRANSITIONS IN STRONGLY
 ANISOTROPIC 2D S=1 (PSEUDO)SPIN SYSTEMS**
Konev V.V., Vasinovich V.V., Ulitko V.A., Panov Yu.D., Moskvina A.S.
- 3PO-I-6 **EFFECT OF EXTERNAL MAGNETIC FIELD ON THE JOSEPHSON
 TRANSPORT IN FERROMAGNETIC NANOWIRE**
Avdeev M.V., Proshin Yu.N.
- 3PO-I-7 **ELECTRICAL ANISOTROPY OF GRANULAR HIGH-TC
 SUPERCONDUCTORS IN APPLIED MAGNETIC FIELD: ESSENTIAL
 ROLE OF FLUX COMPRESSING IN THE INTERGRAIN MEDIA**
Balaev D.A., Pochekutov M.A., Semenov S.V., Velikanov D.A.
- 3PO-I-8 **TRANSPORT PROPERTIES OF MAGNESIUM DIBORIDE –
 MANGANITE NANOCOMPOSITE**
Kononenko V.V., Varyukhin V.N.
- 3PO-I-9 **ISOLATION OF PROXIMITY-INDUCED TRIPLET PAIRING CHANNEL IN
 A SUPERCONDUCTOR/FERROMAGNET SPIN VALVE**
*Kamashev A.A., Validov A.A., Garifyanov N.N., Garifullin I.A., Fominov Ya.V.,
 Leksin P.V., Shumann J., Thomas J., Kataev V., Büchner B.*
- 3PO-I-10 **FEATURES OF MICROSTRUCTURE AND MAGNETIC FLUX
 DYNAMICS IN SUPERCONDUCTING Nb-Ti TAPES WITH STRONG
 ANISOTROPIC PINNING**
*Shavkin S.V., Guryev V.V., Kruglov V.S., Ovcharov A.V., Likhachev I.A.,
 Vasiliev A.L., Veligzhanin A.A., Zubavichus Y.V.*
- 3PO-I-11 **TWO MAGNETIC PHASE TRANSITIONS IN FRANCISITE-TYPE
 Cu₃Yb(SeO₃)₂O₂Cl**
Zakharov K.V., Markina M.M., Kuznetsova E.S., Berdonosov P.S., Vasiliev A.N.
- 3PO-I-12 **CALCULATION OF ELECTRONS TRAPS INFLUENCE ON A COLD
 ELECTRONS BOLOMETER**
Balahontsev A.B., Yagovtsev V.O., Levshunov V.V., Pugach N.G.
- 3PO-I-13 **DISTRIBUTION OF PAIRING FUNCTIONS IN SUPERCONDUCTING
 SPIN-VALVES**
Gaifullin R.R., Deminov R.G., Tagirov L.R., Kupriyanov M.Yu., Golubov A.A.
- 3PO-I-14 **SUPERCONDUCTIVITY AND FERROMAGNETISM
 IN THE HUBBARD MODEL**
Zaitsev R.O.

- 3PO-I-15 **SYNTHESIS AND CHARACTERISATION OF SUPERCONDUCTING HETEROSTRUCTURES WITH Sr_2IrO_4 INTERLAYER**
Petrzhik A.M., Cristiani G., Shadrin A.V., Logvenov G., Ovsyannikov G.A.
- 3PO-I-16 **IRREVERSIBILITY FIELD OF SUPERCONDUCTING Nb-Ti TAPES**
Guryev V.V., Shavkin S.V., Kruglov V.S.
- 3PO-I-17 **THE NON-LINEAR RESPONSE OF A SUPERCONDUCTOR OF THE Bi-Sr-Ca-Cu-O SYSTEM TO AN ALTERNATING MAGNETIC FIELD**
Gvozdevskaya V.A., Sergeev A.V., Golev I.M.
- 3PO-I-18 **PECULIAR INTERACTION OF VORTICES WITH MAGNETIC RARE-EARTH IONS IN HTSC $\text{TmBa}_2\text{Cu}_3\text{O}_y$ SINGLE CRYSTAL**
Pigalskiy K.
- 3PO-I-19 **TUNING THE PEAK EFFECT BY IN $\text{Y}_{1-x}\text{Nd}_x\text{Ba}_2\text{Cu}_3\text{O}_7$ COMPOUND BY Nd DOPING**
Semenov S.V., Gokhfeld D.M., Balaev D.A., Yakimov I.S., Petrov M.I.
- 3PO-I-20 **SUPERCONDUCTING-MAGNETIC LAYERED METAMATERIAL**
Holder J.S., Pugach N.G., Bakurskiy S.V., Kupriyanov M.Yu., Belzig W.
- 3PO-I-21 **INFLUENCE OF CANTED ANTIFERROMAGNETIC ORDER ON THE ELECTRONIC SPECTRAL FUNCTION IN 2D STRONGLY CORRELATED ELECTRONIC SYSTEMS**
Kuz'min V.I., Nikolaev S.V., Ovchinnikov S.G.
- 3PO-I-22 **THEORETICAL AND EXPERIMENTAL STUDY OF A RhGe HIGH-PRESSURE PHASE WITH ACENTRIC B20 STRUCTURE**
Magnitskaya M.V., Chtchelkatchev N.M., Lepeshkin S.V., Tsvyashchenko A.V., Fomicheva L.N., Salamatina D.A., Velichkov A.I., Salamatina A.V., Nikolaev A.V., Budzynski M.
- 3PO-I-23 **THE BEHAVIOUR OF THE SECOND HARMONIC OF THE RESPONSE SIGNAL OF BISMUTH HIGH-TEMPERATURE SUPERCONDUCTOR ON APPLIED ALTERNATIVE MAGNETIC FIELD**
Barkalova A.S., Sergeev A.V., Golev I.M.
- 3PO-I-24 **NMR STUDIES OF SKUTTERUDITE-RELATED $\text{R}_3\text{Co}_4\text{Sn}_{13}$ (R = La, Ce, Pr, Yb)**
Lue Ch. Sh., Liu H.F., Kuo Ch.-N., Kuo Y.K.
- 3PO-I-25 **PHYSICAL PROPERTIES OF THE TERNARY STANNIDE $\text{Sm}_3\text{Co}_4\text{Sn}_{13}$**
Kuo Ch.-N., Wang Ch.-M., Tseng Ch.-W., Lue Ch. Sh.

12:00-14:00

Poster Session

Magnetophotonics and Ultrafast Magnetism

Chairperson: Tatiana SHAPAEVA

3PO-I2-1 **APPLICATION OF TOPOLOGICAL METHODS TO THE STUDY OF
MAGNETO-OPTICAL IMAGES OF INHOMOGENEOUS MAGNETIC
FIELDS**

Ivanov V.E., Knyazeva E.A.

3PO- I2-2 **MODULATION OF LIGHT VIA MAGNETOELECTRIC EFFECT ON
MAGNETIC DOMAIN WALLS**

*Khokhlov N.E., Khramova A.E., Nikolaeva E.P., Kosykh T.B., Nikolaev A.V.,
Zvezdin A.K., Pyatakov A.P., Belotelov V.I.*

3PO- I2-3 **EXCITONIC ENHANCEMENT OF TMOKE IN THE DILUTED MAGNETIC
SEMICONDUCTOR NANOSTRUCTURES**

*Borovkova O., Spitzer F., Akimov I., Belotelov V., Wiater M., Wojtowicz T.,
Karczewski G., Yakovlev D., Bayer M.*

3PO- I2-4 **OPTICAL TM-SURFACE POLARITONS AT THE NONLINEAR
SEMICONDUCTOR – LAYERED METAMATERIAL INTERFACE:
THE CASE OF A DISSIPATION**

Panyaev I.S., Sannikov D.G.

3PO- I2-5 **MAGNETIC CIRCULAR DICHROISM SPECTRA
AND ELECTRON STRUCTURE OF $\text{ErAl}_3(\text{BO}_3)_4$ SINGLE CRYSTAL**

Sokolov V.V., Malakhovskii A.V., Gudim I.A.

3PO- I2-6 **FEATURES OF THE MAGNETOREFRACTIVE EFFECT IN METALLIC
NANOSTRUCTURES CoFe/Cu**

Yurasov A.N., Telegin A.V., Bannikova N.S., Milyaev M.A., Sukhorukov Yu.P.

3PO- I2-7 **THE INDUCED BY LASERS OF PUMPING THE ELECTRON-NUCLEAR
PARAMAGNETISM IN THE EXCITED ELECTRONIC STATES IN THE
SERIES N-,O-,S-HYDROCARBON OF COMPOUNDS, RADICALS,
PARAMAGNETIC IONS OF FUELS, AND LUBRICANTS IN
CEMMOTOLOGY**

Obukhov A.E.

3PO- I2-8 **LANDAU LEVELS IN MAGNETO-TRANSMISSION SPECTRA OF
 CuInSe_2 THIN FILMS**

*Yakushev M.V., Rodina A.V., Vaganov S.A., Kitaev Yu.E., Seisyan R.P.,
Abdullaev M.A., Kuznetsova T.V., Mudryi A.V., Faugeras C., Martin R.W.*

14:30-17:00

Oral Session

Spintronics and Magnetotransport

Chairperson: Andrey STASHKEVICH

3TL-A-4
14:30

**MOLECULAR SPIN CROSSOVER PHENOMENON AT THE
NANOSCALE MOTION AND SPINTRONIC PROPERTIES**

Bousseksou A., Molnar G., Salmon L., Nicolazzi W.

- 3TL-A-5
15:00
FLEXIBLE MAGNETIC TUNNEL JUNCTIONS AND SPIN-ORBIT TORQUE DEVICES
Yang H.
- 3RP-A-6
15:30
LARGE SPIN-ORBIT TORQUE EFFICIENCY AT HEAVY METAL/MAGNETIC INSULATOR INTERFACES
Kalitsov A., Mryasov O.
- 3RP-A-7
15:45
SPIN INJECTION IN ANTIFERROMAGNETS
Frangou L., Forestier G., Gladii O., Auffret S., Gambarelli S., Baltz V.
- 3TL-A-8
16:00
ANOMALOUS HALL EFFECT AND QUANTUM CRITICALITY IN $\text{Mn}_{1-x}\text{Fe}_x\text{Si}$ SOLID SOLUTIONS
Demishev S.V., Lobanova I.I., Glushkov V.V.
- 3RP-A-9
16:30
MULTIPHYSICS AND MULTISCALE MODELING OF MRAM DEVICES USING TEM-MAG CODE
Knizhnik A.A.
- 3RP-A-10
16:45
THE COMPETITION OF ANISOTROPY, EXCHANGE COUPLING, AND ZEEMAN ENERGIES IN PtCo/Ir/PtCo BILAYERS
Lyova G.L., Talantsev A.D., Hamadeh A., Morgunov R.B., Dmitreev O.G., Mangin S.

14:30-17:30

Oral Session

Soft and Hard Magnetic Materials

Chairperson: Yury PASTUSHENKOV

- 3TL-B-6
14:30
ALLOYING AND PRESSURE EFFECTS ON ITINERANT-ELECTRON METAMAGNETISM OF THE UCoAl -BASED COMPOUNDS
Mushnikov N.V., Andreev A.V., Arnold Z., Shirasaki K., Yamamura T.
- 3OR-B-7
15:00
STRUCTURAL AND MAGNETIC PROPERTIES OF EXCHANGE-COUPLED MnBi/MnB NANOCOMPOSITE MAGNETS
Simsek T., Ozcan S.
- 3OR-B-8
15:15
TUNING THE MAGNETIC AND STRUCTURAL PROPERTIES OF $\text{Fe}_{60}\text{Al}_{40}$ THIN FILMS BY ION IRRADIATION
Ehrler J., Bali R., Böttger R., Semisalova A., Zhou S., Grenzer J., Potzger K.
- 3TL-B-9
15:30
THICKNESS DEPENDENCE OF MAGNETIC PROPERTIES OF THIN AMORPHOUS FERRIMAGNETIC RARE EARTH-TRANSITION METAL MULTILAYERS
Svalov A.V., Adanakova O.A., Vas'kovskiy V.O., Balymov K.G., Kurlyandskaya G.V.
- 3RP-B-10
16:00
THE ROLE OF MAGNETISM IN THE FORMATION OF THE ATOMIC STRUCTURE OF SOFT MAGNETIC IRON-BASED ALLOYS
Ershov N.V., Chernenkov Yu.P., Lukshina V.A., Gornostyrev Yu.N., Gorbatov O.I.

3OR-B-11 **119Sn MÖSSBAUER SPECTROSCOPY OF 3d-, 4f-, AND U-BASED
INTERMETALLIC COMPOUNDS**

16:15

Krylov V.I.

3OR-B-12 **CARBONYL IRON PARTICLES IN A SiO₂ SHELL: SYNTHESIS,
PROPERTIES, MICROWAVE PERMEABILITY AND PERMITTIVITY
MEASUREMENTS**

16:30

*Maklakov S.S., Maklakov S.A., Petrov D.A., Rozanov K.N.,
Adamovich Yu.A., Polozov V.I., Talalaev K.A., Amelichev V.A., Bessalova V.V.,
Pokholok K.V., Filimonov D.S., Ryzhikov I.A., Lagarkov A.N.*

3OR-B-13 **ENGINEERING OF MAGNETIC PROPERTIES, MAGNETIC
ANISOTROPY AND GMI EFFECT OF Co- AND Fe- RICH
MICROWIRES BY ANNEALING**

16:45

Zhukov A., Ipatov M., Blanco J. M., Churyukanova M., Zhukova V.

3RP-B-14 **MAGNETIC PROPERTIES OF NANOLAMINATED MAGNETIC MAX
PHASES**

17:00

Novoselova Iu., Salikhov R., Wiedwald U., Spasova M., Rosen J., Farle M.

3RP-B-15 **STRUCTURAL PROPERTIES INFLUENCE ON MAGNETIC
CHARACTERISTICS OF GLASS-COATED MICROWIRES**

17:15

*Rodionova V., Baraban I., Chichay K., Shevyrtalov S., Litvinova A.,
Gorshenkov M., Perov N.*

14:30-17:00**Oral Session****Magnetic Nanostructures and Low Dimensional Magnetism****Chairperson: Yurii USPENSKII**

3OR-C-5 **ELECTRONIC STRUCTURE AND MAGNETIC PROPERTIES OF
LOW-DIMENSIONAL NONSTOICHIOMETRIC RUTILE**

14:30

Korotin M.A.¹, Skorikov N.A.¹, Anokhin A.O.

3OR-C-6 **ε-Fe₂O₃ NANOPARTICLES IN SILICA MATRIX. SYSTEM WITH UNIQUE
MAGNETIC PROPERTIES FOR CATALYSIS**

14:45

*Yakushkin S.S., Balaev D.A., Shaikhutdinov K.A., Dubrovskiy A.A.,
Bukhtiyarova G.A., Martyanov O.N.*

3RP-C-7 **DZYALOSHINSKII-MORIYA INTERACTION DRIVEN BY MODULATED
INTERFACES IN 3d-5d(4d) THIN FILMS WITH STRUCTURAL
INVERSION ASYMMETRY**

15:00

*Samardak A.S., Pal B., Samardak A.Yu., Davydenko A.V., Ognev A.V.,
Chebotkevich L.A., Sadovnikov A.V., Nikitov S.A., Cha I.H., Kim Y.K.*

3RP-C-8 **EFFECT OF Cu, Cu/Ru, OR Ru/Cu SEED-LAYER ON
PERPENDICULAR MAGNETIC ANISOTROPY OF Co₈₀Pt₂₀ FILMS**

15:15

Chen S.C., Jen S.U., Lu C.F., Chen R.Z., Wang C.M., Kuo P.C.

3RP-C-9 **CYANOMETALLATE BASED LOW-DIMENSIONAL HETEROMETALLIC
ASSEMBLIES DISPLAYING SLOW MAGNETIC DYNAMICS**
Vostrikova K.E.

3OR-C-10 **DOUBLING OF THE FERROMAGNETIC ENERGY PRODUCT IN
NANOWIRES BY TIP-CAPPING WITH AN ANTIFERROMAGNET**
*Wang F.Z., Salikhov R., Spasova M., Liébana Viñas S., Bran C.,
Chen Y.S., Vazquez M., Farle M., Wiedwald U.*

3OR-C-11 **UNUSUAL MAGNETIC PROPERTIES OF CARBON BASED
NANOCOMPOSITES**
*Estipanos M., Sharoyan E., Manukyan A., Gyulasaryan H., Mirzakhanyan A.,
Bernal O., Kocharian A.*

3OR-C-12 **NON-EQUILIBRIUM CRITICAL DYNAMICS OF LOW-DIMENSIONAL
MAGNETICS AND MULTILAYER STRUCTURES**
Prudnikov P.V.

3OR-C-13 **QUANTUM-MECHANICAL AND CONTINUAL MODELS OF MAGNETIC
DYNAMICS FOR ANTIFERROMAGNETIC PARTICLES AND THEIR
APPLICATION TO IDENTIFICATION OF MAGNETIC STRUCTURE OF
FERRIC OXIDE NANOPARTICLES BY MÖSSBAUER SPECTROSCOPY**
Mischenko I.N., Chuev M.A.

3OR-C-14 **NON-MARKOVIAN DYNAMICA IN THE EXTENDED CLUSTER
SPIN-1/2 XX CHAIN**
Mohammad Ali Zadeh T., Mahdavifar S., Mahmoudi M., Soltani M.R.

14:30-17:30

Oral Session

Magnetism and Superconductivity

Chairperson: Edward GOLDOBIN

3RP-D-4 **REVERSING DIRECTION OF SUPERCURRENT CIRCULATION IN SF
SANDWICH WITH ABRIKOSOV VORTEX**
Bakurskiy S.V., Golubov A.A., Kupriyanov M.Yu., Khapaev M.M.

3OR-D-5 **MULTI-VALUED CURRENT PHASE RELATIONS IN JOSEPHSON
JUNCTION WITH COMPLEX -ISF- INTERLAYER**
*Bakurskiy S.V., Filippov V.I., Ruzhickiy V.I., Klenov N.V., Soloviev I.I.,
Kupriyanov M.Yu., Golubov A.A.*

3OR-D-6 **INVERTED ADIABATIC QUANTUM FLUX PARAMETRON SHUNTED
BY MAGNETIC JOSEPHSON JUNCTION**
Schegolev A.E., Soloviev I.I., Klenov N.V., Tereshonok M.V.

3TL-D-7 **RECENT TOPICS SURFACE ANDREEV BOUND STATES**
Tanaka Y., Bo L., Kobayashi D., Yada K., Yamakage A., Sato M.

- 3OR-D-8
15:45
- MAGNETOELECTRIC EFFECTS IN SPIN-ORBIT COUPLED SUPERCONDUCTORS. ANDREEV INTERFEROMETER WITH TRIPLET COOPER CORRELATIONS**
Mal'shukov A.G.

- 3OR-D-9
16:00
- INVESTIGATION OF SUPERCONDUCTING TRIPLET SPIN-VALVE EFFECTS IN SUPERCONDUCTOR-FERROMAGNET HETEROSTRUCTURES OF Nb, Co AND CuNi ALLOY**
Lenk D., Zdravkov V.I., Widmann S., Khaydukov Yu., Morari R., Ullrich A., Obermeier G., Müller C., Sidorenko A.S., Krug von Nidda H.-A., Keimer B., Loidl A., Horn S., Tagirov L.R., Tidecks R.

- 3RP-D-10
16:15
- MAGNETODIPOLE AND SPIN-MOMENTUM TRANSFER EFFECTS IN THE SF HYBRIDS RESPONSE ON THE MAGNETIC AND ELECTRIC FIELDS**
Uspenskaya L.S.

- 3RP-D-11
16:30
- SUPERCONDUCTING SPIN-VALVE EFFECT IN HETEROSTRUCTURE CONTAINING THE HEUSLER ALLOY AS THE FERROMAGNETIC LAYER**
Kamashev A.A., Validov A.A., Garifullin I.A., Fominov Ya.V., Leksin P.V., Shumann J., Kataev V., Büchner B.

- 3OR-D-12
16:45
- THIN FILMS OF Sr_2IrO_4 WITH SPIN-ORBIT INTERACTION**
Kislinkii Yu.V., Petrzhik A.M., Andreev N.V., Cristiani G., Diuzhikov I.N., Logvenov G., Ovsyannikov G.A.

- 3RP-D-13
17:00
- ULTRAFAST DYNAMICS IN Na-DOPED $\text{KxFe}_{2-y}\text{Se}_2$ SUPERCONDUCTORS**
Luo C.W., Cheng P.C., Chu Y.J., Tzeng W.Y., Lin J.-Y., Wu K.H., Juang J.Y., Golovanov A., Chareev D.A., Vasiliev A.

- 3OR-D-14
17:15
- COMPETITION OF D- AND S- WAVE SUPERCONDUCTIVITY INDUCED BY EXCHANGE INTERACTIONS IN THE SPIN-POLARON ENSEMBLE**
Val'kov V.V., Dzebisashvili D.M., Korovushkin M.M., Barabanov A.F.

14:30-16:45

Oral Session

Magnonics

Chairperson: Sergej DEMOKRITOV

- 3TL-E-6
14:30
- EXCITATION AND PROPAGATION OF SPIN WAVES IN GRADED MAGNONIC LANDSCAPES**
Kruglyak V.V., Davies C.S., Au Y., Mushenok F.B., Hrkac G., Whitehead N.J., Horsley S.A.R., Philbin T.J., Poimanov V.D., Dost R., Allwood D.A., Inkson B.J., Kuchko A.N.

- 3TL-E-7
15:00
- SUPERMAGNONICS**
Bunkov Yu.M.

3RP-E-8
15:30 **RE-PROGRAMABLE DYNAMICS OF COUPLED VORTICES**
*Lendinez S., Ding J., Jain S., Jungfleisch M.B., Pearson J., Hoffmann A.,
Novosad V.*

3RP-E-9
15:45 **LOGIC GATES USING FORWARD VOLUME SPIN WAVES BASED ON
YTTRIUM IRON GARNETS**
*Goto T., Sekiguchi K., Ross C.A., Granovsky A.B., Takagi H.,
Nakamura Y., Uchida H., Inoue M.*

3OR-E-13
16:00 **MAGNETOSTATIC SPIN WAVES IN IRREGULAR NARROW
FERROMAGNETIC WAVEGUIDES**
Kalyabin D., Beginin E., Sharaevskii E., Sadovnikov A., Nikitov S.

3OR-E-11
16:15 **GENERAL THEORY OF SPIN WAVE PROPAGATION IN CHAINS OF
DISCRETE MAGNETIC ELEMENTS**
Osokin S.A., Barabanenkov Y.N., Kalyabin D.V., Nikitov S.A.

3OR-E-12
16:30 **EXCITATION OF EXCHANGE MAGNONS IN FERROMAGNETIC FILMS
BY PICOSECOND ACOUSTIC PULSES**
*Alekhin A., Golov A.V., Vlasov V.S., Besse V., Melnikov A., Makarov D.,
Kotov L.N., Temnov V.V.*

14:30-17:00

Oral Session

Multiferroics

Chairperson: Sebastiaan VAN DIJKEN

3TL-F-6
14:30 **MAGNON-PHONON/MAGNON COUPLING IN
MULTIFERROIC (Y,Lu)MnO₃**
Park J.G.

3TL-F-7
15:00 **MAGNETOELECTRICITY AT THE ANTIPEROVSKITE/PEROVSKITE
INTERFACE**
Shao D.-F., Paudel T.R., Tsymbal E.Y.

3TL-F-8
15:30 **STRUCTURE AND MAGNETISM OF THE MULTIFERROIC Co/PZT/LSMO
INTERFACE**
*Meyerheim H.L., Ernst A., Mohseni K., Polyakov A., Quindeau A., Antonov V.,
Vasili H.B., Crozier E.D., Xiao Q.F., Valvidares M., Gargiani P.*

3OR-F-9
16:00 **STRUCTURAL, ELECTRICAL AND MAGNETIC PROPERTIES OF
MODIFIED BiFeO₃**
Nitin K., Shukla A., Choudhary R.N.P.

3OR-F-10
16:15 **NEW PEROVSKITES IN R₂O₃-Mn₂O₃ SYSTEMS (R = RARE-EARTHS)**
Zhang L., Matsushita Y., Katsuya Y., Tanaka M., Yamaura K., Belik A.A.

3OR-F-11
16:30 **PHASE TRANSITIONS AND CRITICAL PHENOMENA IN SUPERLATTICE
MULTIFERROIC NANOFILMS**
Nugumanov A.G., Sharafullin I.F., Diep H.T.

3OR-F-12
16:45

**CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES
OF Ca AND Mn CO-DOPED BIFEO₃**

Karpinsky D.V., Troyanchuk I.O., Silibin M.V., Gavrilov S.A.

14:30-17:00

Oral Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Alexey IVANOV

3OR-G-4
14:30

**THERMOMAGNETIC CONVECTION IN THE CYLINDRICAL
ENCLOSURE. 1 ZERO GRAVITY**

Krakov M.S., Nikiforov I.V.

3OR-G-5
14:45

**LOW-TEMPERATURE STRUCTURAL PROPERTIES OF THE DIPOLAR
HARD SPHERE FLUID**

Ronti M., Rovigatti L., Tavares J.M., Ivanov A.O., Sciortino F., Kantorovich S.S.

3OR-G-6
15:00

**DILUTION DEPENDENT MAGNETORHEOLOGICAL EFFECTS OF
FLAKE-SHAPED PARTICLE SUSPENSIONS**

Siebert E., Laherisheth Z., Upadhyay R.V., Odenbach S.

3OR-G-7
15:15

**ROTATIONAL EFFECT IN SUSPENSIONS OF ANISOTROPIC
PIGMENT PARTICLES AND MAGNETIC NANOPARTICLES**

Storozhenko A.M., Stannarius R., Eremin A., Aref'ev I.M.

3OR-G-8
15:30

**NONLINEAR RESPONSE OF FERROFLUID TO ALTERNATING
MAGNETIC FIELD**

Kuznetsov A.A., Pshenichnikov A.F.

3OR-G-9
15:45

**MECHANICS OF MAGNETIC FLUID ACTIVE ELEMENT IN STRONG
MAGNETIC FIELD**

Polunin V.M., Ryapolov P.A., Sheldeshova E.V.

3OR-G-10
16:00

ROTATING MAGNETIC MICROPARTICLES IN OPTICAL TRAPS

Romodina M.N., Shchelkunov N.N.¹, Lyubin E.V., Fedyanin A.A.

3OR-G-11
16:15

**DYNAMICS OF MAGNETIC NANOPARTICLES UNDER ROTATING
FIELD WITH ALLOWANCE FOR THE NÉEL AND BROWN
RELAXATION MECHANISMS**

Stepanov V.I.

3OR-G-12
16:30

**COLLOIDAL HEMATITE CUBES: MAGNETIC PROPERTIES AND
SELF-ASSEMBLY**

*Rossi L., Donaldson J.G., Meijer J.-M., Irvine W.T.M., Petukhov A.V.,
Kantorovich S.S., Philipse A.P., Sacanna S.*

3OR-G-13
16:45

**MAGNETIC FLUID BRIDGE BETWEEN TWO CONES AND A
CYLINDER IN THE MAGNETIC FIELD OF A CURRENT-CARRYING
WIRE**

Vinogradova A.S., Turkov V.A., Naletova V.A.

14:30-17:00**Oral Session****Study of Magnetism using X-rays and Neutrons****Chairperson: Andreas MICHELS**

- 3TL-H-4
14:30 **VORTEX MATTER BEYOND SANS: FROM SUPERCONDUCTIVITY TO SKYRMIONS**
Muehlbauer S.
- 3TL-H-5
15:00 **CHARACTERIZATION OF MAGNETIC NANOPARTICLES BY SMALL-ANGLE SCATTERING WITHIN THE EUROPEAN FP7 PROJECT**
NanoMag
Bender P.
- 3RP-H-6
15:30 **AGGREGATE STATE OF FERROFLUIDS BY ANYSOTROPY ANALYSIS OF 2D SAXS IN MAGNETIC FIELD**
Avdeev M.V., Veligzhanin A.A., Shulenina A.V., Gruzinov A.Yu., Zubavichus Y.V.
- 3RP-H-7
15:45 **MAGNETIC CORRELATIONS IN ARTIFICIALLY DESIGNED MICRO-DOMAIN PATTERNS INVESTIGATED BY NEUTRON SCATTERING**
Saerbeck T., Steinke N.-J., Huckfeldt H., Koch I., Ehresmann A.
- 3OR-H-8
16:00 **SIZE EVOLUTION OF SPIRAL MAGNETIC STRUCTURE IN CoCr_2O_4 NANOPARTICLES**
Zákutná D., Alemayehu A., Vlček J., Nemkovski K., Nižňanský D., Honecker D., Disch S.
- 3OR-H-9
16:15 **MAGNETIC SMALL-ANGLE NEUTRON SCATTERING ON BULK METALLIC GLASSES**
Mettus D., Honecker D., Birringer R., Leibner A., Deckarm M., Busch R., Stolpe M., Kohlbrecher J., Hautle P., Barquín L.F., Fernández J.R., Michels A.
- 3RP-H-10
16:30 **UNRAVELLING THE COMPLEX MAGNETIC MORPHOLOGY OF MAGNETIC NANOPARTICLES**
Zákutná D., Honecker D., Disch S.
- 3OR-H-11
16:45 **SPIRAL STRUCTURE OF $[\text{}^{57}\text{Fe/CR}]_N$ MULTILAYERS REVEALED BY NUCLEAR RESONANCE REFLECTIVITY**
Andreeva M.A., Baulin R.A., Chumakov A.I., Rüffler R., Smirnov G.V., Babanov Yu.A., Devyaterikov D.I., Milyaev M.A., Ponomarev D.A., Romashev L.N., Ustinov V.V.

14:30-17:15**Oral Session****Magnetism in Biology and Medicine****Chairperson: Alexander SAFRONOV**

- 3TL-O-4
14:30 **INTERFACING MAGNETIC NANOPARTICLES WITH CELLS VIA BIOORTHOGONAL CLICK CHEMISTRY**
Idiogo-López F.J., Navascuez M., Moreno Antolín E., Eceiza M., Aizpurua J.M., Martínez de la Fuente J., Fratila R.M.

- 3TL-O-5
15:00
**QUANTUM EFFECTS AND MAGNETISM
IN THE SPATIALLY DISTRIBUTED DNA MOLECULES**
Irkhin V.Yu., Nikiforov V.N.
- 3TL-O-6
15:30
MAGNETIC PROPERTIES OF “DOPED” DNA
Nikiforov V.N., Koksharov Yu.A., Yevdokimov Yu.M., Irkhin V.Yu.
- 3RP-O-7
16:00
**HEMOPOIETIC STEM CELLS RESPONSE IN VITRO TO NANOSIZED
FERRITES IN A CONSTANT MAGNETIC FIELD**
Khlosov I.A., Slepchenko G.B., Feduschak T.A., Litvinova L.S.
- 3OR-O-8
16:15
**MAGNETIC NANOWIRES FOR MRI CONTRAST AND MAGNETIC
HYPERTHERMIA**
*Shore D., Pailloux S.L., Zhang J., Dragos O., Ghemes A., Gage T.,
Flannigan D.J., Garwood M., Tabakovic I., Pierre V.C., Stadler B.J.H.*
- 3OR-O-9
16:30
**Fe₃O₄/TA₂O₅ NANOPARTICLES-BASED MAGNETICALLY
CONTROLLED CONTRAST MEDIA**
Lukyanenko K., Afremov L., Apanasevich V.
- 3RP-O-10
16:45
**BACTERIAL FERRIHYDRITE NANOPARTICLES: PREPARATION,
MAGNETIC PROPERTIES, AND APPLICATION IN MEDICINE**
*Stolyar S.V., Balaev D.A., Ladygina V.P., Dubrovskiy A.A., Krasikov A.A.,
Popkov S.I., Bayukov O.A., Yaroslavtsev R.N., Volochaev M.N., Iskhakov R.S.,
Dobretsov K.G., Falaleev O.V., Chizhova I.A.*
- 3RP-O-11
17:00
**SPECIFIC ABSORPTION RATE OF MAGNETIC VORTICES IN IRON
AND IRON OXIDE NANOPARTICLES**
Usov N.A., Nesmeyanov M.S., Bautin V.A.

14:30-17:15

Oral Session

Magnetic Shape Memory and Magnetocaloric Effect

Chairperson: Victor KOLEDON

- 3TL-P-8
14:30
**MAGNETIC STATES OF Ni₂MnX AND Ni₂CrZ (Z=Ga, Sn, Sb, Ge, In, Si,
Al, As, P) HEUSLER ALLOYS**
Buchelnikov V.D., Zagrebin M.A., Sokolovskiy V.V.
- 3RP-P-9
15:00
**MAGNETOCALORIC EFFECT IN FERROMAGNET/PARAMAGNET
MULTILAYER STRUCTURES**
*Skorohodov E.V., Vdovichev S.N., Shershevskii I.A., Fraerman A.A.,
Demidov E.S., Chang J.*
- 3OR-P-10
15:15
**VISUALIZATION OF MAGNETOSTRUCTURAL TRANSITION IN
HEUSLER ALLOYS BY MAGNETIC FORCE MICROSCOPY**
Geydt P., Rodionov I.D., Granovsky A.B., Lähderanta E.
- 3OR-P-11
15:30
**INTENSIFICATION OF THERMAL FLUCTUATIONS OWING TO
SPONTANEOUS TRANSITIONS BETWEEN CLOSED ENERGETIC
LEVELS IN HEUSLER ALLOYS**
Metlov L.S., Koledov V.V., Shavrov V.G.

- 3OR-P-12
15:45
IN-SITU RESEARCH OF MARTENSITIC TRANSITION IN POLY- AND SINGLE CRYSTALS HEUSLER ALLOYS UNDER DIFFERENT THERMODYNAMIC CONDITIONS
Dilmieva E.T., Koshkid'ko Yu.S., Koledov V.V., Kamantsev A.P., Shavrov V.G., Khovaylo V.V.
- 3OR-P-13
16:00
APPLICATION OF INFRARED FIBER-OPTICAL TEMPERATURE SENSOR FOR MAGNETOCALORIC MEASUREMENTS IN PULSED MAGNETIC FIELDS
Kamantsev A.P., Koledov V.V., Mashirov A.V., Shavrov V.G., Yen N.H., Thanh P.T., Quang V.M., Dan N.H., Los A.S., Gilewski A., Tereshina I.S., Butvina L.N.
- 3OR-P-14
16:15
CLAUSIUS–CLAPEYRON RELATION FOR THE FIRST ORDER PHASE TRANSITION IN NI-MN-IN(CO) HEUSLER ALLOYS
Mashirov A.V., Kamantsev A.P., Koshelev A.V., Dilmieva E.T., Los A.S., Koledov V.V., Shavrov V.G.
- 3OR-P-15
16:30
MAGNETIC PROPERTIES OF NANOSTRUCTURED HEUSLER ALLOYS PREPARED BY PULSED LASER DEPOSITION
Checce N.R., Rossi A., Reis M.S.
- 3TL-P-16
16:45
DIRECT IN SITU STUDY OF MAGNETOCALORIC EFFECT IN HIGH MAGNETIC FIELDS UP TO 14 T
Shavrov V.G., Ćwik J., Dilmieva E.T., Kamantsev A.P., Khovaylo V.V., Koledov V.V., Koshkid'ko Yu.S., Mashirov A.V., Tereshina I.S.

14:30-17:00

Oral Session

Low Dimensional Magnetism

Chairperson: Alexander SMIRNOV

- 3TL-LT-5
14:30
TUNING OF MAGNETIC PROPERTIES IN LOW-DIMENSIONAL OXIDES
Möller A.
- 3TL-LT-6
15:00
ANISOTROPIC MAGNETISM AND SPIN GAP IN α RU CL₃
Büchner B.
- 3OR-LT-7
15:30
COEXISTENCE OF MAGNETICALLY ORDERED AND HALDANE STATES IN $(Y_{1-x}Nd_x)_2BaNiO_5$
Popova E.A., Klimin S.A., Popova M.N., Klingeler R., Büchner B., Vasiliev A.N.
- 3OR-LT-8
15:45
FORMATION OF THE GAPLESS TRIPLET DEGREES OF FREEDOM IN THE BOND-DILUTED SPIN-GAP MAGNET $(C_4H_{12}N_2)(Cu_2Cl_6)$
Glazkov V., Krasnikova Yu., Huvonen D., Zheludev A.
- 3OR-LT-9
16:00
LOW TEMPERATURE ESR IN SPIN LADDER $(C_7H_{10}N_2)_2Cu_{(1-x)}Zn_xBr_4$
Krasnikova Yu.V., Glazkov V.N., Fayzullin M.A., Schmidiger D., Zheludev A., Povarov K.Yu.

- 3OR-LT-10
16:15
- PHASE TRANSITIONS, RARE-EARTH SINGLE-ION ANISOTROPY,
AND POSSIBLE KOSTERLITZ-TOULESS TRANSITION IN
 $\text{Cu}_3\text{RE}(\text{SeO}_3)_2\text{O}_2\text{Cl}$**
Klimin S.A.
- 3OR-LT-11
16:30
- TRIMERIZED QUANTUM GROUND STATE IN COPPER POLYANIONIC
COMPOUND $\text{Cu}_3(\text{OH})_2\text{F}_4$**
*Danilovich I.L., Merkulova A.V., Morozov I.V., Ovchenkov Y.A., Zvereva E.A.,
Volkova O.S., Vasiliev A.N.*
- 3OR-LT-12
16:45
- THE NICKEL-MANGANESE LUDWIGITE
MAGNETIC PROPERTIES STUDY**
Nazarenko I.I., Sofronova S.N.

4 July, Tuesday

9:30-11:00

Plenary Lectures

Chairperson: Sergej DEMOKRITOV

4PL-A-1
9:30 **FERROMAGNETIC AND FERROELECTRIC. A WIN-WIN COUPLE**
Fontcuberta J.

4PL-A-2
10:15 **MAGNETISM AT ITS SMALLEST LIMIT**
Kirilyuk A.

11:30-13:15

Oral Session

Spintronics and Magnetotransport

Chairperson: Alexey KHVALKOVSKIY

4TL-A-1
11:30 **INTERFACE DZYALOSHINSKII-MORIYA INTERACTION, A BRILLOUIN SPECTROSCOPY STUDY**
Stashkevich A., Belmeguenai M., Roussigné Y., Chérif M.

4TL-A-2
12:00 **SPIN-WAVE EMISSION FROM TOPOLOGICAL SPIN TEXTURES**
Shuka V., Schneider T., Kakay A.¹, Weigand M., Schultheiss K., Warnatz T., Mattheis R., Gallardo R.A., Roldan-Molina A., Landeros P., Tiberkevich V., Slavin A., Erbe A., Deac A., Lindner J., Fassbender J., Raabe J., Wintz S.

4TL-A-3
12:30 **QUANTUM MAGNETOTRANSPORT IN TOPOLOGICAL SEMIMETALS**
Shen Shun-Qing

4OR-A-4
13:00 **LONG-LIVED SPIN-VALLEY POLARIZATION IN TRANSITION METAL DICHALCOGENIDE MONOLAYER AND HETEROSTRUCTURES**
Hsu Wei-Ting, Lu Li-Syuan, Chou Yi-Chia, Li Lain-Jong, Chang Wen-Hao

11:30-13:30

Oral Session

Skyrmions

Chairperson: Andrey FRAERMAN

4TL-B-1
11:30 **SKYRMION HALL EFFECT IN ANTIFERROMAGNETS AND FERROMAGNETS**
Tretiakov O.A.

4TL-B-2
12:00 **ENERGY SURFACE AND LIFETIME OF MAGNETIC SKYRMIONS**
Uzdin V.M., Potkina M.N., Lobanov I.S., Jónsson H.

4TL-B-3
12:30 **ROOM-TEMPERATURE CURRENT-INDUCED GENERATION AND MOTION OF SUB-100NM SKYRMIONS**
Legrand W., Maccariello D., Reyren N., Garcia K., Moutafis C., Moreau-Luchaire C., Collin S., Bouzehouane K., Cros V., Fert A.

4TL-B-4
13:00

MAGNETIC SKYRMIONS IN CONFINED GEOMETRIES

Farle M.

11:30-13:00

Oral Session

Magnetic Nanostructures and Low Dimensional Magnetism

Chairperson: Roman MORGUNOV

4RP-C-1
11:30

PROPERTIES OF MAGNETIC $(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_x(\text{Al}_2\text{O}_{3-y})_{100-x}$ AND $(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_x(\text{LiNbO}_{3-y})_{100-x}$ NANOCOMPOSITE STRUCTURES

Rylkov V.V., Sitnikov A.V., Demin V.A., Presnyakov M.Yu., Vasiliev A.L., Taldenkov A.N., Nikolaev S.N., Chernoglazov K.Yu., Kalinin Yu.E., Bugaev A.S., Tugushev V.V., Granovsky A.B.

4RP-C-2
11:45

MAGNETIC PROPERTIES AND ELECTRONIC STRUCTURE OF THE SURFACE ALLOYS OF LANTHANIDES WITH Au AND Ag

Ilyn M., Blanco-Rey M., Fernandez L., Ortega J.E., Schiller F.

4OR-C-3
12:00

MAGNETIC PROXIMITY EFFECT IN $(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3)_x(\text{CaCu}_3\text{T}_4\text{O}_{12})_{1-x}$ NANOSTRUCTURED COMPOSITES

Gavrilova T.P., Eremina R.M., Yatsyk I.V., Gilmutdinov I.F., Kiiamov A.G., Lyadov N.M., Kabiroy Yu.V.

4OR-C-4
12:15

MAGNETISM OF THE SPIN-LADDER LUDWIGITES $\text{Co}_{3-x}\text{Fe}_x\text{BO}_5$

Kazak N.V., Knyazev Yu.V., Platunov M.S., Bezmaternykh L.N., Rogalev A., Wilhelm F., Ovchinnikov S.G.

4OR-C-5
12:30

MAGNETIC RESONANCE AND STRUCTURAL INVESTIGATIONS OF PURE AND MIXED CuCr_2S_4 NANOCRYSTALS WITH THE STRONG INTERPARTICLE INTERACTIONS

Pankrats A., Vorotynov A., Tugarinov V., Zharkov S., Zeer G., Gupta A., Ramasamy K.

4OR-C-6
12:45

MAGNETIC RESONANCE IN $[(\text{CoP})_{\text{soft}}/\text{NiP}/(\text{CoP})_{\text{hard}}/\text{NiP}]_n$ MULTILAYER FILMS

Patrin G.S., Shiyan Ya.G., Orlov V.A., Patrin K.G., Furdyk V.P.

11:30-13:00

Oral Session

Magnetism and Superconductivity

Chairperson: Lenar TAGIROV

4TL-D-1
11:30

ENHANCEMENT OF THE PAULI LIMIT IN DISORDERED TRANSITION METAL DICHALCOGENIDE MONOLAYERS

Ilic S., Houzet M., Meyer J.S.

4TL-D-2
12:00

SUPERCONDUCTING QUANTUM METAMATERIALS: CHAOS AND DISORDER

Kawabata S., Asai H., Savel'ev S., Zagoskin A.

4RP-D-3 **SUBGAP STATES IN DISORDERED SUPERCONDUCTORS WITH
STRONG MAGNETIC IMPURITIES**

12:30

Fominov Ya., Skvortsov M.

4RP-D-4 **MAGNETIC DISORDER IN SUPERCONDUCTORS: ENHANCEMENT BY
MESOSCOPIC FLUCTUATIONS**

12:45

Burmistrov I.S., Skvortsov M.A.

11:30-13:00

Oral Session

Topological Insulators

Chairperson: Victor TUGUSHEV

4TL-E-1 **QUANTUM SPIN AND ANOMALOUS HALL EFFECTS IN
TOPOLOGICAL INSULATOR SYSTEMS: RECENT AB-INITIO AND
MODEL RESULTS**

11:30

*Chulkov E.V., Men'shov V.N., Otrokov M.M., Ereemeev S.V., Menshchikova T.V.,
Silkin I.M., Shvets I.A., Nechaev I.A., Koroteev Y.M., Tugushev V.V., Ernst A.*

4TL-E-2 **COMPETING ELECTRONIC PHASES IN THE CRYSTALLINE
TOPOLOGICAL INSULATOR Pb(x)Sn(1-x)Te**

12:00

Kundu S., Tripathi V.

4TL-E-3 **LOCAL MAGNETIC MOMENTS IN THE TOPOLOGICAL INSULATORS**

12:30

Sakhin V., Kukovitskii E., Garifyanov N., Talanov Yu., Teitel'baum G.

11:30-13:00

Oral Session

Multiferroics

Chairperson: Alexander MUKHIN

4TL-F-1 **DIRECTIONAL ANISOTROPY OF LIGHT IN MULTIFERROICS**

11:30

Pimenov A.

4OR-F-2 **CRYSTAL-FIELD AND EXCHANGE-INTERACTION PARAMETERS FOR
MULTIFERROIC ErFe₃(BO₃)₄**

12:00

*Erofeev D.A., Chukalina E.P., Yablunovsky A., Popova M.N., Malkin B.Z.,
Gudim I.A.*

4OR-F-3 **VOLTAGE TUNABLE MULTIFERROIC MAGNONIC CRYSTALS**

12:15

*Drozdovskii A.V., Vitko V.V., Nikitin A.A., Ustinov A.B., Serga A.A., Chumak A.V.,
Hillebrands B.*

4OR-F-4 **ULTRAFAST COOLING AND HEATING SCENARIOS FOR THE LASER-
INDUCED PHASE TRANSITION IN CUO**

12:30

Hellsvik J., Mentink J.H., Lorenzana J.

4OR-F-5 **MULTIFERROICITY OF CuCrO₂ TESTED BY ESR**

12:45

Gotovko S.K., Soldatov T.A., Svistov L.E., Zhou H.D.

11:30-13:00

Oral Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Régine PERZYNSKI

4TL-G-1

11:30

DYNAMICS OF MAGNETO-SENSITIVE ELASTOMERS

Ivaneyko D., Toshchevnikov V., Saphiannikova M.

4TL-G-2

12:00

**MAGNETORHEOLOGICAL RESPONSE OF HIGHLY FILLED
MAGNETOACTIVE ELASTOMERS FROM PERSPECTIVE OF
MECHANICAL ENERGY DENSITY**

Sorokin V.V., Belyaeva I.A., Shamonin M., Kramarenko E.Yu.

4TL-G-3

12:30

**MAGNETO-ELASTIC COUPLING AS A TOOL TO TUNE THE
MACROPROPERTIES OF SOFT MATTER**

Kantorovich S.S., Minina E.S., Sanchez P.A.

11:30-13:00

Oral Session

Scientific equipment

Chairperson: Artem CHETVERTUKHIN

4TL-H-1

11:30

CRYOGENIC EQUIPMENT FOR MAGNETIC MEASUREMENTS

Bugoslavsky Yu.

4RP-H-2

12:00

**CRYOGENIC EQUIPMENT FOR FULL CYCLE OF LOW
TEMPERATURE RESEARCH: CRYOSTATS, CONTROLLERS,
MEASUREMENT EQUIPMENT, AMPLIFIERS, ACCESSORIES**

Omirov A.

4OR-H-3

12:15

**MAGNETIC DOMAIN MICROSCOPE EQUIPPED WITH MEASUREMENT
FUNCTION OF LOW NOISE MO KERR LOOP BY LASER**

Odagiri Y., Yanagisawa E., Meguro S., Urubkov I., Saito S.

4OR-H-4

12:30

**SMALL-ANGLE NEUTRON SCATTERING MACHINE WITH POLARIZED
OPTION FOR PIK REACTOR**

Shishkin I.S., Moskvina E.V., Eckerlebe H., Grigoriev S.V.

4OR-H-5

12:45

**SCIENTIFIC EQUIPMENT FOR LOCAL MAGNETIC PROPERTIES
INVESTIGATIONS**

Odagiri Y., Wada A., Hatano S., Miyatake Y., Tatsumi H., Kawabe T., Urubkov I.V.

11:30-13:00

Oral Session

Magnetism in Biology and Medicine

Chairperson: Marco COISSON

- 4TL-O-1
11:30 **MAGNETIC MICROPARTICLES VIBRATIONS AT LOW FREQUENCY: A NEW APPROACH TO FIGHTING CANCER**
Naud C., Joisten H., Leulmi L., Iss C., Morcrette M., Morel R., Ortiz G., Truong A., Hou Y., Livache T., Calemczuk R., Carriere M., Sabon P., Joumard I., Auffret S., Dieny B.
- 4TL-O-2
12:00 **MAGNETIC NANOTECHNOLOGY FOR BIOMEDICAL APPLICATIONS**
Kosel J., Perez J.E., Alsharif N.A., Martinez Banderas A., Alfadhel A., Yassine O., Contreras M.F.
- 4RP-O-3
12:30 **HIGHLY SENSITIVE MAGNETIC NANOPARTICLE QUANTIFICATION METHOD AND ITS APPLICATION FOR MULTIPLEX BIOSENSING**
Nikitin P.I., Orlov A.V., Znoyko S.L., Bragina V.A., Gorshkov B.G., Cherkasov V.R., Nikitin M.P.
- 4RP-O-4
12:45 **DESIGN AND STUDY OF CORE-SHELL MAGNETIC NANOPARTICLES**
Kamzin A.S.

11:30-13:00**Oral Session****Theory****Chairperson: Alexander MOROSOV**

- 4TL-P-1
11:30 **TEMPERATURE DEPENDENT POLARONIC BAND STRUCTURE IN THE 3 BAND P-D MODEL WITH STRONG ELECTRON-PHONON INTERACTION**
Makarov I.A., Ovchinnikov S.G., Shneyder E.I.
- 4TL-P-2
12:00 **MAGNETIC FRICTION: TOWARDS MICROSCOPIC DESCRIPTION INCLUDING THERMAL EFFECTS**
Rudoy Yu.G., Kotelnikova O.A.
- 4RP-P-3
12:30 **ITINERANT FERROMAGNETISM IN TWO-COMPONENT ONE-DIMENSIONAL FERMİ GASES**
Jiang Yu., Kurllov D.V., Guan Xi-Wen, Schreck F., Shlyapnikov G.V.
- 4RP-P-4
12:45 **QUANTUM TRANSITIONS FROM ORDERED TO GLASSY PHASES IN MAGNETS WITH QUENCHED DISORDER**
Syromyatnikov A.V.

11:30-13:15**Oral Session****Low Dimensional Magnetism****Chairperson: Alexander VASILIEV**

- 4TL-LT-1
11:30 **ELECTRONIC STRUCTURE OF LOW-DIMENSIONAL SPIN SYSTEMS**
Saha-Dasgupta T.

- 4TL-LT-2
12:00 **INTERACTING SPIN ISLANDS IN A DEPLETED SPIN LADDER**
Povarov K.Yu., Schmidiger D., Galeski S., Reynolds N., Bewley R., Guidi T., Ollivier J., Zheludev A.
- 4TL-LT-3
12:30 **EXOTIC PHASE TRANSITIONS IN THE MIXED VALENCE CHROMIUM OXIDES**
Isobe M., Etter M., Sakurai H., Dinnebier R.E., Takagi H.
- 4OR-LT-4
13:00 **DIFFRACTION STUDIES OF THE LOW-DIMENSIONAL FRUSTRATED MAGNETISM OF LAYERED HONEYCOMB AND TRIANGULAR OXIDES**
Kurbakov A.I., Kuchugura M.D., Korshunov A.N., Podchezertsev S.Yu., Rodriguez-Carvajal J., Senyshyn A., Zvereva E.A., Nalbandyan V.B.

12:00-14:00

Poster Session

Soft and Hard Magnetic Materials

Chairperson: Irina TERESHINA

- 4PO-I1-1 **PECULIARITIES OF THE COERCIVITY KINETICS AND CRYSTAL STRUCTURE OF THE SINTERED $\text{Sm}(\text{Co}_{0.78}\text{Fe}_{0.10}\text{Cu}_{0.10}\text{Zr}_{0.02})_7$ MAGNET ARISING IN THE COURSE OF THE STEP COOLING**
Gaviko V.S., Popov A.G., Golovnia O.A., Protasov A.V.
- 4PO-I1-2 **MAGNETIC VISCOSITY IN ND-FE-B RAPIDLY QUENCHED ALLOYS**
Volegov A.S., Perepyolkina A.V., Volegova E.A., Kudrevatykh N.V.
- 4PO-I1-3 **SPONTANEOUS MAGNETIZATION REVERSAL CAUSED BY MAGNETIC NOISE IN $\epsilon\text{-In}_{0.24}\text{Fe}_{1.76}\text{O}_3$ NANOPARTICLES**
Dmitriev A., Kostyuchenko S.
- 4PO-I1-4 **INFLUENCE OF ADDITIONAL COMPOUNDS ON COERCIVITY OF SINTERED ND-FE-B MAGNETS**
Pham Thi Thanh, Nguyen Van Duong, Nguyen Hai Yen, Nguyen Mau Lam, Kamantsev A.P., Koledov V.V., Mashirov A.V., Nguyen Huy Dan
- 4PO-I1-5 **HYSTERESIS PROPERTIES OF AMORPHOUS FERROMAGNETIC RIBBONS**
Grebenshchikov Yu.B., Skomarovsky V.S., Lyubimov B.Ya., Tarasov V.P., Ignatov A.S., Gudoshnikov S.A.
- 4PO-I1-6 **IN-SITU RESISTANCE MEASUREMENT OF CO-RICH AMORPHOUS FERROMAGNETIC MICROWIRES DURING DC JOULE HEATING**
Odintsov V.I., Menshov S.A., Popova A.V., Mashera V.S., Gorelikov E.S., Gudoshnikov S.A.
- 4PO-I1-7 **PHASE TRANSITIONS IN THE DOMAIN STRUCTURE OF AN UNIAXIAL MAGNETIC FILM**
Siryuk Ju.A., Bezus A.V., Bondar E.D., Smirnov V.V.

- 4PO-I1-8 **TUNING LOCAL MAGNETIC ANISOTROPY IN CORE-SHELL Co@Cu PARTICLES BY DYNAMIC COMPACTING AND THE SHELL BUILD-UP**
Kuzovnikova L.A., Denisova E.A., Chekanova L.A., Nemtsev I.V., Komogortsev S.V., Iskhakov R.S.
- 4PO-I1-9 **STRUCTURAL PHASE TRANSITIONS IN MAGNETIC ELASTOMERS**
Farzetdinova R.M., Meilikhov E.Z.
- 4PO-I1-10 **MAGNETIC PROPERTIES OF THE NON-STOICHIOMETRIC TbCo₂Ni_x ALLOYS**
Inishev A.A., Gerasimov E.G., Mushnikov N.V., Terentev P.B., Gaviko V.S.
- 4PO-I1-11 **MAGNETIC PROPERTIES OF A (Nd_{0.5}Pr_{0.5})₂Fe₁₄B SINGLE CRYSTAL**
Politova G.A., Tereshina I.S., Gorbunov D.I., Rogacki K., Volegov A.S., Kudrevatykh N.V., Andreev A.V.
- 4PO-I1-12 **SYNTHESIS OF FeNi TETRATAENITE PHASE BY MEANS OF CHEMICAL PRECIPITATION**
Kurichenko V.L., Karpenkov D.Yu., Khovaylo V.V.
- 4PO-I1-13 **STUDY OF PHASE TRANSFORMATIONS OF HARD MAGNETIC ALLOYS Fe – Cr – Co**
Ostrizhnyaya M.A., Abilov I., Zhukov A.A., Cherdantseva V.V., Perminov A.S., Lileev A.S.
- 4PO-I1-14 **STRESS EFFECTS ON MAGNETIC PROPERTIES OF AMORPHOUS MICROWIRES SUBJECTED TO CURRENT ANNEALING**
Nematov M.G., Adam A.M., Salem M.M., Yudanov N.A., Yakubtsev R.A., Panina L.V., Morchenko A.T.
- 4PO-I1-15 **A THEORETICAL STUDY OF SPINODAL DECOMPOSITION IN TERNARY Fe-Cr-Co SYSTEM**
Mukhamedov B.O., Ponomareva A.V., Abrikosov I.A.
- 4PO-I1-16 **COMPETITION OF EXCHANGE INTERACTIONS IN LAYERED La_{1-x}Gd_xMn₂Si₂ COMPOUNDS**
Terentev P.B., Gerasimov E.G., Mushnikov N.V., Gaviko V.S., Yazovskikh K.A.
- 4PO-I1-17 **GIANT FORCED MAGNETOSTRICTION IN Tb_{0.2}Gd_{0.8} SINGLE CRYSTAL**
Nikitin S.A., Rogacki K., Zvonov A.I., Ivanova T.I., Koshkid'ko Yu.S., Cwik J.
- 4PO-I1-18 **EFFECT OF AGEING ON THE MAGNETIC PROPERTIES OF RAPIDLY QUENCHED Nd-rich Nd-Fe ALLOYS**
Wiafe-Akenteng D., Menushenkov V.P., Shchetinin I.V., Savchenko A.G.
- 4PO-I1-19 **RESONANT INTERACTION OF MAGNETIC BREATHERS AND DOMAIN WALLS IN MULTILAYER FERROMAGNETIC STRUCTURES**
Ekomasov E.G., Gumerov A.M., Kudryavtsev R.V., Abakumova N.N.
- 4PO-I1-20 **COMPETING ANISOTROPY IN THE (Tm_xPr_{1-x})₂Fe₁₇ SYSTEM**
Platonov S.P., Kuchin A.G., Volegov A.S., Korolev A.V., Neznakhin D.S., Voronin V.I., Proskurnina N.V., Kolodkin D.A.

- 4PO-I1-21 **CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF LAYERED COMPOUNDS $\text{Fe}_{2/3}\text{Ti}(\text{S},\text{Se})_2$: INFLUENCE OF THE SELENIUM FOR SULFUR SUBSTITUTION**
Selezneva N.V., Sherokalova E.M., Baglaeva J.A., Volegov A.S., Baranov N.V.
- 4PO-I1-22 **MAGNETIC PROPERTIES AND STRUCTURE OF THE MELT SPUN $(\text{Sm}_{1-x}\text{Zr}_x)(\text{Fe}_{0.92}\text{Ti}_{0.08})_{10}$ ALLOYS**
Popov A.G., Protasov A.V., Gaviko V.S., Kolodkin D.A., Terentev P.B.
- 4PO-I1-23 **FRUSTRATED STATE OF Tb IN LAYERED $\text{La}_{1-x}\text{Tb}_x\text{Mn}_2\text{Si}_2$ COMPOUNDS**
Gerasimov E.G., Mushnikov N.V., Pirogov A.N., Yazovskikh K.A.
- 4PO-I1-24 **CONTROLLED PINNING OF DOMAIN WALLS IN PLANAR FERROMAGNETIC NANOWIRES**
Ermolaeva O.L., Mironov V.L.

12:00-14:00

Poster Session

Soft and Hard Magnetic Materials 2

Chairperson: Natalia KAZAK

- 4PO-I-1 **MAGNETIC PROPERTIES OF Fe-Pt AND Fe-Pt- M (M=B, Si) MICROWIRES**
Zhukova V., Ipatov M., Aronin A., Abrosimova G., del Val J.J., Zhukov A.
- 4PO-I-2 **THE ORIGIN OF THE MAGNETOCRYSTALLINE ANISOTROPY IN FERRITES**
Kotov L.N., Beznosikov D.S.
- 4PO-I-3 **INTERACTION OF AMORPHOUS SOFT MAGNETIC ALLOY WITH VAPOR AT HEAT TREATMENT IN AIR**
Skulkina N.A., Stepanova E.A., Ivanov O.A., Voronova A.V.
- 4PO-I-4 **CA-AL SUBSTITUTED STRONTIUM HEXAFERRITE WITH GIANT COERCIVITY AND EXTREMELY HIGH FMR FREQUENCY**
Sleptsova A.E., Trusov L.A., Gorbachev E.A., Mitrofanova E.S., Roslyakov I.V., Lebedev V.A., Vasiliev A.V., Zaytsev D.D., Gorshunov B.P., Kazin P.E., Dinnebier R.E., Jansen M.
- 4PO-I-5 **STRUCTURE FORMATION AND MAGNETIC PROPERTIES CHANGES OF NANOCOMPOSITE ALLOYS BASED ON Nd-Fe-B SYSTEM WITH Cu ADDITIVES PRODUCED BY MECHANOCHEMICAL SYNTHESIS**
Panov K., Shchetinin I.V., Gudimenko E.S., Gorshenkov M.V., Savchenko E.S., Menushenkov V.P., Savchenko A.G.
- 4PO-I-6 **INFLUENCE OF SEVERE PLASTIC DEFORMATION ON FeCo ALLOYS**
Shirshikov S.O., Muradimova L., Zadorozhny V.Y., Glezer A.M.

- 4PO-I-7 **HYSTERESIS PROPERTIES AND STRUCTURE OF Nd₂Fe₁₄B/ α -Fe NANOCOMPOSITES SYNTHESIZED BY A MECHANICAL ALLOYING TECHNIQUE**
Rafalskii A.I., Savchenko A.G., Schetinin I.V., Bordyuzhin I.G., Menushenkov V.P., Medvedeva T.M.
- 4PO-I-8 **THE EFFECTIVENESS OF THE SCREENING CONSTANT MAGNETIC FIELD BY MULTI-LAYERED FILM SYSTEM OF NiFe/Cu**
Muravyev-Smirnov S.S., Vlasik K.F., Grabchikov S.S., Grachev V.M., Dmitrenko V.V., Lipatov K.A., Ulin S.E., Uteshev Z.M.
- 4PO-I-9 **STRUCTURAL AND MAGNETIC ANISOTROPY OF DIRECTIONALLY-CRYSTALLIZED FERROMAGNETIC MICROWIRES**
Evstigneeva S.A., Volodina N.O., Yudanov N.A., Trukhanov A.V., Morchenko A.T., Panina L.V., Larin V.S., Salem M.M.
- 4PO-I-10 **DOMAIN WALLS DRIFT IN PULSED MAGNETIC FIELDS IN IRON GARNET CRYSTAL PLATES**
Pamyatnykh L.A., Mekhonoshin D.S., Pamyatnykh S.E., Lysov M.S., Agafonov L.Y., Shmatov G.A.
- 4PO-I-11 **AMPLITUDE DEPENDENCES OF MAGNETIC LOSSES IN NANOCRYSTALLINE ALLOYS WITH INDUCED ANISOTROPY**
Kataev V.A., Starodubtsev Yu.N., Mikhailitsyna E.A., Bessonova K.O.
- 4PO-I-12 **MAGNETIC SHAPE MEMORY COMPOSITES BASED ON COPOLYURETHANEIMIDES, MODIFIED BY CoFe₂O₄ AND Al₃Fe₅O₁₂ NANOPARTICLES**
Bugrov A.N., Runov V.V., Kopitsa G.P., Smyslov R.Yu., Kirillova S.A.
- 4PO-I-13 **MAGNETIC STRUCTURE EVOLUTION OF THE AMORPHOUS SOFT MAGNETIC WIRE**
Moiseev A.A., Kudryavtsev V.O., Derevyanko M.S., Morozova N.V., Gavriluk A.A., Semirov A.V.
- 4PO-I-14 **MAGNETIZATION PROCESS IN FERROMAGNETIC AMORPHOUS MICROWIRES FOR STRUCTURAL HEALTH MONITORING**
Salem M.M., Nematov M.G., Adam A.M., Dzhumazoda A., Panina L.V., Morchenko A.T.
- 4PO-I-15 **STRESS INDUCED MAGNETIC DOMAIN STRUCTURE IN DyFe₁₁Ti COMPOUND**
Semenova E.M., Lyakhova M.B., Karpenkov D.Yu., Kuznetsova Yu.V., Karpenkov A.Yu., Skokov K.P.
- 4PO-I-16 **dM PLOTS OF THE EXCHANGE-COUPLED STONER-WOHLFARTH ENSEMBLE**
Bolyachkin A.S., Kudrevatykh N.V.
- 4PO-I-17 **ELECTROMAGNETIC ABSORPTION OF COMPOSITES BASED ON EPOXY RESIN AND IRON NANOPARTICLES**
Krekhnova R.V., Safronov A.P., Beketova A.I., Beketov I.V.

4PO-I-18 **MAGNETIC MICROSTRUCTURE OF Fe-Cu-Nb-Si-B THIN FILMS**
*Mikhalitsyna E.A., Kataev V.A., Soboleva E., Geydt P., Zakharchuk I.,
 Lähderanta E.*

4PO-I-19 **STATIC AND HIGH-FREQUENCY MAGNETIC PROPERTIES OF
 NANOCRYSTALLINE Fe-Zr-N FILMS**
*Sheftel E.N., Harin E.V., Tedzhetov V.A., Rozanov K.N., Zezyulina P.A.,
 Kiryukhantsev-Korneev F.V.*

4PO-I-20 **EFFECT OF ALLOYING ELEMENTS AND HEAT TREATMENT
 CONDITIONS ON THE 1:12 PHASE FORMATION IN THE
 Sm-Zr(Hf)-Fe-Co-Ti ALLOYS**
*Urzhumtsev A.N., Anikin M.S., Kudrevatykh N.V., Tarasov E.N., Moskalev V.N.,
 Zinin A.V., Cherepkov M.O.*

4PO-I-21 **HEAT TREATMENT OF HARD MAGNETIC Mn-Bi IN A MAGNETIC
 FIELD**
Volkov K.D., Urzhumtsev A.N., Tarasov E.N., Zinin A.V.

4PO-I-22 **INTERGRAIN EXCHANGE INTERACTION OF Nd-Fe-Co-B ALLOYS**
Alekseev I.V., Andreev S.V., Selezneva N.V., Volegov A.S.

4PO-I-23 **MAGNETIC PROPERTIES OF TEXTURED NiFe(200) AND NiFe(111)
 PRODUCED BY dc-SPUTTERING**
Dzhumaliev A., Nikulin Yu., Filimonov Yu.

4PO-I-24 **MODELING OF THE DYNAMICS AND STRUCTURE OF MAGNETIC 3D-
 PULSONS AND 3D-SOLITONS IN FERROMAGNETICS WITH DEFECTS**
Salimov R.K., Ekomasov E.G.

4PO-I-25 **FERROMAGNETIC RESONANCE STUDY OF THE
 ANTIFERROMAGNETIC-FERROMAGNETIC PHASE TRANSITION
 IN FeRh**
*Semisalova A., Ehrler J., Barton C., Thomson Th., Lenz K., Fassbender J.,
 Potzger K., Lindner J.*

12:00-14:00

Poster Session

Soft and Hard Magnetic Materials 3

Chairperson: Ivan TITOV

4PO-J-1 **MAGNETIC PROPERTIES OF Tm₂Fe₁₆ UNDER PRESSURE**
Kuchin A.G., Arnold Z., Kamarád J., Platonov S.P.

4PO-J-2 **XMCD CHARACTERIZATION OF MAGNETIC PHASES IN AS-CAST
 AND RAPIDLY QUENCHED Fe-Nd ALLOYS**
*Menushenkov V.P., Menushenkov A.P., Shchetinin I.V., Wilhelm F., Ivanov A.A.,
 Rudnev I.A., Ivanov V.G., Rogalev A., Savchenko A.G., Zhukov D.G.,
 Rafalskiy A.V., Ketov S.V.*

- 4PO-J-3 **MAGNETIC AND STRUCTURAL PROPERTIES OF Zr-Co THIN GETTER FILMS**
Moulin J., Lemettre S., Bosseboeuf A.
- 4PO-J-4 **INFLUENCE OF THE STEP ANNEALING ON THE MAGNETIC HYSTERESIS PROPERTIES AND STRUCTURE OF THE $\text{Fe}_{50}\text{Pd}_{50-x}\text{Ni}_x$ ALLOYS (X = 0, 4, AND 8)**
Popov A.G., Vlasova N.I., Gaviko V.S., Golovnia O.A., Tolmachev T.P.
- 4PO-J-5 **THE IMPACT OF STRESS ON MAGNETIC PROPERTIES OF FINEMET TYPE AMORPHOUS ALLOYS**
Shuvaeva E., Churyukanova M., Hriplevets I., Roy R.K., Premkumar
- 4PO-J-6 **POLYMER COATING AND MAGNETIC PROPERTIES OF CO-BASED AMORPHOUS ALLOYS**
Skulkina N.A., Mazeeva A.K., Ivanov O.A., Kuznetsov P.A., Chekis V.I., Denisov N.D.
- 4PO-J-7 **THE INFLUENCE OF ISOTROPIC COMPOSITIONAL ORDERING ON HYSTERESIS MAGNETIC PROPERTIES OF Co-BASED AMORPHOUS ALLOY WITH LOW MAGNETOSTRICTION**
Kekalo I.B., Mogilnikov P.S., Ushakova O.A.
- 4PO-J-8 **MAGNETIC ANISOTROPY OF NANOSTRUCTURED RODS BASED ON ELECTROLESS DEPOSITED 3-d METAL ALLOYS**
Denisova E.A., Chekanova L.A., Komogortsev S.V., Nemtsev I.V., Iskhakov R.S.
- 4PO-J-9 **DEFORMATION INDUCED MARTENSITE IN DUPLEX STAINLESS STEELS**
Ogneva M.S., Rigmant M.B., Davidov D.I., Kazantseva N.V.
- 4PO-J-10 **JUMPWISE DEMAGNETIZATION OF $[\text{Mn(II)(HL)(H}_2\text{O)}][\text{Mn(III)(CN)}_6]\cdot 2\text{H}_2\text{O}$ MOLECULAR FERRIMAGNET**
Kirman M., Morgunov R., Vasiliev L.
- 4PO-J-11 **THE NANOCRYSTALLINE Fe- AND Co-BASED SOFT MAGNETIC ALLOYS WITH REFRACTORY ELEMENTS: PROPERTIES AND THERMAL STABILITY**
Lukshina V.A., Dmitrieva N.V., Filippov B.N., Volkova E.G., Shishkin D.A., Potapov A.P.
- 4PO-J-12 **EXCHANGE SPRING MAGNET IN NANOCOMPOSITE OF STRONTIUM FERRITE/NICKEL FERRITE**
Ghasemi A., Ashrafizadeh A.
- 4PO-J-13 **MONTE CARLO STUDY OF MAGNETIC STRUCTURES IN RARE-EARTH AMORPHOUS ALLOYS**
Bondarev A.V., Bataronov I.L.
- 4PO-J-14 **FLUX CRYSTAL GROWTH AND THE ELECTRONIC STRUCTURE OF $\text{BaFe}_{12}\text{O}_{19}$ HEXAFERRITE**
Atuchin V.V., Vinnik D.A., Gavrilova T.A., Gudkova S.A., Isaenko L.I., Jiang X., Pokrovsky L.D., Prosvirin I.P., Mashkovtseva L.S.³, Lin Z.

- 4PO-J-15 **MAGNETIC INVESTIGATION OF LOW TEMPERATURE MAGNETIC
PHASE TRANSITION IN IRON SELENIDES**
Baluyan T., Novakova A., Perov N.
- 4PO-J-16 **TUNING OF THE DOMAIN WALL DYNAMICS BY MAGNETOELASTIC
INTERACTION**
Chichay K., Rodionova V., Zhukova V., Perov N., Zhukov A.
- 4PO-J-17 **ORIGIN OF PERPENDICULAR MAGNETIC ANISOTROPY IN
EPITAXIAL Pd/Co/Pd TRILAYERS**
*Davydenko A.V., Kozlov A.G., Ognev A.V., Steblyi M.E., Samardak A.S.,
Ermakov K.S., Kolesnikov A.G., Chebotkevich L.A.*
- 4PO-J-18 **HISTERESIS LOOPS OF FILMS WITH PERPENDICULAR MAGNETIC
ANISOTROPY AND LOW QUALITY FACTOR. MICROMAGNETIC
SIMULATION**
Dubovik M.N., Filippov B.N.
- 4PO-J-19 **STUDY OF THE FERROLIQUIDS WITH COBALT FERRITE
NANOPARTICLES USING POLARIZED MUONS**
*Duginov V.N., Andrievskii D.S., Balasoiu M., Fluerașu D., Getalov A.L.,
Gritsaj K.I., Komarov E.N., Kotov S.A., Mamedov T.N., Moroslip A.E.,
Scherbakov G.V., Stan C., Vorob'ev S.I.*
- 4PO-J-20 **HIGH-FIELD MAGNETIZATION INVESTIGATIONS OF NdHoFe₁₄B:
EXPERIMENT AND THEORY**
*Kostyuchenko N.V., Tereshina I.S., Gorbunov D.I., Tereshina E.A., Andreev A.V.,
Doerr M., Politova G.A., Zvezdin A.K.*
- 4PO-J-21 **"DOMAIN SMILE" IN (Pr,Dy)(Fe,Co)B MAGNET**
Kunitsyna E.I., Morgunov R.B., Koplak O.V.
- 4PO-J-22 **RESEARCH OF REVERSIBILITY OF COERCIVITY UNDER HEAT
TREATMENT IN PERMANENT MAGNETS**
Lileev A.S., Pinkas V.V., Voronchihina K.V., Gunbin A.V.
- 4PO-J-23 **NON-BARKHAUSEN JUMPS IN SINTERED (NdDy)(FeCo)B MAGNET**
Kucheryaev V.V., Piskorskii V.P.², Morgunov R.B.
- 4PO-J-24 **FABRICATION, STRUCTURAL AND MAGNETIC CHARACTERIZATION
OF PARTIALLY COVERED MAGNETICALLY BIPHASE MICROWIRES**
Baraban I., Chichay K., Berganza E., Perez R., Rodionova V., Vazquez M.

12:00-14:00

Poster Session

Magnetic Shape Memory and Magnetocaloric Effect

Chairperson: Alexey MASHIROV

- 4PO-K-1 **DOUBLE MAGNETOCALORIC PEAK IN NI-MN-IN BASED HEUSLER
ALLOYS**
*Rodionov I.D., Dubenko I.S., Prudnikov V.N., Granovsky A.B., Titov I.S.,
Saletsky A.M.*

- MAGNETIC PROPERTIES OF IRON-CONTAINING SUPERELASTIC ALLOYS**
 4PO-K-2 *Koledov V.V., Kamantsev A.P., Kalashnikov V.S.¹, Koshelev A.V., Dilmieva E.T., Los A.S., Mashirov A.V., Kuchin D.S., Taskaev S.V., Sampath V., von Gratowski S.V., Shavrov V.G.*
- REVERSIBLE-IRREVERSIBLE MAGNETOCALORIC EFFECT IN NI-MN-IN-(CU) HEUSLER ALLOYS**
 4PO-K-3 *Gamzatov A.G., Aliev A.M., Batdalov A.B., Varzaneh A.G., Kameli P., Sarsari I.*
- GIANT MAGNETOCALORIC EFFECT IN COMPOSITES BASED ON POLYMERIC MATRIX AND MANGANESE ARSENIDE**
 4PO-K-4 *Govor G.A., Vetcher A.K., Mitsiuk V.I., Nikitin S.A., Pankratov N.Yu., Krokhotin A.I.*
- THE ORIGIN OF MARTENSITIC TRANSITION IN HEUSLER ALLOY Ni-Mn-In POLYCRUSTALLINE THIN FILMS**
 4PO-K-5 *Grunin A., Goikhman A., Maksimova K.*
- INFLUENCE OF PLASTIC DEFORMATION ON MICROSTRUCTURE OF HEUSLER ALLOY**
 4PO-K-6 *Musabirov I.I., Safarov I.M., Galeev R.M.¹, Koledov V.V., Mulyukov R.R.*
- GIANT MAGNETOCALORIC EFFECT IN Mn(As,P) IN CYCLIC MAGNETIC FIELDS**
 4PO-K-7 *Aliev A.M., Gamzatov A.G., Batdalov A.B., Mukhuchev A.A., Govor G.A., Yanushkevich K.I., Galias A.I.*
- PECULIARITIES OF THE MAGNETOCALORIC EFFECT IN THE FIRST ORDER PHASE TRANSITIONS MATERIALS IN CYCLIC MAGNETIC FIELDS**
 4PO-K-8 *Kurbanova D.R., Aliev A.M., Batdalov A.B., Gamzatov A.G., Khanov L.N., Koledov V.V., Shavrov V.G.*
- MAGNETIC AND STRUCTURAL CONTRIBUTION TO MAGNETOCALORIC EFFECT**
 4PO-K-9 *Khanov L.N., Batdalov A.B., Mukhuchev A.A., Aliev A.M.*
- SPECIFIC HEAT AND MAGNETOCALORIC PROPERTIES OF CU₂MNBO₅ LUDWIGITE**
 4PO-K-10 *Gamzatov A.G., Aliev A.M., Moshkina E., Bezmaternykh L.*
- MAGNETOSTRICTION AND MAGNETOCALORIC EFFECT IN THE Ni₄₆Mn₄₁IN₁₃ HEUSLER ALLOY**
 4PO-K-11 *Batdalov A.B., Aliev A.M., Khanov L.N., Koledov V.V., Shavrov V.G.*
- LATTICE DYNAMIC OF ANTIFERRO- AND FERRO-MAGNETIC PHASES OF FeRh**
 4PO-K-12 *Syzdykova A.B., Belov M.P., Ponomareva A.V., Smirnova E.A., Abrikosov I.A.*
- MARTENSITIC TRANSFORMATION AND MAGNETIC PROPERTIES IN Ni-Mn-Ga/Al₂O₃ AND FREESTANDING FILMS**
 4PO-K-13 *Shevyrtalov S., Miki H., Ohtsuka M., Mashirov A., Grunin A., Lyatun I., Seredina M., Khovaylo V., Rodionova V.*

- 4PO-K-14 **MAGNETOCALORIC EFFECT OF $\text{Gd}(\text{T-Fe})_2$ COMPOUNDS, WERE T = Co, Ni**
Anikin M.S., Tarasov E.N., Kudrevatykh N.V., Zinin A.V.
- 4PO-K-15 **EFFECT OF SUBSTITUTION ON MAGNETOCALORIC PROPERTIES OF MELT-SPUN $\text{Gd}_{75}(\text{Fe}_{1-x}\text{M}_x)_{25}$ (M = Co, Ni) ALLOYS**
Shishkin D.A., Gazizov A.I., Volegov A.S., Gaviko V.S., Baranov N.V.
- 4PO-K-16 **BARIC PECULIARITIES OF THE MAGNETIC AND MAGNETOCALORIC PROPERTIES OF THE $\text{Mn}_{1-x}\text{Cr}_x\text{NiGe}$ SYSTEM**
Valkov V.I., Gribanov I.F., Golovchan A.V., Zaporozhets V.D.
- 4PO-K-17 **MAGNETOCALORIC EFFECT IN FeRhPd ALLOYS IN THE FIRST ORDER MAGNETIC PHASE TRANSITION TEMPERATURE REGION**
Gimaev R.R., Zverev V.I., Tishin A.M., Miyanaga T.
- 4PO-K-18 **INVESTIGATION OF MAGNETIC PHASE TRANSITION AND MAGNETOCALORIC EFFECT OF (Ni,Co)-Mn-(Sn,Al) MELT-SPUN RIBBONS**
Nguyen Hai Yen, Vu Manh Quang, Nguyen Thi Mai, Pham Thi Thanh, Kamantsev A.P., Koledov V.V., Mashirov A.V., Tran Dang Thanh, Kieu Xuan Hau, Yu S.C., Nguyen Huy Dan
- 4PO-K-19 **STRUCTURAL, MAGNETIC AND THERMAL PROPERTIES OF HEUSLER ALLOYS Pd_2MnX (X=Ga, Ge, As, In, Sn, Sb, Tl, Pb, Bi): AB INITIO STUDY**
Miroshkina O.N., Zagrebin M.A., Sokolovskiy V.V., Buchelnikov V.D.
- 4PO-K-20 **THE INFLUENCE OF FERRIMAGNETIC STRUCTURE ON MAGNETOCALORIC EFFECT IN $\text{Dy}_2\text{Fe}_{10}\text{Al}_7$ COMPOUND**
Smarzhetskaya A.I., Nikitin S.A., Pankratov N.Yu., Rogacki K., Koshkid'ko Yu.S., Cwik J., Karpenkov A.Yu., Karpenkov D.Yu., Pastushenkov Yu.G.
- 4PO-K-21 **THE MAGNETOCALORIC EFFECT IN SUBSTITUTED RCO_2 COMPOUNDS**
Chzhan V.B., Politova G.A., Tereshina I.S., Cwik J.
- 4PO-K-22 **TEMPERATURE DEPENDENCE OF $\text{La}(\text{Fe,Si})_{13}$ MAGNETOELASTIC PROPERTIES**
Karpenkov A. Yu., Karpenkov D.Yu., Radulov I.A., Skokov K.P., Gutfleisch O.
- 4PO-K-23 **INVESTIGATION OF STRUCTURAL AND MAGNETIC PROPERTIES OF Fe-Rh-(Z) (Z = Co, Pt) ALLOYS BY FIRST PRINCIPLES METHOD**
Pavlukhina O.O., Buchelnikov V.D., Sokolovskiy V.V., Zagrebin M.A.
- 4PO-K-24 **THE MAGNETOCALORIC EFFECT OF Gd – Co ALLOYS**
Drobosyuk M.O., Taskaev S.V., Fayzullin R.R., Buchelnikov V.D., Erager K.R.
- 4PO-K-25 **FERH-BASED COMPOSITE MATERIALS FOR ENHANCED MAGNETOCALORIC EFFECT**
Amirov A.A., Rodionov V.V., Rodionova V.V., Aliev A.A.

14:30-17:15**Oral Session****Spintronics and Magnetotransport****Chairperson: Vladimir GLUSHKOV**

4TL-A-5

14:30

**TOWARDS ALL-IN-ONE SPINTRONICS: MANIPULATING
ELECTRONIC PHASE SEPARATION IN COMPLEX OXIDES***Shen J.*

4TL-A-6

15:00

SPIN-TRANSFER DRIVEN DYNAMICS IN HYBRID STRUCTURES*Fowley C., Rode K., Gallardo R., Thiyagarajah N., Lau Yong-Chang, Borisov K.,
Betto D., Atcheson G., Kampert E., Wang Zh., Lindner J., Coey M.,
Stamenov P.S., Deac A.*

4TL-A-7

15:30

MAGNETIC SPIN HALL EFFECTS IN A CHIRAL ANTIFERROMAGNET*Otani Y., Kimata M., Kondou K., Muduli P., Nakatsuji S.*

4OR-A-8

16:00

**THE INFLUENCE OF “INJECTED” AND “THERMAL” MAGNONS ON A
SPIN WAVE CURRENT AND DRAG EFFECT IN HYBRID STRUCTURES***Lyapilin I.I., Okorokov M.S.*

4OR-A-9

16:15

**MAGNETIC PROPERTIES OF F/AF(TAF)/F TRILAYERS WITH LOW-NI
PERMALLOY FERROMAGNETIC LAYERS***Dzhun I.O., Babaytsev G.V., Chechenin N.G., Rodionova V.V., Gritsenko Ch.A.*

4TL-A-10

16:30

MgO, A MAGIC BARRIER FOR SPINTRONICS*Andrieu S., Hauet T., Montaigne F., Le Fèvre P., Bertran F.*

4RP-A-11

17:00

**MODELING OF THE SYSTEMS: JJ - NANOMAGNET: IV-
CHARACTERISTICS, MAGNETIC PRECESSION, MAGNETIC MOMENT
REVERSAL***Shukrinov Yu.M., Rahmonov I.R., Buzdin A., Sengupta K., Filatrella G.***14:30-17:00****Oral Session****Spintronics and Magnetotransport 2****Chairperson: Vyacheslav MARCHENKOV**

4OR-B-5

14:30

**PATTERN RECOGNITION WITH A NETWORK OF COUPLED SPIN
TORQUE OSCILLATORS***Talatchian P., Romera M., Abreu Araujo F., Tsunegi S., Kubota H., Yakushiji H.,
Fukushima A., Yuasa S., Bortolotti P., Cros V., Vodenicarevic D., Locatelli N.,
Querlioz D., Grollier J.*

4OR-B-6

14:45

**INTERACTION BETWEEN SPIN EXCITATIONS AND 2D ELECTRONS
IN INTERFACE LAYER IN YIG/GaAs-HETEROSTRUCTURE***Lutsev L.V., Stognij A.I., Novitskii N.N.*

- 4TL-B-7
15:00
INTERFACIAL DZYALOSHINSKII-MORIYA INTERACTION IN W/CoFeB/MgO FILMS TUNED BY VARIATION OF THE W THICKNESSES AND ANNEALING TEMPERATURES
Kim G.W., Kim Y.J., Cha I.H., Samardak A.S., Pal B., Kolesnikov A.G., Ognev A.V., Sadovnikov A.V., Nikitov S.A., Kim Yo.K.
- 4OR-B-8
15:30
THERMAL STABILITY VS CELL SIZE FOR IP STT-MRAM: THEORY AND EXPERIMENT
Belanovsky A.D., Mikhailov A.P., Trofimov A.V., Gapihan E., Aksenova E., Sorokina S., Lomakin V., Khvalkovskiy A.V.
- 4OR-B-9
15:45
ELECTRONIC AND MAGNETO-OPTICAL PROPERTIES OF ZnO:Co
Kulatov E.T., Novodvorsky O.A., Rylkov V.V., Gan'shina E.A., Shevyakov D.I., Tugushev V.V., Uspenskii Yu.A.
- 4OR-B-10
16:00
TOLERANCE OF IP AND PP MRAM TO EXTERNAL MAGNETIC FIELD
Mikhailov A.P., Belanovsky A.D., Leshchiner D.R., Lomakin V., Khvalkovskiy A.V.
- 4OR-B-11
16:15
SPIN-FILTER STATE OF AU-CO NANOWIRES
Smelova E.M., Tsysar K.M., Saletsky A.M.
- 4OR-B-12
16:30
EFFECT OF THE W CAPPING LAYER ON SPIN-ORBIT TORQUES IN Ru/Co/Ru FILMS
Stebliy M.E., Kolesnikov A.G., Ognev A.V., Samardak A.S., Chebotkevich L.A.
- 4OR-B-13
16:45
HYBRID ANISOTROPY [Co/Ni]₁₅/Cu/[Co/Pt]₄ SPIN-VALVES
Kolesnikov A.G., Stebliy M.E., Ognev A.V., Samardak A.S., Chebotkevich L.A., Hao Wu, Xiufeng Han

14:30-17:00

Oral Session**Magnetic Nanostructures and Low Dimensional Magnetism****Chairperson: Maksim SAPOZHNIKOV**

- 4OR-C-7
14:30
CORRELATION BETWEEN SURFACE MAGNETISM AND IR OPTICAL DATA IN Co-DOPED TiO₂ NANOPOWDERS
Mostovshchikova E.V., Yermakov A.Ye., Uimin M.A., Minin A.S.
- 4OR-C-8
14:45
MAGNETIC PROPERTIES OF IRON OXIDES IN CORE AND INTERFACE OF THE Fe₃O₄@Au NANOSTRUCTURES
Baskakov A.O., Starchikov S.S., Lyubutin I.S., Solov'eva A.Yu., Ioni Yu.V., Khodos I.I., Avilov A.S., Gubin S.P.
- 4OR-C-9
15:00
SPIN CURRENT IN NON-COLLINEAR MAGNETIC NANOSTRUCTURES: MAGNETOELECTRIC EFFECT AND SECOND HARMONIC GENERATION
Karashtin E.A., Gusev N.S., Kolmychek I.A., Sladkov K.D., Drovosekov A.B., Savitsky A.O., Murzina T.V., Fraerman A.A.

- 4OR-C-10 15:15 **INFLUENCE OF TUNGSTEN MODIFYING LAYER ON MAGNETIC PROPERTIES AND IDMI OF THE FILMS Ru/Co/W/Ru**
Kolesnikov A.G., Samardak A.S., Ognev A.V., Steblyy M.E., Chebotkevich L.A., Sadovnikov A.V., Nikitov S.A.
- 4OR-C-11 15:30 **TAILORING OF MAGNETIC PROPERTIES OF DEPOSITED Fe CHAINS BY EXTERNAL ELECTRIC FIELD IN THE PRESENCE OF H**
Korobova J.G., Bazhanov D.I.
- 4OR-C-12 15:45 **CRITICAL PHENOMENA IN 1D ISING MODEL WITH ARBITRARY SPIN**
Proshkin A.I., Kassan-Ogly F.A., Zarubin A.V., Ponomareva T.Y., Menshikh I.A.
- 4OR-C-13 16:00 **FERROMAGNETIC RESONANCE IN A CORE-SHELL NANOPARTICLE: A POLYCRYSTALLINE SHELL MODEL**
Poperechny I.S., Raikher Yu.L.
- 4OR-C-14 16:15 **IN SITU MAGNETO-OPTICAL ELLIPSOMETRY STUDY OF FERROMAGNETIC LAYERED NANOSTRUCTURES**
Maximova O.A., Lyaschenko S.A., Kosyrev N.N.
- 4OR-C-15 16:30 **MICROWAVE AND MAGNETO-OPTIC PROPERTIES OF ϵ -Fe₂O₃ NANOPARTICLES ARISING IN BORATE GLASSES DOPED WITH Fe AND Gd**
Ivanova O., Kliava J., Edelman I., Ivantsov R., Petrakovskaja E.
- 4OR-C-16 16:45 **EFFECTS OF ELECTRON-ELECTRON INTERACTION IN TWISTED BILAYER GRAPHENE**
Sboychakov A.O., Rozhkov A.V., Rakhmanov A.L., Nori F.

14:30-17:00

Oral Session

Magnetism and Superconductivity

Chairperson: Mikhail KUPRIYANOV

- 4TL-D-5 14:30 **STM INVESTIGATION OF TOPOLOGICAL SUPERCONDUCTIVITY IN SUPERCONDUCTING-FERROMAGNETIC HYBRID SYSTEMS**
Cren T., Ménard G.C., Guissart S., Brun C., Trif M., Debontridder F., Leriche R.T., Demaille D., Roditchev D., Simon P.
- 4RP-D-6 15:00 **RATCHET BASED ON SIFS JOSEPHSON ϕ JUNCTION.**
Goldobin E., Menditto R., Weides M., Kohlstedt H., Koelle D., Kleiner R.
- 4OR-D-7 15:15 **ORIGIN OF THE ROTATIONAL SYMMETRY BREAKING MAGNETIC RESPONSE IN THE TOPOLOGICAL SUPERCONDUCTOR Cu₂Bi₂Se₃**
Hakioğlu T., Denizhan E.O., Mehmet G.
- 4RP-D-8 15:30 **MAJORANA FERMIONS IN THE COEXISTENCE PHASE OF NONCOLLINEAR MAGNETIC ORDERING AND CHIRAL SUPERCONDUCTIVITY**
Val'kov V.V., Zlotnikov A.O., Shustin M.S.

4RP-D-9
15:45

RELATIVISTIC MOTT INSULATOR, SUPERCONDUCTIVITY, AND OTHER EXOTIC STATES IN TRANSITION METAL OXIDES WITH A LARGE SPIN-ORBIT COUPLING

Yunoki S.

4RP-D-10
16:00

QUASICLASSICAL THEORY OF SUPERCONDUCTING HETEROSTRUCTURES WITH STRONG INHOMOGENEOUS FERROMAGNETS

Bobkova I.V., Bobkov A.M., Silaev M.A.

4OR-D-11
16:15

PROXIMITY EFFECTS IN A HELICAL METAL BASED S/F HETEROSTRUCTURES

Bobkova I.V., Bobkov A.M.

4RP-D-12
16:30

METALLIC FINE CONTAMINANT DETECTION TECHNIQUE USING A SECOND HARMONIC RESPONSE

Tanaka S., Ohtani T., Kikuchi M.

14:30-16:30

Oral Session

Magnetism and Superconductivity 2

Chairperson: Ilya EREMIN

4OR-LT-5
14:30

DYNES SUPERCONDUCTORS - GAPLESS ULTRATHIN SUPERCONDUCTING FILMS

Hašková V., Szabó P., Žemlička M., Samuely T., Kačmarčík J., Lotnyk D., Komanický V., Grajcar M., Samuely P.

4TL-LT-6
14:45

A CONDUCTING FILAMENT NETWORK AS A PRECURSOR TO THE ORIGIN OF SUPERCONDUCTIVITY IN ELECTRON-DOPED COPPER OXIDES

Yu H., He G., Lin Z., Kusmartseva A., Yuan J., Zhu B., Yang Yi-feng, Xiang T., Li L., Wang J., Kusmartsev F.V., Kui Jin

4RP-LT-7
15:15

THE THEORY OF LONG-RANGE JOSEPHSON CURRENT THROUGH A SINGLE-CRYSTAL FERROMAGNET NANOWIRE

Proshin Yu.N., Avdeev M.V.

4OR-LT-8
15:30

INTERPLAY BETWEEN MAGNETISM AND SUPERCONDUCTIVITY IN METALLIC HYDROGEN AND HYDRIDES AT HIGH PRESSURES

Mazov L.S.

4OR-LT-9
15:45

INTERPLAY BETWEEN MAGNETIC AND SUPERCONDUCTING ORDERS IN LAYERED HTSC COMPOUNDS

Timirgazin M.A., Gilmutdinov V.F., Arzhnikov A.K.

4OR-LT-10
16:00

SUPERCONDUCTING MESA-STRUCTURES WITH A SPIN FILTERING MANGANITE INTERLAYER

Constantinian K.Y., Ovsyannikov G.A., Kislinskii Y.V., Demidov V.V., Shadrin A.V., Petrzhik A.M.

- 4OR-LT-11 **MAGNETOTRANSPORT PROPERTIES OF FeSe IN FIELDS UP TO 50 T**
 16:15 *Ovchenkov Y.A., Chareev D.A., Kulbachinskii V.A., Kytin V.G., Presnov D.E.,
 Skourski Y., Volkova O.S., Vasiliev A.N.*

14:30-17:00

Oral Session

Topological Insulators

Chairperson: Evgueni CHULKOV

- 4TL-E-4 **QUANTUM ANOMALOUS HALL CONDUCTIVITY IN 3D MAGNETIC
 TOPOLOGICAL INSULATOR/NORMAL INSULATOR
 HETEROSTRUCTURES**
 14:30 *Men'shov V.N., Tugushev V.V., Chulkov E.V.*
- 4TL-E-5 **PHOTO GALVANIC EFFECTS IN TOPOLOGICAL INSULATORS**
 15:00 *Tarasenko S.A.*
- 4TL-E-6 **MAGNETISM AND MAGNETOTRANSPORT IN TOPOLOGICAL
 INSULATOR Bi₂Se₃ DOPED WITH Eu**
 15:30 *Aronzon B.A., Oveshnikov L.N., Prudkoglyad V.A., Selivanov Yu.G.,
 Chizhevskii E.G.*
- 4TL-E-7 **PSEUDOMAGNETIC FIELDS EFFECTS IN DIRAC MATERIALS**
 16:00 *Lozovik Yu.E.*
- 4RP-E-8 **HIGHLY-ORDERED WIDE BANDGAP MATERIALS FOR QUANTIZED
 ANOMALOUS HALL AND MAGNETOELECTRIC EFFECTS**
 16:30 *Otrokov M.M., Menshchikova T.V., Vergniory M.G., Rusinov I.P.,
 Vyazovskaya A.Yu., Koroteev Yu.M., Bihlmayer G., Ernst A., Echenique P.M.,
 Arnau A., Chulkov E.V.*
- 4OR-E-9 **INVERSE SPIN HALL EFFECT IN HETEROSTRUCTURES
 "NANOSTRUCTURED FERROMAGNET / TOPOLOGICAL INSULATOR"**
 16:45 *Petrov P.N., Skirdkov P.N., Zvezdin K.A., Lin J.G., Huang J.C.A.*

14:30-17:00

Oral Session

Multiferroics

Chairperson: Alexander PYATAKOV

- 4TL-F-6 **MULTIPLE ORDER PARAMETERS AND THEIR CONTROL BY
 VARIOUS FIELDS IN SPIN-DRIVEN FERROELECTRICS**
 14:30 *Kimura T.*
- 4TL-F-7 **STRAIN-MEDIATED MULTIFERROIC MEMORY CELL
 N*(TbCo₂/FeCo)-PMN-PT**
 15:00 *Preobrazhensky V., Klimov A., Tiercelin N., Pernod P., Dusch Y., Giordano S.,
 Churbanov A., Sigov A., Nikitov S.*

4TL-F-8
15:30
**OBSERVATION OF THE MAGNETIC FIELD INDUCED
FERROELECTRICITY IN RARE-EARTH LANGASITES: Nd₃Ga₅SiO₁₄**
Mukhin A.A., Ivanov V.Yu., Mill B.V.

4OR-F-9
16:00
**TEMPERATURE CHARACTERISTICS OF THE NONLINEAR
MAGNETOELECTRIC EFFECT**
Burdin D.A., Chashin D.V., Ekonomov N.A., Fetisov Y.K.

4OR-F-10
16:15
**INVESTIGATION OF THE MAGNETOELECTRIC AND
MAGNETOELASTIC PROPERTIES OF OXIBORATES KHANTITE-TYPE
SINGLE CRYSTALS**
*Dubrovskiy A.A., Freydmann A.L., Balaev A.D., Eremin E.V., Gudim I.A.,
Temerov V.L.*

4OR-F-11
16:30
**MAGNETOCAPACITANCE AND HYSTERESIS OF ELECTRICAL
POLARIZATION IN GD_xMn_{1-x}Se**
Aplesnin S.S., Panasevich A.M., Sitnikov M.N., Khar'kov A.M.

4OR-F-12
16:45
**INFLUENCE OF MAGNETIC ORDER PARAMETER SYMMETRY AND
SPIN FLUCTUATIONS ON FORMING OF FERROELECTRIC ORDER IN
RMn₂O₅ OXIDES**
Men'shenin V.V.

14:30-17:00

Oral Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Elena KRAMARENKO

4RP-G-4
14:30
**VISCOELASTIC RESPONSE OF THE HYBRID
MAGNETORHEOLOGICAL ELASTOMERS**
Borin D.Yu., Stepanov G.V., Odenbach S.

4RP-G-5
14:45
LOW MAGNETIC FIELD RESPONSE OF FERRONEMATICS
*Kopčanský P., Tomašovičová N., Timko M., Gdovinová V., Majorošová J.,
Jadzyn J., Raikher Y., Éber N., Tóth-Katona T.*

4OR-G-6
15:00
**CYCLIC MOTION OF THE PARTICLES INSIDE A
MAGNETORHEOLOGICAL ELASTOMER: A STUDY WITH THE TWO-
PARTICLE ELEMENT**
Biller A.M., Stolbov O.V., Raikher Yu.L.

4OR-G-7
15:15
**MICROSTURAL INVESTIGATION OF MAGNETORHEOLOGICAL
ELASTOMERS (MRE)**
Gundermann Th., Odenbach S.

4RP-G-8
15:30
MAGNETIC FLUIDS FOR POWER TRANSFORMER APPLICATIONS
*Timko M., Rajnak M., Tobias T., Kurimsky J., Dolnik B., Cimbala R.,
Paulovicova K., Kopcansky P.*

- 4OR-G-9 **MAGNETICALLY INDUCED MOVEMENT OF NDFEB PARTICLES
IN MAGNETORHEOLOGICAL ELASTOMERS**

15:45

Schümann M., Odenbach S.

- 4OR-G-10 **MAGNETORHEOLOGICAL EFFECT OF MAGNETOACTIVE
ELASTOMER WITH A PERMALLOY FILLER. SYNTHESIS OF THE
PERMALLOY FILLER FOR THE MAGNETOACTIVE ELASTOMER**

16:00

Stepanov G.V., Bakhtiarov A.V., Borin D. Yu., Odenbach S., Storozhenko P.A.

- 4OR-G-11 **STRUCTURING OF MAGNETORHEOLOGICAL ELASTOMERS:
FIELD-DEPENDENT MAGNETOSTRICTION EFFECT**

16:15

Stolbov O.V., Raikher Yu.L.

- 4OR-G-12 **MODELING MAGNETO-SENSITIVE ELASTOMERS USING A DIPOLAR
MEAN FIELD APPROACH**

15:30

Romeis D., Saphiannikova M.

- 4OR-G-13 **DETERMINATION OF THE LOCAL ELASTICITY PARAMETERS IN
HYBRID MAGNETIC ELASTOMERS USING FORC DIAGRAMS**

16:45

*Vaganov M.V., Raikher Yu.L.***14:30-17:15****Oral Session****Diluted Magnetic Semiconductors and Oxides****Chairperson: Daniil KHOMSKII**

- 4TL-H-6 **TOPOLOGICAL VORTEX DOMAINS AT OXYGEN CAGE TILTING
PLETHORA**

14:30

Cheong S.-W.

- 4TL-H-7 **SIGNATURES OF THE FIELD-INDUCED SPIN-NEMATIC STATE IN THE
FRUSTRATED ANISOTROPIC SPIN-CHAIN COMPOUND LiCuSbO_4**

15:00

*Grafe H.-J., Nishimoto S., Iakovleva M., Vavilova E., Spillecke L., Alfonsov A.,
Sturza M.-I., Wurmehl S., Nojiri H., Rosner H., Richter J., Rößler U.,
Drechsler S.-L., Kataev V., Büchner B.*

- 4RP-H-8 **FRACTIONALIZED EXCITATIONS IN HIGHER DIMENSIONAL KITAEV
IRIDATES**

15:30

Lemmens P.

- 4RP-H-9 **FIRST OBSERVATION OF MAGNETOOPTICAL RESPONSE ON
TUNNEL MAGNETORESISTANCE IN MANGANITE FILMS WITH A
VARIANT STRUCTURE**

15:45

*Telegin A.V., Sukhorukov Yu.P., Bessonova V.A., Nosov A.P., Barsaume S.,
Gan'shina E.A.*

- 4OR-H-10 **SELF-DOPED $\text{Pr}_{1-x}\text{MnO}_{3+\delta}$ MANGANITES: RAMAN VACANCY MODES
AND GRIFFITHS-LIKE PHASE**

16:00

*Ulyanov A.N., Savilov S.V., Vasiliev A.V., Pismenova N.E., Sidorov A.V.,
Goodilin E.A.*

- 4OR-H-11
16:15
MAGNETIC-FIELD CONTROL OF SURFACE DOMAINS IN A WEAK FERROMAGNET YFeO_3
Andreeva N.V., Kalashnikova A.M., Balbashov A.M., Pisarev R.V., Vakhrushev S.B., Shvartsman V.V.
- 4RP-H-12
16:30
MAGNETO-ELECTRONIC PHASE SEPARATION ABOVE T_c IN $\text{Sm}_{0.32}\text{Pr}_{0.18}\text{Sr}_{0.5}\text{MnO}_3$ CMR MANGANITE WITH ISOVALENT DOPING
Ryzhov V.A., Kurbakov A.I., Runov V.V., Deriglazov V.V., Martin C., Maignan A.
- 4OR-H-13
16:45
CHARGE AND ORBITAL ORDER IN SODIUM COBALTATES Na_xCoO_2
Mukhamedshin I.R., Alloul H.
- 4OR-H-14
17:00
VALENCE DRIVEN ORDERING AND QUANTUM CRITICALITY IN $\text{Yb}_2\text{Pd}_2(\text{In}, \text{Sn})$
Khan T., Michor H., Giovannini M., Zlatic V., Khasanov R., Yamaoka A., Bauer E.

14:30-17:15

Oral Session**Magnetophotonics and Ultrafast Magnetism****Chairperson: Tatiana MURZINA**

- 4TL-O-5
14:30
ULTRAFAST EINSTEIN-DE HAAS EFFECT: A NEW LOOK INTO ULTRAFAST DEMAGNETISATION
Dornes C., Savoini M., Kubli M., Bothschafter E., Porer M., Vaz C.A.F., Zhu D., Song S., Glowina J.M., Lemke H., Beaud P., Staub U., Acremann Y., Johnson S.L.
- 4TL-O-6
15:00
MAGNETISATION MANIPULATION WITH LIGHT AND ELECTRONS FEMTO-SECOND PULSES: TOWARD ULTRAFAST SPINTRONIC
Deb M., Xu Y., El Hadri M.S., Bergeard N., Malinowski G., Hehn M., Mangin S.
- 4OR-O-7
15:30
SPATIAL AND TEMPORAL DYNAMICS OF THE LASER-INDUCED MAGNETIZATION REVERSAL IN $\text{Y}_3\text{Fe}_5\text{O}_{12}$
Prabhakara K.H., Davydova M.D., Zvezdin K.A., Shapaeva T.B., Wang S., Zvezdin A.K., Kirilyuk A., Rasing Th., Kimel A.V.
- 4OR-O-8
15:45
MECHANISM OF ULTRAFAST ALL-OPTICAL MAGNETIZATION SWITCHING IN IRON GARNETS
Davydova M.D., Zvezdin K.A., Zvezdin A.K.
- 4TL-O-9
16:00
SPIN EXCITATIONS IN A COMPLEX MULTISUBLATTICE ANTIFERROMAGNET $\text{Ni}_3(\text{BO}_3)_2$
Pisarev R.V., Prosnikov M.A., Davydov V.Yu., Smirnov A.N., Boldyrev K.N., Molchanova A.D., Popova M.N., Kamenskyi D., Pashkevich Yu.G., Zhuravlev A.V.
- 4RP-O-10
16:30
COUPLED ELECTRON-PHONON MODES IN AN ANTIFERROMAGNET SUBJECTED TO A MAGNETIC FIELD
Boldyrev K.N., Popova M.N.
- 4OR-O-11
16:45
THE ELECTRONIC AND MAGNETIC STRUCTURES OF MANGANESE DOPED COPPER METABORATE $\text{Cu}_{0.98}\text{Mn}_{0.02}\text{B}_2\text{O}_4$
Boldyrev K.N., Molchanova A.D., Moshkina E.M.

4OR-O-12
17:00

NEW MECHANISM OF MAGNETO-OPTIC EFFECT

Vedyayev A.V., Zhuravlev M.Ye., Lobachev A.V.

14:30-17:00

Oral Session

Theory

Chairperson: Arseny SYROMYATNIKOV

4RP-P-5
14:30

PHASE DIAGRAM OF THE $O(n)$ MODEL WITH DEFECTS OF "RANDOM LOCAL ANISOTROPY" TYPE

Berzin A.A., Morosov A.I., Sigov A.S.

4OR-P-6
14:45

FRUSTRATIONS AND PHASE TRANSITIONS IN MAGNETS OF VARIOUS DIMENSIONALITY

Kassan-Ogly F.A., Proshkin A.I.

4OR-P-7
15:00

MAGNETIC EXCITATIONS OF CARBON NANO-TUBES IN CHIRAL MODEL OF GRAPHENE

Rybakov Yu.P.

4OR-P-8
15:15

NON-MONOTONOUS MAGNETOCONDUCTANCE OF P-N JUNCTIONS IN WEYL SEMIMETALS

Saykin D.R., Tikhonov K.S., Rodionov Ya.I.

4OR-P-9
15:30

AN APPROXIMATE QUANTUM THEORY OF THE ANTIFERROMAGNETIC GROUND STATE

Orlova N.B., Kurkin M.I.

4OR-P-10
15:45

QUANTUM INVERSION DUE TO SUPEROSCILLATING FIELD

Doronin I.V., Pukhov A.A., Andrianov E.S., Vinogradov A.P., Lisyansky A.A.

4OR-P-11
16:00

ENERGY EXTRACTION FROM RESERVOIR IN OVERHAUSER EFFECT

Shishkov V.Yu., Andrianov E.S., Pukhov A.A., Vinogradov A.P., Lisyansky A.A.

4OR-P-12
16:15

HALF-METALLIC STATES IN DOPED SPIN-DENSITY WAVE INSULATOR

Rozhkov A.V., Rakhmanov A.L., Sboychakov A.O., Kugel K.I., Nori F.

4OR-P-13
16:30

TWO ORDER PARAMETERS THEORY OF METAL-INSULATOR PHASE TRANSITION IN MAGNETIC FIELD.

Dubovskii L.B.

4OR-P-14
16:45

SPIN-DEPENDENT TRANSPORT IN QUADRUPLE QUANTUM-DOT STRUCTURE TAKING INTO ACCOUNT COULOMB CORRELATIONS

Kagan M.Yu., Val'kov V.V., Aksenov S.V.

17:30-19:30

Poster Session

Diluted Magnetic Semiconductors and Oxides

Chairperson: Vladislav KATAEV

- 4PO-I1-25 **THE CORRELATION OF THE MAGNETIC AND STRUCTURAL PHASES
IN $\text{La}_{0.825}\text{Sr}_{0.175}\text{MnO}_3$ MANGANITE.**
Bulatov A.R., Bogdanova Kh.G.
- 4PO-I1-26 **STRUCTURE AND MAGNETIC PROPERTIES OF NI-POLY
(P-XYLYLENE) NANOCOMPOSITES**
Vdovichenko A.Yu., Oveshnikov L.N., Orechov A.S., Zavyalov S.A., Chvalun S.N.
- 4PO-I1-27 **MAGNETIC, DIELECTRIC AND THERMOELECTRIC PROPERTIES OF
 $\text{Bi}_2\text{Sn}_{1.9}\text{Cr}_{0.1}\text{O}_7$**
Udod L.V., Aplesnin S.S., Sitnikov M.N., Molokeev M.N., Yanushkevich K.I.
- 4PO-I1-28 **MAGNETIC PROPERTIES OF $\text{Pb}_{1-x}\text{Sn}_x\text{V}_y\text{Te}$ ALLOYS**
Skipetrov E.P., Konstantinov N.S., Skipetrova L.A., Knotko A.V., Slynko V.E.
- 4PO-I1-29 **STRAIN EFFECT ON RESISTIVITY OF MANGANITE THIN FILM.**
*Shaikhulov T.A., Shakhunov V.A., Demidov V.V., Ovsyannikov G.A., Andreev N.V.,
Pestun A.E., Sviridova T.A., Preobrazhensky V.L.*
- 4PO-I1-30 **CONDUCTIVITY, STRUCTURAL AND MAGNETIC PROPERTIES OF
MANGANESE CHALCOGENIDE FILMS UNDER ANIONIC
SUBSTITUTION BY TELLURIUM**
*Romanova O.B., Aplesnin S.S., Sitnikov M.N., Kharkov A.M., Demidenko O.F.,
Galyas A.I., Yanushkevich K.I.*
- 4PO-I1-31 **QUANTUM EFFECTS IN MAGNETOTRANSPORT OF InGaAs
QUANTUM WELLS WITH REMOTE Mn IMPURITIES**
Oveshnikov L.N., Morgun L.A., Nekhaeva E.I., Kulbachinskii V.A., Aronzon B.A.
- 4PO-I1-32 **THE COMPLEX NATURE OF THE MAGNETIC STATE OF
LANTHANUM MANGANITE UNDER CONDITION OF WEAK DOPING
WITH BISMUTH**
*Tarasenko T.N., Kravchenko Z.F., Burkhovetskiy V.V., Mazur A.S., Kamenev V.I.,
Linnik A.I.*
- 4PO-I1-33 **BAND STRUCTURE, MAGNETIC AND OPTICAL PROPERTIES OF
SEMICONDUCTING $\text{Al}_{0.75}\text{Cr}_{0.25}\text{N}$ SYSTEM: DFT+U MODELING**
Shein I.R., Bannikov V.V.
- 4PO-I1-34 **SPIN GLASS MAGNETIC BEHAVIOR IN $\text{GdFeTi}_2\text{O}_7$ COMPOUND**
Arauzo A., Bartolomé J., Drokina T.V., Petrakovskii G.A., Molokeev M.S.
- 4PO-I1-35 **EFFECT OF AGEING ON MAGNETIC AND ELECTRICAL PROPERTIES
OF Ti-SUBSTITUTED La-Sr MANGANITES**
Badelin A.G., Datskaya Z.R., Estemirova S.Kh., Karpasyuk V.K., Merkulov D.I.

- 4PO-I1-36 **LOW MAGNETIC FIELD INDUCED ANOMALIES IN THE ELASTIC MODULUS OF ZnSe CRYSTALS DOPED BY CROMIUM IONS**
Averkiev N.S., Bersuker I.B., Gudkov V.V., Zhevstovskikh I.V., Baryshnikov K.A., Sarychev M.N., Zherlitsyn S., Yasin S., Korostelin Yu.V.
- 4PO-I1-37 **DILUTED MAGNETIC SEMICONDUCTIORS InFeSb PREPARED BY LASER ABLATION: SPECTROSCOPIC AND MICROSCOPIC INVESTIGATIONS**
Gan'shina E.A., Golik L.L., Kun'kova Z.E., Zykov G.S., Rukovishnikov A.I., Temiryazeva M.P., Lesnikov V.P., Markin Yu.V.
- 4PO-I1-38 **MAGNETIC AND ELASTIC PROPERTIES OF $\text{La}_{0.82}\text{Ca}_{0.18}\text{MnO}_3$ SINGLE CRYSTAL**
Zainullina R.I., Bebenin N.G., Ustinov V.V., Shulyatev D.A.
- 4PO-I1-39 **DEPENDENCE OF THE STRUCTURAL AND MAGNETIC PROPERTIES OF THE LUDWIGITES $\text{Cu}_2\text{Mn}_{1-x}\text{Fe}_x\text{BO}_5$ ON THE IRON CONTENT**
Moshkina E.M., Platonov M.S., Seryotkin Yu.V., Bovina A.F., Eremin E.V., Bezmaternykh L.N.
- 4PO-I1-40 **STRUCTURAL PHASE TRANSITIONS IN MIXED CHROMIUM SPINELS: LOW TEMPERATURE NEUTRON DIFFRACTION STUDY**
Mikheykin A.S., Torgashev V.I., Razumnaya A.G., Bush A.A., Trochenko V.G.
- 4PO-I1-41 **SPECTRAL AND MAGNETIC PROPERTIES OF Na_2RuO_3 , Na_2RuO_4 AND Na_3RuO_4**
Gapontsev V.V., Qamar A., Moewes A., Kurmaev E.Z., Sathish C.I., Yun S., Park J.G., Streltsov S.V.
- 4PO-I1-42 **HIGH-TEMPERATURE FERROMAGNETISM OF THIN $\text{Zn}_{1-x}\text{Co}_x\text{O}_y$ FILMS, FABRICATED BY PULSED LASER DEPOSITION**
Lotin A.A., Novodvorsky O.A., Parshina L.S., Khramova O.D., Mikhalevsky V.A., Cherebilo E.A., Kuz'mina A.S., Shneider A.G., Perov N.S., Makarova L.A.
- 4PO-I1-43 **CORRELATION BETWEEN MAGNETOELASTIC PROPERTIES AND INFRARED MAGNETOREFLECTION IN SPINEL CoFe_2O_4**
Buchkevich A.A., Sukhorukov Yu.P., Telegin A.V., Nosov A.P., Bessonov V.D., Mostovshchikova E.V.
- 4PO-I1-44 **SYNTHESIS, CRYSTAL AND ELECTRONIC STRUCTURES, PHYSICAL PROPERTIES AND ^{121}Sb AND ^{151}Eu MÖSSBAUER SPECTROSCOPY OF THE ALUMO-ANTIMONIDE ZINTL PHASE $\text{Eu}_5\text{Al}_2\text{Sb}_6$**
Radzieowski M., Block Th., Fickenscher Th., Zhang Yu., Fokwa B.P.T., Janka O.
- 4PO-I1-45 **MAGNETIC ORDER-DISORDER TRANSITION IN THE FERROMAGNET PbMnBO_4 UNDER THE EXTERNAL MAGNETIC FIELD**
Pankrats A., Kolkov M., Popkov S., Sablina K., Balaev A., Miskiv A.
- 4PO-I1-46 **MAGNETOSTRICTION IN HEXAGONAL HoMnO_3 SINGLE CRYSTAL**
Pavlovskiy N., Dubrovskiy A., Shayhutdinov K., Terent'ev K.

17:30-19:30

Poster Session

Diluted Magnetic Semiconductors and Oxides 2

Chairperson: Liudmila GONCHAR

- AB-INITIO STUDY OF ELECTRONIC AND MAGNETO-OPTICAL PROPERTIES OF InAs:Mn**
4PO-I-26 *Kulatov E.T., Gan'shina E.A., Golik L.L., Kunkova Z.E., Zykov G.S., Yuan Ye., Zhou S.*
- MAGNETIC PROPERTIES OF $\text{Ln}_6\text{MoO}_{12-\delta}$ (Ln = Lu, Yb)**
4PO-I-27 *Denisova K., Volkova O., Vasiliev A., Shlyakhtina A.*
- MAGNETIC PROPERTIES OF Co-DOPED ZnO THIN FILMS**
4PO-I-28 *Kytin V.G., Maximova O.V., Kulbachinskii V.A., Burova L.I., Kaul A.R., Bandyopadhyay S., Ahmed A., Banerjee A.*
- EFFECT OF Ce-DOPING ON THE MAGNETIC AND STRUCTURE PROPERTIES OF MANGANITE $(\text{Ln}_{1-y}\text{Ce}_y)_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ (Ln=Pr, Nd)**
4PO-I-29 *Popov V.V., Melekh B.T.*
- NMR INVESTIGATION OF THE KAGOME COMPOUND $\text{YBaCo}_3\text{AlO}_7$**
4PO-I-30 *Vavilova E., Iakovleva M., Grafe H.-J., Valldor M., Büchner B., Kataev V.*
- INFLUENCE OF HIGH-TEMPERATURE ANNEALS ON MAGNETIC PROPERTIES OF NATURAL TITANOMAGNETITES**
4PO-I-31 *Maksimochkin V.I., Tselebrovskiy A.N., Grachev R.A.*
- STRONG LINEAR AND QUADRATIC MAGNETO-OPTICAL PHENOMENA IN FERROMAGNETIC EPITAXIAL FILMS EuO ON Si AND YSZ**
4PO-I-32 *Nefedov S.G., Kats V.N., Kalashnikova A.M., Usachev P.A., Pavlov V.V., Averyanov D.V., Parfenov O.E., Taldenkov N., Tokmachev A.N., Storchak V.G.*
- MAGNETISM OF AMORPHOUS CARBON**
4PO-I-33 *Komlev A.A., Lahderanta E., Shevchenko E.V., Vorob'ev-Desyatovskii N.V.*
- NMR INVESTIGATION OF IR-BASED DOUBLE PEROVSKITES**
4PO-I-34 *Iakovleva M.F., Vavilova E.L., Grafe H.-J., Kataev V.E., Kaustuv M., Vogl M., Dey T., Wurmehl S., Büchner B.*
- CRYSTAL GROWTH AND TRANSPORT PROPERTIES OF SODIUM COBALTATES Na_xCoO_2**
4PO-I-35 *Gilmudtinov I.F., Mukhamedshin I.R., Alloul H.*
- MAGNETIC FIELD INDUCED GRIFFITHS PHASE IN $\text{Mn}_{1-x}\text{Fe}_x\text{Si}$ SOLID SOLUTIONS**
4PO-I-36 *Samarin A.N., Huang J., Vanacken J., Demishev S.V., Grigoriev S.V.*
- CORRELATION BETWEEN THE SPIN-GLASS CONCENTRATION AND MAGNETORESISTANCE IN $\text{La}_{0.54}\text{Ho}_{0.11}\text{Sr}_{0.35}\text{Mn}_{1-x}(\text{Cr/Co})_x\text{O}_3$**
4PO-I-37 *Erhan R.V., Craus M.-L., Cornei N., Mita C., Dobrea V., Turchenko V.*

- 4PO-I-38 **ELECTRICAL SPIN INJECTION IN InFeSb/GaAs FERROMAGNETIC HETEROSTRUCTURES**
Dorokhin M.V., Lesnikov V.P., Kudrin A.V., Demina P.B., Danilov Yu.A., Ved' M.V., Zdoroveyshchev A.V.
- 4PO-I-39 **THE INVESTIGATION OF CRYSTAL AND MAGNETIC STRUCTURES OF SOLID SOLUTIONS $\text{BaFe}_{12-x}\text{D}_x\text{O}_{19}$ (D= In AND Ga; $x= 0.1 - 1.2$)**
Turchenko V.A., Trukhanov A.V., Trukhanov S.V., Kazakevich I.S.
- 4PO-I-40 **MAGNETOTRANSPORT PROPERTIES OF InSb-MnSb NANOSTRUCTURED FILMS**
Kochura A.V., Marenkin S.F., Novodvorsky O.A., Mikhalevsky V.A., Shakhov M.A., Lahderanta E., Zakhvalinskii V.S., Kuzmenko A.P.
- 4PO-I-41 **NMR AND MÖSSBAUER SPECTROSCOPY STUDY OF BINARY HELIMAGNET FeP**
Gippius A.A., Zhurenko S.V., Sobolev A.V., Presniakov I.A., Chernyavskii I.V., Schaedler M., Buettgen N., Morozov I.V., Shevelkov A.V., Moskvina A.S.
- 4PO-I-42 **NMR STUDY OF INHOMOGENEOUS MAGNETIC STATE IN ELECTRON DOPED CUBIC MANGANITES**
Mikhalev K.N., Germov A.Yu., Verkhovskii S.V., Volkova Z.N., Gerashenko A.P., Korolev A.V., Konstantinova E.I., Leonidov I.A., Yakubovskii A.Yu., Trokiner A., Dabrovski B.
- 4PO-I-43 **FERROMAGNETISM OF INDIUM ANTIMONIDE, HIGHLY DOPED BY IRON**
Kudrin A.V., Danilov Yu.A., Lesnikov V.P., Vikhrova O.V., Pavlov D.A., Usov Yu.V., Pitirimova E.A., Antonov I.N., Krukov R.N.
- 4PO-I-44 **MAGNETIC AND MAGNETO-TRANSPORT PROPERTIES OF CRYSTALLOGRAPHICALLY ALIGNED CuCr_2Se_4 THIN FILMS**
Edelman I., Esters M., Ivantsov R., Yurkin G., Johnson D.C., Tarasov A.
- 4PO-I-45 **STATIC AND TIME-RESOLVED MID-INFRARED SPECTROSCOPY OF $\text{Hg}_{0.95}\text{Cd}_{0.05}\text{Cr}_2\text{Se}_4$ SPINEL**
Barsaume S., Telegin A.V., Sukhorukov Yu.P., Stavrias N., Fedorov V.A., Menshchikova T.K., Kimel A.V.
- 4PO-I-46 **THE OSCILLATIONS IN ESR SPECTRA OF $\text{Mn}_x\text{Hg}_{1-x}\text{Te}$ IN X- AND Q-BANDS**
Shestakov A.V., Fazlizhanov I.I., Yatsyk I.V., Ibragimova M.I., Eremina R.M.
- 4PO-I-47 **^{27}Al NMR SPECTROSCOPY STUDY OF FRUSTRATED SPINEL COMPOUND FeAl_2O_4**
Gippius A.A., Harikrishnan S.N., Strydom A.M., Baenitz M.
- 4PO-I-48 **EFFECT OF CATION ORDERING ON A-SITES ON THE PHYSICAL PROPERTIES OF SUBSTITUTED RARE-EARTH COBALTITE OXIDES $\text{Gd}_{1-x}\text{Sr}_x\text{CoO}_{3-\Delta}$**
Dudnikov V.A., Orlov Yu.S., Gavrilkin S.Yu., Kazak N.V., Platunov M.S., Solovyov L.A., Vereshchagin S.N., Velikanov D.A., Ovchinnikov S.G.

- 4PO-I-49 **EFFECT OF OXYGEN NONSTOICHIOMETRY ON MAGNETIC PHASE TRANSITIONS IN FRUSTRATED COBALTITES**
YBaCo₄O_{7+x} (x = 0.0, 0.1, 0.2)
Kazei Z.A., Snegirev V.V., Kozeeva L.P., Kameneva M. Yu., Lavrov A.N.

17:30-19:30

Poster Session

Multiferroics

Chairperson: Dmitry BURDIN

- 4PO-J-25 **PHASE TRANSITIONS AND FEATURES OF SURFACE PROPERTIES IN MULTILAYER MAGNETIC NANOFILMS**
Valieva L.R., Sharafullin I.F.
- 4PO-J-26 **MAGNETOELECTRIC EFFECTS IN FERRITE GARNET FILMS**
Gareeva Z.V., Mazhitova F.A., Doroshenko R.A., Popov A.I.
- 4PO-J-27 **MAGNETIC PROPERTIES OF NdSc₃(BO₃)₄**
Gudim I.A., Eremin E.V., Temerov V.L.
- 4PO-J-28 **MAGNETOELECTRIC EFFECTS IN MULTIFERROICS OF COMPOSITIONALLY-STEPPED LEAD-FREE PIEZOELECTRIC AND MAGNETOSTRICTIVE COMPONENTS**
Petrov V.M., Kovalenko D.V., Bichurin M.I.
- 4PO-J-29 **MAGNETOELECTRIC EFFECT IN THE YIG/PZT FMR RANGE**
Lobekin V.N., Petrov V.M., Tatarenko A.S., Bichurin M.I.
- 4PO-J-30 **MAGNETOELECTRIC PHENOMENA IN Fe LANGASITES**
Ivanov V.Yu., Mukhin A.A., Kuzmenko A.M., Popov Yu.F., Vorob'ev G.P., Tikhanovskii A.Yu., Balbashov A.M.
- 4PO-J-31 **INFLUENCE OF NON-UNIFORM ELECTRIC FIELD ON THE STRUCTURE AND PROPERTIES OF MAGNETIC INHOMOGENEITIES IN UNIAXIAL MULTIFERROIC FILMS**
Vakhitov R.M., Solonetsky R.V., Mazhitova F.A., Gareeva Z.V.
- 4PO-J-32 **MAGNETIC FIELD-INDUCED TRANSITIONS AND FULL H-T PHASE DIAGRAMS IN MULTIFERROICS Mn_{0.95}Co_{0.05}WO₄ AND Mn_{0.8}Co_{0.2}WO₄**
Ivanov V.Yu., Mukhin A.A., Popov Yu.F., Vorob'ev G.P., Balbashov A.M., Skourski Yu., Wang Zh., Skumryev V.
- 4PO-J-33 **TERAHERTZ OPTICAL ACTIVITY AT CRYSTAL FIELD TRANSITIONS IN Tm³⁺ IONS IN MAGNETOELECTRIC ALUMOBORATES**
Kuzmenko A.M., Mukhin A.A., Ivanov V.Yu., Shuvaev A., Dziom V., Pimenov A., Boldyrev K.N., Bezmaternykh L.N., Gudim I.A.
- 4PO-J-34 **MÖSSBAUER STUDY OF MULTIFERROICS BiFe_{1-x}Mn_xO₃ (x = 0.05, 0.10, 0.25)**
Rusakov V.S., Pokatilov V.S., Sigov A.S., Belik A.A., Matsnev M.E., Gapochka A.M., Kulakov K.V.

- 4PO-J-35 **TEMPERATURE MÖSSBAUER STUDY OF THE SPATIAL SPIN-MODULATED STRUCTURE IN THE MULTIFERROIC BiFeO_3**
Rusakov V.S., Pokatilov V.S., Sigov A.S., Matsnev M.E., Pyatakov A.P.
- 4PO-J-36 **AN IMMENSE IMPACT OF TENSILE/COMPRESSIVE STRAIN ON THE FUNCTIONAL PROPERTIES OF FERROELECTRIC/FERROMAGNETIC STRUCTURE**
Ivanov M.S., Khomchenko V.A., Buryakov A.M., Mishina E.D., Paixão J.A.
- 4PO-J-37 **DUAL TUNABILITY OF SPIN-ELECTROMAGNETIC WAVES IN ALL-THIN-FILM MULTIFERROIC MULTILAYERS**
Vitko V.V., Nikitin A.I., Nikitin A.A., Kondrashov A.V., Ustinov A.B., Semenov A.A., Lähderanta E.
- 4PO-J-38 **SLOT LINE EXCITATION OF SPIN WAVES IN BiFeO_3 MULTIFERROIC FILM**
Korneev V.I., Solov'yov S.V.
- 4PO-J-39 **CONVERSE MAGNETOELECTRIC EFFECT IN METGLAS - PZT LAYERED COMPOSITE STRUCTURES**
Fetisov L.Y., Chashin D.V., Saveliev D.V., Plekhanova D.D., Shalygina E.E., Efremova S.L.
- 4PO-J-40 **MAGNETIC PHASES AND DOMAIN WALLS OF DIFFERENT TOPOLOGY IN THE (210) - ORIENTED FERRITE-GRANATE FILM**
Vakhitov R.M., Yumaguzin A.R., Solonetsky R.V., Iskhakova R.R.
- 4PO-J-41 **MAGNETIC INHOMOGENEITIES APPEARED ON SECLUDED DEFECTS OF THROUGH TYPE IN MAGNETIC UNIAXIAL FILMS**
Vakhitov R.M., Solonetsky R.V., Akhmetova A.A.
- 4PO-J-42 **MAGNETIC AND STRUCTURAL PROPERTIES OF THE $\text{NdFe}_3(\text{BO}_3)_4$ AND $\text{SmFe}_3(\text{BO}_3)_4$ MULTIFERROICS STUDIED WITH MÖSSBAUER SPECTROSCOPY**
Frolov K.V., Lyubutin I.S., Smirnova E.S., Alekseeva O.A., Bezmaternykh L.N., Gudim I.A.
- 4PO-J-43 **INVESTIGATION THE MAGNETOELASTIC EFFECT OF PERMALLOY STRUCTURES ON PVDF SUBSTRATE INDUCED BY HEATING**
Bukharaev A.A., Bizyaev D.A., Chirkov V.V., Chuklanov A.P., Khanipov T.F., Nurgazizov N.I., Ziganshina S.A.
- 4PO-J-44 **MAGNETIC PROPERTIES OF SINGLE CRYSTALS $\text{HoFe}_{3-x}\text{Ga}_x(\text{BO}_3)_4$**
Eremin E.V., Volkov N.V., Gudim I.A., Temerov V.L.
- 4PO-J-45 **CHARGE ORDER AND ELECTRONIC STRUCTURE OF LuFe_2O_4 AT AMBIENT AND HIGH PRESSURE**
Maslov D.A., Kudasov Yu.B., Korshunov A.S., Surdin O.M., Platonov V.V.
- 4PO-J-46 **MAGNETOPIEZOELECTRIC EFFECTS IN EASY PLANE FERROBORATES**
Bilych I.V., Zhekov K.R., Gaydamak T.N., Burma N.G., Kolodyazhnaya M.P., Zvyagina G. A., Fil' V.D., Gudim I.A.

- 4PO-J-47 **NMR STUDY OF MULTIFERROIC CuCrO_2**
*Smolnikov A.G., Ogloblichev V.V., Verkhovskii S.V., Mikhalev K.N., Sadykov A.F.,
 Piskunov Yu.V., Gerashenko A.P., Yakubovskii A.Yu.*

17:30-19:30

Poster Session

Theory

Chairperson: Anatoly ARZHNIKOV

- 4PO-K-26 **PHOSPHORUS-CONTAINING BRIDGING LIGANDS FOR DESIGN OF
MOLECULAR MAGNETS**

Gavrilova T.P., Gerasimova T.P., Katsyuba S.A.

- 4PO-K-27 **INVESTIGATION OF PHASE TRANSITIONS AND CRITICAL
PHENOMENA IN MODELS OF MULTILAYER SYSTEMS**

Khizriev K.Sh.

- 4PO-K-28 **THE QUANTUM OSCILLATIONS IN SEMICONDUCTORS WITH
INVERTED BAND STRUCTURES**

Alisultanov Z.Z., Abdullaev G.O.

- 4PO-K-29 **TWO METHODS FOR CONTROLLING PSEUDOMAGNETIZATION IN
THE MONTE-CARLO SIMULATION OF SPIN-PSEUDOSPIN SYSTEMS**

Chikov A., Panov Yu., Budrin K., Rybakov F.

- 4PO-K-30 **MAGNETIC PHASE SEPARATION DEPENDING ON ATOMIC
DISORDER IN THE ANDERSON-HUBBARD MODEL**

Arzhnikov A.K., Groshev A.G.

- 4PO-K-31 **FRUSTRATED HEISENBERG ANTIFERROMAGNETS ON CUBIC
LATTICES: MAGNETIC STRUCTURES, EXCHANGE GAPS, AND
PHASE TRANSITIONS**

Ignatenko A.N., Irkhin V.Yu.

- 4PO-K-32 **AN ESSENTIALLY GEOMETRICALLY FRUSTRATED MAGNETIC
SYSTEM: AN EXACT SOLUTION FOR THE SPIN LIQUID STATE**

Andrianov A.Vl.

- 4PO-K-33 **NON-EQUILIBRIUM CRITICAL BEHAVIOR OF HEISENBERG THIN
FILMS**

Shlyakhtich M.A., Prudnikov P.V.

- CURRENT-DRIVEN QUANTUM DYNAMICS OF TOROIDAL MOMENT**

- 4PO-K-34 **IN RARE-EARTH NANOCLUSTERS**

Plokhov D.I., Popov A.I., Zvezdin A.K.

- 4PO-K-35 **AN APPROXIMATE QUANTUM THEORY OF THE
ANTIFERROMAGNETIC GROUND STATE**

Orlova N.B., Kurkin M.I.

- 4PO-K-36 **SPIN NEMATIC WITH $S = 2$**
Kosmachev O.A., Fridman Yu.A., Ivanov B.A.
- 4PO-K-37 **GROUND STATE OF THE CLASSICAL FRUSTRATED HEISENBERG
FERROMAGNET IN A MAGNETIC FIELD**
Martynov S.N.
- 4PO-K-38 **RELATIONSHIP BETWEEN SUPERCONDUCTING ORDER
PARAMETER SYMMETRY, TEMPERATURE AND NEXT-NEAREST
NEIGHBOR HOPPING**
Gilmutdinov V.F., Timirgazin M.A., Arzhnikov A.K.
- 4PO-K-39 **ELECTRONIC PROPERTIES OF SIMPLE HEXAGONAL GRAPHITE**
Mosoyan K.S., Rozhkov A.V., Sboyshakov A.O., Rakhmanov A.L.
- 4PO-K-40 **PHASE TRANSITIONS AND CRITICAL PHENOMENA IN FRUSTRATED
ISING MODEL ON A CUBIC LATTICE WITH NEXT-NEAREST-
NEIGHBOR INTERACTIONS**
Murtazaev A.K., Ramazanov M.K.
- 4PO-K-41 **COOPERATIVE PHENOMENA IN SPIN CROSSOVER SYSTEMS**
Nesterov A.I., Orlov Yu.S., Ovchinnikov S.G., Nikolaev S.V.
- 4PO-K-42 **THE MONTE-CARLO INVESTIGATION OF PHASE TRANSITIONS
IN THE ANTIFERROMAGNETIC POTTS MODEL ON FCC LATTICE**
Babaev A.B., Murtazaev A.K.
- 4PO-K-43 **UNCONVENTIONAL PHASE SEPARATION IN THE MODEL 2D
SPIN-PSEUDOSPIN SYSTEM**
Budrin K.S., Panov Yu.D., Moskvina A.S., Chikov A.A.

5 July, Wednesday

9:30-11:00

Plenary Lectures

Chairperson: Alexey KIMEL

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|------------------|---|
| 5PL-A-1
9:30 | MAGNETIC GARNETS FOR SPINTRONIC AND MAGNETOOPTICAL DEVICES
<i>Ross C.A.</i> |
| 5PL-A-2
10:15 | CURRENT PROGRESSES IN UNDERSTANDINGS OF COERCIVITY FOR DEVELOPING NEXT GENERATION HIGH-PERFORMANCE PERMANENT MAGNETS
<i>Hirosawa S.</i> |

11:30-12:45

Oral Session

Spintronics and Magnetotransport

Chairperson: Leonid LUTSEV

- | | |
|------------------|---|
| 5OR-A-1
11:30 | MICROSCOPIC THEORY OF MAGNETIZATION DYNAMICS IN RASHBA SYSTEMS
<i>Ado I.A., Titov M.</i> |
| 5OR-A-2
11:45 | NON-LOCAL GILBERT DAMPING WITHIN THE TORQUE-TORQUE CORRELATION MODEL
<i>Thonig D., Kvashnin Y., Pereiro M., Eriksson O.</i> |
| 5OR-A-3
12:00 | STABILITY PHASE DIAGRAM OF PERPENDICULAR MAGNETIC TUNNEL JUNCTION IN NON-COLLINEAR GEOMETRY
<i>Strelkov N., Timopheev A., Sousa R.C., Chshiev M., Buda-Prejbeanu L.D., Dieny B.</i> |
| 5OR-A-4
12:15 | MICROMAGNETIC DYNAMICS OF VORTEX SPIN-TORQUE DIODE: THE IMPACT OF DC BIAS
<i>Skirdkov P.N., Zvezdin K.A., Zvezdin A.K.</i> |
| 5OR-A-5
12:30 | SPIN PUMPING VIA BULK ACOUSTIC WAVE MODES IN COMPOSITE RESONATOR WITH YIG/PT BILAYER
<i>Polzikova N.I., Alekseev S.G., Pyataikin I.I., Kotelyanskii I.M., Luzanov V.A., Raevskiy A.O.</i> |

11:30-13:00

Oral Session

Soft and Hard Magnetic Materials

Chairperson: Nikolay BEBENIN

- 5TL-B-1
11:30
SOFT MAGNETIC MATERIALS FOR SENSOR APPLICATIONS IN A HIGH FREQUENCY RANGE
Kurlyandskaya G.V., Shcherbinin S.V., Volchkov S.O., Bhagat S.M., Calle E., Pérez R., Vazquez M.
- 5OR-B-2
12:00
INFLUENCE OF REVERSIBLE ADSORPTION ON MAGNETIC SUSCEPTIBILITY OF IRON BORATE
Zubov V.E., Kudakov A.D., Levshin N.L., Belov I.A., Strugatsky M.B.
- 5RP-B-3
12:15
Co₃(Al,W) INTERMETALLIC COMPOUND: FROM SOFT TO HARD FERROMAGNETS
Kazantseva N., Davidov D., Shishkin D., Terentev P., Vinogradova N., Kabanov Yu.
- 5OR-B-4
12:30
MAGNETIC PHASE DIAGRAMS OF GD-H, TB-H, DY-H SYSTEMS
Chzhan V.B., Tereshina I.S., Burkhanov G.S., Politova G.A., Drulis H.
- 5OR-B-5
12:45
MAGNETIC DOMAIN STRUCTURE OF RE-3D INTERMETALLICS WITH EASY PLANE AND EASY CONE ANISOTROPY
Pastushenkov Yu.G., Skokov K.P., Lahova M.B., Semenova E.M., Denisov F.O.

11:30-13:30

Oral Session

Magnetophotonics and Ultrafast Magnetism

Chairperson: Alexey KIMEL

- 5TL-C-1
11:30
ULTRAFAST MAGNETISM AND THZ SPINTRONICS
Münzenberg M.
- 5TL-C-2
12:00
MULTISCALE DYNAMICS OF HELICITY-DEPENDENT ALL-OPTICAL SWITCHING IN FERROMAGNETIC NANOSTRUCTURES
Medapalli R., Afanasiev D., Kim D.K., Quessab Y., Manna S., Montoya S.A., Kirilyuk A., Rasing Th., Kimel A.V., Fullerton E.E.
- 5TL-C-3
12:30
MANIPULATING MAGNETIZATION WITH PULSES OF LIGHT
Eisebitt S.

11:30-13:00

Oral Session

Magnetism and Superconductivity

Chairperson: Gavin BURNELL

- 5TL-D-1
11:30
SPECTROSCOPY OF CORRELATED ELECTRONIC STATES IN SINGLE CRYSTALS OF Cu_xTiSe₂
Karapetrov G., Lioi D.B., Schaller R.D., Gosztola D.J., Wiederrecht G.P.
- 5TL-D-2
12:00
SCANNING TUNNELING SPECTROSCOPY AS A PROBE OF MULTI-Q MAGNETIC STATES OF ITINERANT MAGNETS
Eremin I., Gastiasoro M.N., Fernandes R.M., Andersen B.M.

5RP-D-3
12:30

HARD SUPERCONDUCTING GAP in INDIUM GALLIUM ARSENIDE QUANTUM WELLS

Delfanazari K., Puddy R.K., Ma P., Yi T., Cao M., Gul Y., Farrer I., Ritchie D.A., Joyce H.J., Kelly M.J., Smith C.G.

5RP-D-4
12:45

FLUCTUATIONS OF NEMATICITY AND THE SPIN SUBSYSTEM IN FeSe AND FeSeS

Lin J.-Y., Luo C.W., Cheng P.C., Wang S.-H., Yao S.-Yu, Chiang J.-C., Wu K.-H., Juang J.-Y., Chareev D.A., Volkova O.S., Vasiliev A.N.

11:30-13:00

Oral Session

Skymions

Chairperson: Oleg TRETIAKOV

5TL-E-1
11:30

ULTRAFAST MAGNETIZATION DYNAMICS IN SKYRMIONIC MATTER

Versteeg R., Padmanabhan P., Boguschewski C., Slivina E., Bordács S., Kézsmárki I., Becker P., Aqeel A., Palstra T.T.M., Grüninger M., van Loosdrecht P.H.M.

5RP-E-2
12:00

MAGNETIC SKYRMIONS IN NANOSTRUCTURES

Sapozhnikov M.V., Vdovichev S.N., Ermolaeva O.L., Gusev N.S., Fraerman A.A., Gusev S.A., Petrov Yu.V.

5OR-E-3
12:15

CHIRAL HALL EFFECT IN VARIOUS REGIMES

Denisov K.S., Rozhansky I.V., Averkiev N.S., Lahderanta E.

5RP-E-4
12:30

TWO STATES OF SKYRMION LATTICE IN CHIRAL MAGNET MnSi

Glushkov V.V., Lobanova I.I., Sluchanko N.E., Demishev S.V.

5OR-E-5
12:45

DYNAMICAL AND REVERSIBLE CONTROL OF TOPOLOGICAL SPIN TEXTURES

Stepanov E.A., Dutreix C., Katsnelson M.I.

11:30-13:00

Oral Session

Diluted Magnetic Semiconductors and Oxides

Chairperson: Kliment KUGEL

5TL-F-1
11:30

FeO₂: POSSIBLE NOVEL MAGNETIC CONSTITUENT OF EARTH'S LOWER MANTLE

Streltsov S.V., Shorikov A.O., Skorniyakov S.L., Poteryaev A.I., Khomskii D.I.

5OR-F-2
12:00

NON-EQUILIBRIUM THERMODYNAMICS OF MAGNETIC SEMICONDUCTOR

Bebenin N.G., Lyapilin I.I.

5RP-F-3 **EFFECT OF MAGNETIC FIELD ON THE SYSTEMS WITH IMPERFECT
NESTING**

12:15

Rakhmanov A.L., Kugel K.I., Rozhkov A.V., Sboychakov A.O., Nori F.

5OR-F-4 **MAGNETO-OPTICAL SPECTROSCOPY OF DILLUTED MAGNETIC
SEMICONDUCTIONS GaMnAs PREPARED BY ION IMPLANTATION
AND FUTHER PULSE LASER ANNEALING**

12:30

*Gan'shina E.A., Golik L.L., Kun'kova Z.E., Zykov G.S., Bykov I.V.,
Rukovishnikov A.I., Yuan Ye., Zhou S.*

5RP-F-5 **ATOMIC-SCALE ENGINEERING OF THE FERROMAGNETIC
SEMICONDUCTOR/SILICON INTERFACE**

12:45

Averyanov D.V., Karateev I.A., Tokmachev A.M., Storchak V.G.

11:30-13:00

Oral Session

Magnetic Soft Matter (magnetic polymers, fluids and suspensions)

Chairperson: Andrejs CEBERS

5TL-G-1 **CAPTURE OF MAGNETIC NANOPARTICLES ON ORDERED
MAGNETIZABLE ARRAYS: A PARAMETRIC STUDY**

11:30

Ezzaier H., Alves Marins J., Schaub S., Amara B.H., Kuzhir P.

5TL-G-2 **MAGNETIC RESPONSE OF A JEFFREYS FERROSUSPENSION**

12:00

Rusakov V.V., Raikher Yu.L.

5OR-G-3 **MAGNETIC MICROGELS IN COMPUTER SIMULATIONS**

12:30

Minina E.S., Likos C., Kantorovich S.S.

5OR-G-4 **ON THE ELASTIC PROPERTIES OF MAGNETIC ELASTOMERS BY
MEANS OF STRUCTURAL METHODS**

12:45

*BalasoIU M., Rogachev A.V., Iacobescu G., Turchenko V., Ivankov O.,
Soloviov D., BunoIU M., Bica I., Raikher Yu.L.*

11:30-13:00

Oral Session

Multiferroics

Chairperson: Holger MEYERHEIM

5TL-H-1 **ELECTRIC-FIELD CONTROL OF MAGNETISM IN MULTIFERROIC
HETEROSTRUCTURES**

11:30

van Dijken S.

5OR-H-2 **INVERSE EFFECT OF MAGNETOSTRICTION IN MAGNETOELECTRIC
LAYERED STRUCTURES**

12:00

Zadov B., Liverts E., Auslender M.

- 5OR-H-3
12:15
- SUPPRESSION OF THE NONLINEAR MAGNETOELECTRIC EFFECT
HYSTERESIS IN A LAYERED FERROMAGNETIC-PIEZOELECTRIC
COMPOSITE**

Burdin D.A., Chashin D.V., Ekonomov N.A., Fetisov L.Y., Fetisov Y.K.

- 5OR-H-4
12:30
- MAGNETOELECTRIC EFFECT IN FERROMAGNETIC-
SEMICONDUCTOR LAYERED COMPOSITE STRUCTURES**

Fetisov L.Y., Chashin D.V., Saveliev D.V., Plekhanova D.D., Stognij A.I.

- 5OR-H-5
12:45
- NEW COMPOSITE MULTIFERROIC MATERIALS CONSISTED OF
FERROMAGNETIC AND FERROELECTRIC PARTICLES EMBEDDED IN
ELASTIC MATRIX**

*Makarova L.A., Alekhina Yu.A., Kramarenko E.Yu., Omelyanchik A.S.,
Rodionova V.V., Perov N.S., Malysheva O.V.*

11:30-13:00

Oral Session

Magnetic Nanostructures and Low Dimensional Magnetism

Chairperson: Nikolai USOV

- 5RP-O-1
11:30
- TOWARD HIGH-TEMPERATURE SINGLE-MOLECULE MAGNETS:
PRINCIPLES AND APPROACHES**

Mironov V.S.

- 5OR-O-2
11:45
- MAGNETIC PHASE CHANGE MEMORY BY LASER HEATING**

*Bali R., Polushkin N.I., Ehrler J., Wintz S., Liersch V., Cornelius S., Potzger K.,
Lindner J., Fassbender J., Ünal A., Valencia S., Kronast F., Shugaev M.V., He M.,
Zhigilei L.V.*

- 5OR-O-3
12:00
- MAGNETIC TWIST STATES AND INHOMOGENEOUS RESONANCE
MODES IN FE/GD AND FE/CR/GD LAYERED STRUCTURES**

*Drovosekov A.B., Kholin D.I., Kreines N.M., Savitsky A.O., Kravtsov E.A.,
Ryabukhina M.V., Proglyado V.V., Ustinov V.V.*

- 5OR-O-4
12:15
- FRACTAL CLUSTER OF MAGNETIC NANOPARTICLES:
DIMENSIONALITY EFFECT TO MAGNETIZATION CURVES**

Komogortsev S.V., Felk V.A., Iskhakov R.S.

- 5OR-O-5
12:30
- NOVEL MAGNETIC NANOSTRUCTURES: IRON-CONTAINING
DENDRIMERS WITH THERMO- AND PHOTOCONTROLLED
MAGNETIC PROPERTIES**

Domracheva N.E., Vorobeva V.E., Pyataev A.V., Gruzdev M.S.

- 5OR-O-6
12:45
- EFFECT OF MAGNETIC STRUCTURE OF MAGNETIC
NANOPARTICLES AND ITS DIPOLAR INTERACTION ON NONLINEAR
MAGNETISATION DYNAMICS**

Eberbeck D.

11:30-13:00**Oral Session****Study of Magnetism using X-rays and Neutrons****Chairperson: Alevtina SMEKHOVA**

5TL-P-1 **POLARIZED NEUTRONS FOR THE INVESTIGATIONS OF MAGNETIC NANOSTRUCTURES**
11:30

Kozhevnikov S.V.

5RP-P-2 **SPIN-WAVE DYNAMIC AND EXCHANGE INTERACTIONS IN MULTIFERROIC $\text{NdFe}_3(\text{BO}_3)_4$ EXPLORED BY INELASTIC NEUTRON SCATTERING**
12:00

Golosovsky I.V., Ovsyanikov A.K., Aristov D.N., Matveeva P.G., Mukhin A.A., Boehm M., Regnault L.-P., Bezmaternykh L.N.

5OR-P-3 **STRUCTURAL AND MAGNETIC PROPERTIES OF THE TRIRUTILE-TYPE 1D HEISENBERG ANTIFERROMAGNET CuTa_2O_6**
12:15

Golubev A., Dinnebier R.E., Schulz A., Kremer R.K., Langbein H., Senyshyn A., Law J.M., Hansen T., Koo H.-J., Whangbo M.-H.

5OR-P-4 **HOW TO EXPLORE MAGNETIC STRUCTURE OF THREE-DIMENSIONAL ARTIFICIAL SPIN ICE?**
12:30

Mistonov A.A., Dubitskiy I.S., Shishkin I.S., Grigoryeva N.A., Grigoriev S.V.

5OR-P-5 **SPIRAL-LIKE MAGNETIC STATE IN EXCHANGE BIASED CoO/Co STRUCTURES SEEN BY WAVEGUIDE-ENHANCED PNR**
12:45

Khaydukov Yu., Zdravkov V., Lenk D., Morari R., Ullrich A., Obermeier G., Müller C., Sidorenko A.S., Krug von Nidda H.-A., Keller T., Horn S., Tagirov L.R., Tidecks R., Keimer B.

12:00-14:00**Poster Session****Magnetic Nanostructures and Low Dimensional Magnetism****Chairperson: Nataliya SVECHKINA**

5PO-I-1 **CRITICAL PHENOMENA IN THE ANTIFERROMAGNETIC ISING MODEL ON A BODY-CENTERED CUBIC LATTICE WITH NEXT-NEAREST-NEIGHBOR INTERACTIONS**

Murtazaev A.K., Ramazanov M.K., Kurbanova D.R., Badiev M.K., Murtazaev K.Sh.

5PO-I-2 **INFLUENCE OF STRUCTURAL DISORDER ON MAGNETIC STRUCTURE OF $\text{Cr}_{1/3}\text{NbS}_2$ AND $\text{Mn}_{1/3}\text{NbS}_2$ HELICAL MAGNETS: ^{55}Mn AND ^{53}Cr NMR STUDY**

Ogloblichev V.V., Piskunov Y.V., Mushenok F.B.

5PO-I-3 **DIP PEN NANOLITHOGRAPHY USING MHA-ACETONITRILE AND ODT-ACETONITRILE FOR HIGH-RESOLUTION STRUCTURES**

Lukyanenko A.V., Smolyarova T.E., Tarasov A.S., Rautskii M.V., Bondarev I.A., Ovchinnikov S.G., Volkov N.V.

- 5PO-I-4 **THE MONTE-CARLO INVESTIGATION OF 2D ANNNI-MODEL**
Murtazaev A.K., Ibaev Zh.G.
- 5PO-I-5 **TOP AND BOTTOM SPIN VALVES WITH Ni-Fe-Mn
 ANTIFERROMAGNETIC LAYER**
Blinov I.V., Krinitsina T.P., Milyaev M.A., Popov V.V., Ustinov V.V.
- 5PO-I-6 **SPIN CLUSTERS IN WARWICKITE SINGLE CRYSTALS**
*Knyazev Yu.V., Bayukov O.A., Kazak N.V., Bezmaternykh L.N., Platonov M.S.,
 Ovchinnikov S.G.*
- 5PO-I-7 **MAGNETIZATION CURVES AND HYSTERESIS LOOPS OF
 NANOSTRUCTURED RARE EARTH TITANATES**
Rinkevich A.B., Korolev A.V., Samoilovich M.I., Demokritov S.O., Perov D.V.
- 5PO-I-8 **HIGH ROTATABLE MAGNETIC ANISOTROPY IN L₁₀FePt
 AND L₁₀CoPt THIN FILMS**
Myagkov V.G., Bykova L.E., Zhigalov V.S.
- 5PO-I-9 **HIGH ROTATABLE MAGNETIC ANISOTROPY IN MnBi ALLOYS,
 OBTAINED BY SOLID STATE REACTIONS IN Mn/Bi/Mn FILMS**
Bykova L.E., Myagkov V.G., Yakovchuk V.Yu., Patrin G.S., Bondarenko G.N.
- 5PO-I-10 **ROLE OF ANTIFERROMAGNETIC SPACER LAYER IN FORMING
 MAGNETIC ORDER IN Fe/Cr/Gd SUPERLATTICES**
Ryabukhina M.V., Kravtsov E.A., Khaydukov Yu., Proglyado V.V., Ustinov V.V.
- 5PO-I-11 **SPIN-CHAIN BEHAVIOR IN La₃CrGe₃Be₂O₁₄ COMPOUND FROM THE
 LANGASITE FAMILY**
Markina M.M., Mill B.V., Kazei Z.A., Granovsky S.A.
- 5PO-I-12 **CRYSTAL STRUCTURE AND SPIN ORDERING OF A LAYERED
 HONEYCOMB-TYPE Li₃Ni₂SbO₆ ANTIMONATE**
Podchezertsev S.Yu., Korshunov A.N., Malyshev A.L., Kurbakov A.I.
- 5PO-I-13 **UNUSUAL SEMICONDUCTING AND TRANSPORT BEHAVIOR IN
 CLUSTER-BASED FE/MO MAGNETIC SYSTEMS**
Antipov S.D., Goryunov G.E., Kornilov A.A., Senina V.A., Avksentev Y.I.
- 5PO-I-14 **COMBINING X-PEEM WITH HR-STEM FOR CORRELATING
 MAGNETISM AND STRUCTURE OF INDIVIDUAL COBALT
 NANOPARTICLES**
*Savchenko T.M., Béché A., Timm M., Bracher D.M., Khadra G.³, Tamion A.,
 Tournus F., Albin C., Dupuis V., Verbeeck J., Nolting F., Kleibert A.*
- 5PO-I-15 **FORMATION OF THE GAPLESS TRIPLET DEGREES OF FREEDOM IN
 THE BOND-DILUTED SPIN-GAP MAGNET (C₄H₁₂N₂)(Cu₂Cl₆)**
Glazkov V., Krasnikova Yu., Hivonen D., Zheludev A.

12:00-14:00

Poster Session

Study of Magnetism using X-rays and Neutrons

Chairperson: Igor GOLOSOVSKY

- 5PO-I1-1 **MAGNETIC HYPERFINE FIELDS FOR ^{111}Cd PROBE NUCLEI IN FeRh AND Fe_3X (X=C, Ge, and Ga) ALLOS**
Krylov V.I., Bosch-Santos B., Cabrera-Pasca G.A., Carbonari A.W.
- 5PO-I1-2 **INVESTIGATION OF THE MESOSTRUCTURE OF TRANSITION METALS MONOGERMANIDES**
Safiulina I.A., Grigoriev S.V., Altynbaev E.V.
- 5PO-I1-3 **PHASE DIAGRAMS OF (Tb,Y)Mn₂Ge₂ AND (Gd,Y)Mn₂Ge₂ STUDIED BY NEUTRON POWDER DIFFRACTION**
Gaidukova I.Yu., Granovsky S.A., Ritter C.
- 5PO-I1-4 **SOFT X-RAY ABSORPTION SPECTROSCOPY OF COBALT-DOPED ANATASE TiO₂ NANOPOWDERS**
Mesilov V.V., Galakhov V.R., Udintseva M.S., Yermakov A.E., Uimin M.A., Gubkin A.F., Sherstobitova E.A.
- 5PO-I1-5 **SYMMETRY DEPENDENT MAGNETISM OF PALLADIUM IONS IN POLYOXOPALLADATES**
Svechkina N., Izarova N., Schmitz D., Smekhova A., Schmitz-Antoniak C.
- 5PO-I1-6 **CRYSTAL STRUCTURE, CHARGE, SPIN STATES OF Co IONS IN Tb_{1-y}Ba_{1+y}Co_{2-x}O_{5.5-δ}: NEUTRON-DIFFRACTION AND X-RAY SPECTROSCOPY STUDIES**
Naumov S.V., Voronin V.I., Telegin S.V., Galakhov V.R., Mesilov V.V., Udintseva M.S., Patrakov E.I., Gaviko V.S., Gizhevskii B.A.
- 5PO-I1-7 **DEBYE-WALLER FACTOR IN THE POLARIZED NEUTRON SCATTERING BY FERROMAGNETIC METALS**
Paradezhenko G.V., Melnikov N.B., Reser B.I.
- 5PO-I1-8 **INFLUENCE OF SEVERE PLASTIC DEFORMATION ON SPIN AND VALENCE STATES OF COBALT IONS IN EuBaCo₂O_{5.5} STUDIED BY MEANS OF X-RAY ABSORPTION SPECTROSCOPY**
Mesilov V.V., Galakhov V.R., Udintseva M.S., Gizhevskii B.A., Naumov S.V.
- 5PO-I1-9 **MAGNETIC ORDERING IN Fe_xMn_{1-x}S UNDER PRESSURE INVESTIGATED BY NEUTRON DIFFRACTION**
Abramova G., Boehm M., Schefer J., Piovano A., Zeer G., Zharkov S., Mita Y., Vorotynov A., Sokolov V.
- 5PO-I1-10 **EFFECTS OF SPIN POLARIZATION ON XMCD AND RESONANT PHOTOEMISSION FROM D, F- STATES IN TbNi₂Mn_x COMPOUNDS**
Grebennikov V.I., Kuznetsova T.V.
- 5PO-I1-11 **NANOPARTICLES OF COBALT FERRITE IN SiO₂-MATRIX: SYNTHESIS, STRUCTURE AND MAGNETIC PROPERTIES**
Khamova T.V., Kopitsa G.P., Shilova O.A., Sokolov A.E., Baranchikov A.E.

- 5PO-I1-12 **MAGNETIC PROPERTIES AND SPIN STRUCTURE OF HONEYCOMB LAYERED $\text{Na}_2\text{Ni}_2\text{TeO}_6$ TELLURATE**
Korshunov A.N., Kurbakov A.I., Malyshev A.L., Podchezertsev S.Yu.
- 5PO-I1-13 **INCOMMENSURATE ANTIFERROMAGNETISM IN THE CENTROSYMMETRIC CUBIC PHASES OF $\text{REGe}_{2.85}$ (RE = Tb, Dy)**
Salamatin D.A., Tsvyashchenko A.V., Sidorov V.A., Petrova A.E., Fomicheva L.N., Kichanov S.E., Salamatin A.V., Velichkov A., Kozlenko D.P., Nikolaev A.N., Ryasny G.K., Makarova O.L., Budzynski M.
- 5PO-I1-14 **MAGNETIC RELAXATION OF Dy IN $[\text{Dy}/\text{Gd}]_{20}$ MULTILAYER DETECTED BY NUCLEAR RESONANCE REFLECTIVITY**
Andreeva M.A., Antropov N.O., Baulin R.A., Kravtsov E.A., Proglyado V.V., Ryabukhina M.V., Chumakov A.I., Rüffer R., Ustinov V.V.

12:00-14:00

Poster Session

Multiferroics

Chairperson: Zukhra GAREEVA

- 5PO-I2-1 **PHASE SEPARATION OF MANGANITES-MULTIFERROICS $\text{Yb}_{1-x}\text{Sr}_x\text{MnO}_3$**
Bykov E.O., Kurbakov A.I., Malyshev A.L., Eremina R.M.
- 5PO-I2-2 **CAPACITANCE DILATOMETER FOR SMALL DEFORMATIONS MEASUREMENTS CAUSED BY EXTERNAL MAGNETIC AND ELECTRIC FIELDS AND TEMPERATURE**
Freydman A.L., Popkov S.I., Krasikov A.A., Mhashenok N.V.
- 5PO-I2-3 **TRANSFORMATION OF DOMAIN STRUCTURE OF PERMALLOY MICROPARTICLES UNDER MECHANICAL TENSION**
Bizyaev D.A., Bukharaev A.A., Chuklanov A.P., Khanipov T.F., Nurgazizov N.I., Russkikh I.V., Sadchikov Yu.V.
- 5PO-I2-4 **SPIN-FLOP DRIVEN MAGNETO-DIELECTRIC EFFECT IN SINGLE CRYSTALS $\text{Cu}_3\text{B}_2\text{O}_6$ AND $\text{Pb}_2\text{Fe}_2\text{Ge}_2\text{O}_9$.**
Balaev D.A., Freydmann A.L., Krasikov A.A., Balaev A.D., Pankrats A.I., Popkov S.I., Kolkov M.I., Sablina K.A., Bovina A.F.
- 5PO-I2-5 **COMPARATIVE STUDY OF MAGNETOELECTRIC EFFECT IN $\text{HoAl}_3(\text{BO}_3)_4$ AND $\text{HoGa}_3(\text{BO}_3)_4$ SINGLE CRYSTALS**
Freydman A.L., Balaev A.D., Dubrovskiy A.A., Temerov V.L., Gudim I.A.
- 5PO-I2-6 **A NEW CLASS OF THE HYBRID DIPOLE SPIN WAVES**
Savchenko A.S., Sukhorukova O.S., Tarasenko A.S., Tarasenko S.V., Shavrov V.G.
- 5PO-I2-7 **NONLINEAR CONVERSION OF MAGNETIC NOISE IN MAGNETOELECTRIC COMPOSITES**
Burdin D.A., Chashin D.V., Ekonomov N.A., Fetisov Y.K.

- 5PO-I2-8 **INVESTIGATIONS OF THE SPIN-WAVE RESONANCE SPECTRA IN MULTILAYER FERRITE-GARNET FILMS WITH ASYMMETRIC BOUNDARY CONDITIONS**
Bazhanov A.G., Trofimov N.O.

- 5PO-I2-9 **INFLUENCE NEUTRON IRRADIATION ON THE STRUCTURAL AND MAGNETIC STRUCTURES OF THE $\text{Bi}_{0.85}\text{La}_{0.15}\text{FeO}_3$ MULTIFERROIC**
Semkin M.A., Teplykh A.E., Parkhomenko V.D., Bogdanov S.G., Karpinsky D.V., Kholkin A.L., Pirogov A.N.

- 5PO-I2-10 **FERROMAGNETIC RESONANCE BROADENING IN FERRITE/PIEZOELECTRIC LAYERED STRUCTURE**
Petrov V.M., Saplev A.F., Tatarenko A.S., Bichurin M.I.

- 5PO-I2-11 **MAGNETOELECTRIC EFFECT IN TWO-LAYERED SELF-BIASED COMPOSITES $\text{Tb}_{0.12}\text{Dy}_{0.2}\text{Fe}_{0.68} - \text{PbZr}_{0.53}\text{Ti}_{0.47}\text{O}_3$**
Kalgin A.V., Gridnev S.A., Poryadsky A.A.

- 5PO-I2-12 **STRUCTURAL AND MAGNETIC PROPERTIES OF THE LiMPO_4 ($M = \text{Ni, Co, Mn}$) SINGLE CRYSTALS**
Semkin M.A., Urusova N.V., Choi I K.-Y., Sim H., Barykina Yu.A., Kellerman D.G., Park J.G., Kratochvilova M., Pirogov A.N.

- 5PO-I2-13 **ELECTROINDUCED MAGNETIC BUBBLE DOMAIN NUCLEATION**
Kulikova D.P., Gareev T.T., Nikolaeva E.P., Pyatakov A.P.

12:00-14:00

Poster Session

High Frequency Properties and Metamaterials

Chairperson: Aleksei OSIPOV

- 5PO-J-1 **EXCITATION OF THE MAGNETIC BREATHING IN THREE-LAYERED FERROMAGNETIC STRUCTURE IN AUTORESONANCE MODE**
Nazarov V.N., Murtazin R.R., Ekomasov E.G.

- 5PO-J-2 **STUDY OF TORQUE ACTING ON MAGNETIZATION DURING 180° PULSED REVERSAL PROCESS IN FERRITE-GARNET FILMS WITH BIAxIAL ANISOTROPY**
Kolotov O.S., Matyunin A.V., Nikoladze G.M., Polyakov P.A.

- 5PO-J-3 **PLASMONS IN CHAINS OF NANOPARTICLES OF COMPLEX SHAPE**
Pikalov A.M., Dorofeenko A.V., Granovsky A.B.

- 5PO-J-4 **MEASUREMENTS OF FREQUENCY DEPENDENCE OF MICROWAVE COMPLEX PERMEABILITY UNDER MAGNETIC BIAS**
Shiryaev A.O., Bobrovskii S.Y., Osipov A.V., Petrov D.A., Rozanov K.N., Starostenko S.N.

- 5PO-J-5 **CONDITIONS FOR DIVISION AND MULTIPLICATION OF FREQUENCIES IN FERRITE**
Pleshev D.A., Vlasov V.S., Asadullin F.F., Kotov L.N., Poleschchikov S.M., Shavrov V.G., Shcheglov V.I.

- 5PO-J-6 **HYPERSOUND EXCITATION OF MAGNETIZATION AND ELASTIC DISPLACEMENT IN CASE OF MAGNETIZATION REVERSAL**
Asadullin F.F., Pleshev D.A., Vlasov V.S., Kotov L.N., Poleschchikov S.M., Shavrov V.G., Shcheglov V.I.
- 5PO-J-7 **ROTATIONAL REMAGNETIZATION AND ORIENTATIONAL TRANSITIONS IN SUBMICRON FILMS OF YIG**
Poimanov V., Shkar V., Nepochatykh Yu., Shavrov V., Koledov V.
- 5PO-J-8 **MAGNETOOPTICAL AND MAGNETIC RESONANCE PROPERTIES OF NANO-SCALED GRANULAR FILMS $(\text{CoFeB})_x(\text{SiO}_2)_{100-x}$ and $(\text{CoFeB})_xC_{100-x}$**
Vyzulin S.A., Gan'shina E.A., Garshin V.V., Kirov S.A., Perova N.N., Syr'ev N.E.
- 5PO-J-9 **DEFECT MODES COUPLING IN SPIN-WAVE MAGNONIC CRYSTALS**
Sharaevskaia A.Yu., Beginin E.N.
- 5PO-J-10 **MULTIMODE MAGNETIC RESONANCE IN HEUSLER ALLOY $\text{Ni}_{50}\text{Mn}_{35}\text{In}_{14.9}\text{Ag}_{0.1}$**
Vysulin S.A., Kevraletin A.L., Syr'ev N.E., Pasternak D.G., Dubenko I.S., Granovsky A.B.
- 5PO-J-11 **MAGNETODYNAMIC PROPERTIES OF A COMPOSITE $(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_{65}(\text{SiO}_2)_{35}$ DEPOSITED ON GLASS CLOTH**
Kalinin Yu.E., Sitnikov A.V., Tarasova O.S., Philopov V.V.
- 5PO-J-12 **MAGNETIC PROPERTIES OF THIN YIG FILMS PREPARED BY PULSED LASER DEPOSITION**
Nosov A., Dubinin S., Kravtsov E., Ryabukhina M., Antropov N., Starichenko D., Ivanov D., Bessonov V., Kobelev A.
- 5PO-J-13 **BRILLOUIN LIGHT SCATTERING STUDY OF YIG-GALLIUM ARSENIDE**
Sadovnikov A.V., Beginin E.N., Stognij A.I., Sharaevskii Yu.P., Nikitov S.A.
- 5PO-J-14 **NON-UNIFORMITY OF THE DEMAGNETIZING FIELD AS A BROADBAND SOURCE OF SPIN WAVES**
Mushenok F.B., Dost R., Davies C.S., Allwood D.A., Inkson B.J., Kruglyak V.V.
- 5PO-J-15 **THE FERROMAGNETIC RESONANCE IN CONDITIONS OF ORIENTATION TRANSITION IN MAGNETIC FILMS WITH COMPLEX CHARACTER OF ANISOTROPY**
Shavrov V.G., Shcheglov V.I.
- 5PO-J-16 **MILLIMETER-WAVE CHARACTERIZATION OF FLUX GROWN $\text{Ba}_{0.8}\text{Pb}_{0.2}\text{Fe}_{10}\text{Al}_2\text{O}_{19}$ SINGLE CRYSTALS**
Vinnik D.A., Ustinov A.B., Ustinova I.A., Gudkova S.A., Zherebtsov D.A.
- 5PO-J-17 **HIGH FREQUENCY PROPERTIES OF THE SUBSTITUTED M-TYPE HEXAFERRITES**
Trukhanov A.V., Panina L.V., Trukhanov S.V., Yakovenko O.S., Turchenko V.A.

- 5PO-J-18 **THE PARTICIPATION OF ELASTIC DISSIPATION IN CREATION OF
MAGNETIC DISSIPATION IN MAGNETOELASTIC MEDIUM**
Vetoshko P.M., Shavrov V.G., Shcheglov V.I.

- 5PO-J-19 **FERROMAGNETIC RESONANCE OF NONHOMOGENEOUS STATES
IN MAGNETIC NANOSTRUCTURES**
Mironov V.L., Gorev R.V., Sapozhnikov M.V., Skorohodov E.V.

12:00-14:00

Poster Session

Magnetic Shape Memory and Magnetocaloric Effect

Chairperson: Igor RODIONOV

- 5PO-K1-1 **AB INITIO STUDY OF GROUND STATE AND MAGNETIC
PROPERTIES OF Fe-Ga ALLOYS**
Matyunina M.V., Zagrebin M.A., Sokolovskiy V.V., Buchelnikov V.D.

- 5PO-K1-2 **TERNARY PHASE DIAGRAM OF NI-MN-GA: INSIGHTS
FROM AB INITIO CALCULATIONS**
*Sokolovskaya Y.A., Zagrebin M.A., Sokolovskiy V.V., Buchelnikov V.D.,
Zayak A.T.*

- 5PO-K1-3 **THE TRANSFORMATION OF THE MAGNETOSTRUCTURAL PHASE
TRANSITION WITH Ti ADDITION IN Gd₅Si₂Ge₂**
*Nikitin S.A., Smirnov A.V., Bogdanov A.E., Ovchenkova I.A., Ovchenkov E.A.,
Morozkin A.V.*

- 5PO-K1-4 **MAGNETOCALORIC EFFECT IN NI-MN-SN-BASED HEUSLER
ALLOYS DOPING BY Si AND Ge**
*Marchenkov V.V., Emelyanova S.M., Marchenkova E.B., Dyakina V.P.,
Koshkid'ko Yu.S., Ćwik J., Dilmieva E.T., Wang R.L., Yang C.P., Sauerzopf F.,
Frischauf K., Belozeroва K.A.*

- 5PO-K1-5 **COUPLE CALORIC EFFECTS IN MULTIFERROIC COMPOSITES**
*Aliev A.A., Sokolovskiy V.V., Chichay K.A., Rodionova V.V., Amirov A.A.,
Abdulkadirova N.Z.*

12:00-14:00

Poster Session

Magnonics

Chairperson: Edwin LOCK

- 5PO-K2-1 **SPIN WAVE CONTROLLER**
Khivintsev Y.V., Sakharov V.K., Kozhevnikov A.V.

- 5PO-K2-2 **MICROMAGNETIC SIMULATION OF MSSW PROPAGATION IN THE
SUBWAVELENGTH MAGNONIC STRUCTURE**
*Dudko G.M., Vysotskii S.L., Khivintsev Y.V., Filimonov Y.A., Sakharov V.K.,
Novitskii N.N., Stognij A.I.*

5PO-K2-3 **MULTI-CHANNEL STRAIN-TUNED LATERAL MAGNONIC COUPLER**
Grachev A.A., Sadovnikov A.V., Beginin E.N., Serdobintsev A.A., Mitin D.M.,
 Sharaevskii Yu.P., Nikitov S.A.

5PO-K2-4 **SUPERDIRECTED BEAM OF THE BACKWARD VOLUME SPIN WAVE**
 Annenkov A.Yu., Gerus S.V., Lock E.H.

5PO-K2-5 **DAMPING PROCESS OF NON-REFLECTION SPIN WAVE IN YTTRIUM
IRON GARNET FILM**
Bessonov V.D., Telegin A.V., Sukhorukov Yu.P., Gieniusz R., Guzowska U.,
 Maziewski A., Stognij A.I.

12:00-14:00

Poster Session

Diluted Magnetic Semiconductors and Oxides

Chairperson: Irina FEDORCHENKO

5PO-K3-1 **CONNECTION OF THERMOPOWER, MAGNETOTHERMOPOWER
WITH RESESTIVITY AND MAGNETORESESTIVITY IN MANGANITES
WITH Nd AND Sm**
Koroleva L.I., Batashev I.K., Morozov A.S., Balbashov A.V., Szymczak H.,
 Slawska-Waniewska A.

5PO-K3-2 **FEATURES OF THE MAGNETO-OPTICAL RESPONSE IN MANGANITE
FILMS**
Samoshkina Yu.E., Edelman I.S., Sokolov A.E., Molokeevev M.S., Maximova O.A.,
 Andreev N.V., Chichkov V.I.

5PO-K3-3 **COMPETING INTERACTIONS, AND MAGNETIZATION DYNAMICS IN
DOPED RARE-EARTH MANGANITES NANOSTRUCTURAL SYSTEM**
 Shah W.H.

5PO-K3-4 **PROPERTIES OF POROUS SILICON PRECIPITATED WITH NI**
Soboleva E.A., Geydt P., Zakharchuk I., Spivak Y.M., Moshnikov V.A.,
 Lahderanta E.

5PO-K3-5 **MAGNETIC PROPERTIES OF COBALTITES DOPED BY Cr, Ga, Ti, Fe**
Troyanchuk I.O., Karpinsky D.V., Silibin M.V., Gavrilov S.A.

14:30-16:00

Plenary Lectures

Chairperson: Sergei OVCHINNIKOV

5PL-A-3 **X-RAY MAGNETIC CIRCULAR DICHROISM: UNIQUE PROBE OF
14:30 MAGNETISM**
 Rogalev A.

5PL-A-4 **MAGNETISM AT HIGH PRESSURES**
 15:15 Lyubutin I.S.

Author Index

A

- | | | | | | |
|-------------------------|----------------|-----------------------|--------------|--------------------------------|-------------|
| Aarts J. | 29, 42 | Alekseev S.G. | 112 | Anokhin E.O..... | 62, 63 |
| Abakumov A.M. | 50 | Alekseeva O.A..... | 109 | Antipov S.D..... | 118 |
| Abakumov M.A. | 65, 67 | Alemayehu A. | 77 | Antonets I.V. | 39 |
| Abakumova N.N. | 87 | Aleshin K.N. | 29 | Antonov A.S..... | 39, 45 |
| Abdulkadirova N.Z. | 123 | Alfadhel A. | 85 | Antonov I.N..... | 107 |
| Abdullaev G.O. | 110 | Alfonsov A. | 101 | Antonov V..... | 75 |
| Abdullaev M.A..... | 70 | Ali N. | 43 | Antropov N.O..... | 120, 122 |
| Abdullah R.M. | 56 | Aliiev A.A..... | 94, 123 | Apalkov D. | 41 |
| Abilov I. | 87 | Aliiev A.M..... | 43, 44, 93 | Apanasevich V. | 78 |
| Abramova G..... | 119 | Alisultanov Z.Z..... | 47, 110 | Aplesnin S.S. | 100, 104 |
| Abreu Araujo F. | 95 | Aliyev M.N..... | 54 | Aprili M..... | 29 |
| Abrikosov I.A.... | 47, 59, 87, 93 | Allodi G. | 54 | Aqeel A..... | 114 |
| Abrosimova G..... | 88 | Alloul H. | 102, 106 | Aquino R. | 59 |
| Abu-Bakr A.F..... | 64 | Allwood D.A..... | 74, 122 | Arai H. | 56 |
| Acet M..... | 32 | Alsharif N.A. | 85 | Arauzo A. | 104 |
| Achanta V.G..... | 37 | Altynbaev E.V. | 32, 119 | Aref'ev I.M..... | 76 |
| Acremann Y. | 102 | Alves Marins J. | 115 | Aristov D.N. | 117 |
| Adachi Y. | 43 | Amara B.H..... | 115 | Arkhipov D.I. | 35 |
| Adam A.M. | 45, 55, 87, 89 | Amelichev V.A..... | 72 | Arnau A. | 99 |
| Adamovich Yu.A. | 72 | Amirabadizadeh A..... | 66 | Arnold Z. | 71, 90 |
| Adanakova O.A..... | 54, 55, 71 | Amirov A.A. | 94, 123 | Aronin A..... | 88 |
| Ado I.A..... | 112 | Andersen B.M..... | 113 | Aronov A.N..... | 31, 62 |
| Afanasiev D..... | 113 | Andrade R..... | 66 | Aronzon B.A. | 62, 99, 104 |
| Afremov L..... | 78 | Andreev A.V..... | 71, 87, 92 | Artemyeva A.S. | 51 |
| Agafonov L.Y. | 53, 89 | Andreev N.V..... | 74, 104, 124 | Arushanov E..... | 44 |
| Agrawal A. | 37 | Andreev S. | 29 | Arutyunov K.Yu..... | 42 |
| Ahmed A. | 106 | Andreev S.V. | 90 | Aryal A. | 43 |
| Ahmed M. | 55 | Andreeva M.A. | 77, 120 | Arzhnikov A.K.47, 53, 98, 110, | |
| Ahn J. | 41 | Andreeva N.V..... | 102 | 111 | |
| Aizpurua J.M..... | 77 | Andrianov A.VI. | 110 | Asadullin F.F..... | 121, 122 |
| Akhmetova A.A. | 109 | Andrianov E.S..... | 67, 103 | Asai H..... | 82 |
| Akimov A.V..... | 57 | Andrianov T..... | 33, 35 | Ashrafizadeh A..... | 91 |
| Akimov I.A. | 31, 37, 70 | Andries M. | 62 | Astakhov V.A..... | 39 |
| Aksenov S.V. | 103 | Andrieu S..... | 95 | Ataeva G.Y..... | 52 |
| Aksenova E. | 41, 96 | Andrievskii D.S. | 92 | Atcheson G. | 29, 95 |
| Alameh K. | 38 | Anikin M.S. | 90, 94 | Attanasio C. | 42 |
| Albin C..... | 118 | Anikin Yu.A. | 35 | Atuchin V.V. | 91 |
| Alekhin A..... | 43, 57, 75 | Anisimov M.A. | 33 | Au Y. | 74 |
| Alekhina Yu.A. | 63, 116 | Anisimov N.V..... | 65 | Auffret S. | 36, 71, 85 |
| Alekseev A.V..... | 53 | Annenkov A.Yu..... | 124 | Auslender M..... | 115 |
| Alekseev I.V..... | 90 | Anokhin A.O..... | 72 | Avdeev M.V..... | 68, 77, 98 |

Averkiev N.S..... 44, 105, 114
 Averyanov D.V... 33, 106, 115
 Avilov A.S. 96
 Avksentev Y.I. 118

B

Baba and Lou G. 43
 Babaev A.B. 52, 111
 Babaizev G.V. 36
 Babanov Yu.A. 77
 Babaytsev G.V. 48, 95
 Babcock E. 59
 Bachmann J. 60
 Badelin A.G. 104, 105
 Badiev M.K. 52, 117
 Baenitz M. 107
 Baglaeva J.A. 88
 Bakhteeva Yu. 65
 Bakhtiiarov A.V. 101
 Bakirov M.M. 53
 Bakurskiy S.V. 69, 73
 Balaev A.D. 100, 105, 120
 Balaev D.A. 68, 69, 72, 78, 120
 Balahontsev A.B. 68
 Balasoiu M. 62, 63, 64, 92, 115
 Balasoiu-Gaina A.M. 64
 Balbashov A.M. 102, 108
 Balbashov A.V. 124
 Bali R. 46, 71, 116
 Baltz V. 71
 Baluyan T. 92
 Balymov K.G. 54, 55, 71
 Bandyopadhyay S. 106
 Banerjee A. 106
 Banerjee R. 46
 Bannikov V.V. 104
 Bannikova N.S. 62, 70
 Bao W. 46
 Baraban I. 72, 92
 Barabanenkov Y.N. 37, 75
 Barabanov A.F. 74
 Baranchikov A.E. 119
 Baranov N.V. 41, 88, 94
 Baranovskii S.D. 61
 Barbieri M. 42
 Barkalova A.S. 69
 Barquín L.F. 77
 Barrera G. 59
 Barsaume S. 45, 101, 107
 Barsukova M.G. 37, 42
 Bartolomé J. 104
 Barton C. 90
 Barykina Yu.A. 121
 Baryshev A.V. 42
 Baryshnikov K.A. 105
 Basiladze G.D. 38
 Baskakov A.O. 96
 Bataronov I.L. 91
 Batashev I.K. 124
 Batdalov A.B. 93
 Batrudinov T.M. 63
 Batulin R.G. 54
 Baturin V.S. 60
 Bauer E. 102
 Baulin R.A. 77, 120
 Bautin V.A. 78
 Bayer M. 31, 37, 57, 70
 Baykenov E.Z. 50
 Bayukov O.A. 51, 78, 118
 Bazhanov A.G. 121
 Bazhanov D.I. 55, 97
 Beaud P. 102
 Bebenin N.G. 105, 114
 Béché A. 118
 Becker P. 38, 114
 Becker T.I. 64
 Beckman D. 29, 42
 Bedin S.A. 39
 Beginin E. 75
 Beginin E.N. 60, 122, 124
 Beketov I.V. 31, 66, 89
 Beketova A.I. 89
 Belanovsky A.D. 41, 96
 Belik A.A. 75, 108
 Belkhov R. 60
 Belmeguenai M. 81
 Beloborodov I.S. 58
 Belotelov V.I. 36, 37, 38, 58, 70
 Belousova A.V. 67
 Belov I.A. 113
 Belov M.P. 93
 Belovs M. 58
 Belozerova K.A. 123
 Belskii I.E. 53
 Belyaev V. 38
 Belyaeva I.A. 84
 Belzig W. 29, 42, 69
 Bender P. 77
 Berdonosov P. 61
 Berdonosov P.S. 68
 Berganza E. 92
 Bergeard N. 102
 Berkov D. 30, 41, 53
 Bernal O. 73
 Bersuker I.B. 105
 Bertran F. 95
 Berzhansky V.N. 37, 38
 Berzin A.A. 103
 Bessalova V.V. 66, 72
 Besse V. 75
 Bessonov V.D. 105, 122, 124
 Bessonova K.O. 89
 Bessonova N.P. 39
 Bessonova V.A. 101
 Bethanie S. 44
 Betto D. 29, 95
 Bewley R. 86
 Bezmaternykh L.N. 47, 82, 93, 105, 108, 109, 117, 118
 Beznosikov D.S. 39, 53, 54, 88
 Bezus A.V. 86
 Bhagat S.M. 113
 Bianconi A. 57
 Bica I. 63, 115
 Bichurin M.I. 61, 108, 121
 Bihlmayer G. 99
 Biller A.M. 100
 Billington D. 30
 Bilych I.V. 109
 Birringer R. 77
 Bizyaev D.A. 109, 120
 Blanco J.M. 72
 Blanco-Rey M. 82
 Blinov I.V. 36, 118
 Blinov M.I. 61
 Block Th. 105
 Blokhina A.D. 67
 Blyakhman F.A. 44
 Bo L. 73
 Bobin S.B. 36
 Bobkov A.M. 98
 Bobkova I.V. 98
 Bobrovskii S.Y. 45, 60, 121
 Bocharova O.A. 65
 Bochmann S. 60
 Boehm M. 117, 119
 Bogach A.V. 33, 40, 54
 Bogachev Yu.V. 66
 Bogdanov A.E. 123
 Bogdanov S.G. 121
 Bogdanova Kh.G. 104
 Boguschewski C. 114
 Bohatý L. 38
 Boldyrev K.N. 102, 108
 Bolshakov A.P. 61

Bolyachkin A.S.	89	Burnell G.	57	Cheng C.-L.	66
Bondar E.D.	86	Burova L.I.	106	Cheng P.C.	74, 114
Bondarenko G.N.	118	Buryakov A.M.	109	Cheong S.-W.	101
Bondarev A.V.	91	Busch R.	77	Chepkov G.N.	35
Bondarev I.A.	34, 53, 117	Bush A.A.	105	Cherdantseva V.V.	87
Bordács S.	114	Bushuev A.N.	63	Cherebilo E.A.	28, 105
Bordyuzhin I.G.	89	Butvina L.N.	79	Cherebylo E.A.	62
Borin D.Yu.	64, 100, 101	Buzdin A.	95	Cherepanov V.N.	50
Borisenko I.V.	33	Buznikov N.A.	39, 45	Cherepkov M.O.	90
Borisov K.	29, 95	Bychkov I.V.	37, 39	Chérif M.	8
Borkunov R.Y.	49	Byeonghwa L.	44	Cherkasov V.R.	85
Borovkova O.	70	Bykov E.O.	120	Chernenkov Yu.P.	71
Bortolotti P.	95	Bykov I.V.	115	Chernichenko A.V.	49
Bosch-Santos B.	119	Bykova L.E.	118	Chernoglazov K.Yu.	28, 82
Bosseboeuf A.	91	Byzov I.V.	65, 66, 67	Chernov A.I.	36, 37
Bothschafter E.	102			Chernyavskii I.V.	107
Böttger R.	45, 71			Chernyshova T.A.	33, 62
Bouravleuv A.D.	31			Cherosov M.A.	47
Bousseksou A.	70			Chetvertukhin A.V.	38
Bouzehouane K.	81			Chiang J.-C.	114
Bouznik V.M.	53			Chichay K.A.	72, 92, 123
Bovina A.F.	105, 120			Chichkov V.I.	124
Bracher D.M.	118			Chigarev S.G.	33, 35
Bragina V.A.	85			Chikov A.A.	110, 111
Bran C.	73			Chinenkov M.Yu.	35
Brener S.	47			Chirikov D.N.	65
Brun C.	97			Chirkov V.V.	109
Brusentsov N.A.	65			Chistotina E.A.	61
Buchelnikov V.D. ...	44, 78, 94, 123			Chistyakov V.V.	33
Buchkevich A.A.	105			Chistyakova N.I.	53
Büchner B.	68, 74, 79, 101, 106			Chizhevskii E.G.	99
Buda-Prejbeanu L. ...	36, 41, 112			Chizhova I.A.	51, 78
Budarin L.I.	45			Chlenova A.A.	66
Budrin K.S.	110, 111			Choi E.S.	61
Budzynski M.	69, 120			Choi K.-Y.	121
Buettgen N.	107			Chou Yi-Chia ...	81
Bugaev A.S.	82			Choudhary R.N.P.	75
Bugoslavsky Yu.	84			Chshiev M.	36, 41, 112
Bugrov A.N.	89			Chtchelkatchev N.M.	69
Bukharaev A.A.	109, 120			Chu Y.J.	74
Bukhtiyarova G.A.	72			Chuev M.A.	73
Bukunov K.A.	36			Chukalina E.P.	83
Bulatov A.R.	104			Chuklanov A.P.	109, 120
Bunkov Yu.M.	74			Chulkov E.V.	62, 83, 99
Bunoiu M.	63, 115			Chumak A.V.	83
Buravtsova V.E.	52			Chumakov A.I. ...	53, 59, 77, 120
Burdin D.A.	100, 116, 120			Chumakov A.P.	62
Burkhanov G.S.	113			Chumakov N.K.	35
Burkhovetskiy V.V.	104			Chupakhina T.	50
Burma N.G.	109			Chuprakov S.A.	36
Burmistrov I.S.	83			Churbanov A.	99
				Churyukanova M.	72, 91

Chvalun S.N. 104
 Chzhan A.V. 48
 Chzhan V.B. 94, 113
 Cimbala R. 100
 Cirillo C. 42
 Cirlin G.E. 31
 Coey J.M.D. 29, 95
 Coïsson M. 59
 Collin S. 81
 Constantinian K.Y. 33, 98
 Contreras M.F. 85
 Cooper J.F.K. 57
 Cornei N. 33, 106
 Cornelius S. 116
 Cöster B. 46
 Craus M.-L. 33, 106
 Creanga D.-E. 62, 64
 Cren T. 97
 Cristiani G. 69, 74
 Cros V. 81, 95
 Crozier E.D. 75
 Cwik J. 43, 79, 87, 94, 123

D

Dabrovski B. 107
 Dagesyan S.A. 37, 38
 Dan N.H. 79
 Danilov A.P. 57
 Danilov G. 67
 Danilov Yu.A. 35, 107
 Danilovich I.L. 49, 80
 Datskaya Z.R. 104
 Davidov D. 91, 113
 Davies C.S. 74, 122
 Davydenko A.V. 72, 92
 Davydov V.Yu. 38, 102
 Davydova M.D. 102
 De Renzi R. 54
 Deac A.M. 29, 34, 81, 95
 Deb M. 102
 Debontridder F. 97
 Debus J. 31
 Deckarm M. 77
 Deeva J. 50
 del Val J.J. 88
 Delfanazari K. 60, 114
 Demaille D. 97
 Demeter J. 59
 Demidenko O.F. 104
 Demidov E.S. 45, 78
 Demidov V.V. 33, 98, 104

Demin G.D. 36
 Demin V.A. 82
 Demina P.B. 35, 107
 Deminov R.G. 68
 Demirov N.A. 47
 Demishev S.V. 33, 39, 40, 54, 60, 71, 106, 114
 Demokritov S.O. 56, 118
 Denisiov N.D. 91
 Denisov F.O. 113
 Denisov K.S. 44, 114
 Denisov R.S. 51
 Denisova E.A. 50, 87, 91
 Denisova K. 106
 Denisova T.P. 66, 67
 Denizhan E.O. 97
 Depeyrot J. 59
 Derevyanko M.S. 35, 39, 89
 Deriglazov V.V. 66, 102
 Deryushkin V.V. 36
 Devyaterikov D.I. 77
 Dey T. 106
 Deyev S.M. 67
 Dianov M.Yu. 39
 Dieny B. 35, 36, 41, 85, 112
 Diep H.T. 75
 Diesch S. 29
 Dikansky Yu.I. 48, 63, 64
 Dilmieva E.T. 43, 79, 93, 123
 Dimitrova O.V. 49, 51
 Ding J. 75
 Dinnebier R.E. 86, 88, 117
 Disch S. 77
 Diuzhikov I.N. 74
 Djuzhev N.A. 35
 Dmitreev O.G. 71
 Dmitrenko V.V. 89
 Dmitriev A. 86
 Dmitrieva N.V. 91
 Dobrea V. 33, 106
 Dobretsov K.G. 78
 Dobroserdova A.B. 63, 65
 Doerr M. 92
 Dolgikh V. 61
 Dolgov A.I. 38
 Dolgova T.V. 37, 38
 Dolnik B. 100
 Dolzhikova A. 50
 Domracheva N.E. 116
 Donaldson J.G. 76
 Dong X. 44
 Dornes C. 102

Dorofeenko A.V. 121
 Dorokhin M.V. 35, 107
 Doronin I.V. 103
 Doroshenko R.A. 40, 108
 Dost R. 74, 122
 Dragos O. 78
 Dragunov I.E. 38
 Drechsler S.-L. 101
 Drobosyuk M.O. 94
 Drokina T.V. 104
 Drouhin H.-J. 28
 Drovosekov A.B. 28, 96, 116
 Drozdova A.K. 50
 Drozdovskii A.V. 83
 Drulis H. 113
 Dubenko I.S. 43, 92, 122
 Dubinin S. 122
 Dubitskiy I. 49, 117
 Dubois E. 59
 Dubovik M.N. 50, 52, 92
 Dubovskii L.B. 103
 Dubrovskiy A.A. 72, 78, 100, 105, 120
 Dudko G.M. 40, 123
 Dudnikov V.A. 46, 107
 Duginov V.N. 92
 Dukhnenko A.V. 40
 Dupuis V. 118
 Dusch Y. 99
 Dutreix C. 114
 Dyakina V.P. 123
 Dyuzhev N.A. 50
 Dzebisashvili D.M. 74
 Dzhioev R.I. 31
 Dzhumaliev A. 90
 Dzhumazoda A. 45, 55, 89
 Dzhun I. 48, 95
 Dziom V. 108

E

Éber N. 100
 Eberbeck D. 116
 Eceiza M. 77
 Echenique P.M. 99
 Eckerlebe H. 84
 Edelman I. 97, 107
 Edelman I.S. 124
 Efremova M.V. 65, 67
 Efremova S.L. 109
 Eggert B. 46
 Ehresmann A. 77

Ehrler J. 71, 90, 116
 Eisebitt S. 113
 Eisterer M. 28, 33
 Ekomasov A.E. 36
 Ekomasov E.G. 36, 87, 90, 121
 Ekonomov N.A. 100, 116, 120
 El Hadri M.S. 102
 Elfimova E.A. ... 52, 58, 63, 64
 Eliseev A.A. 63
 Eliseev An.A. 62
 Eliseev Ar.A. 62
 Elistratov A.A. 57
 Elzawawy A.A. 48
 Emelyanova S.M. 123
 Ensinger W. 60
 Erager K.R. 94
 Erbe A. 81
 Eremeev S.V. 83
 Eremin A. 76
 Eremin E.V. 100, 105, 108, 109
 Eremin I. 113
 Eremina R.M. 47, 50, 82, 107, 120
 Erhan R.V. 33, 106
 Eriksson O. 112
 Erina E. 28
 Ermakov K.S. 92
 Ermolaeva O.L. 88, 114
 Ernst A. 75, 83, 99
 Erofeev D.A. 83
 Erokhin S. 30, 41
 Ershov N.V. 71
 Escobosa A. 45
 Esmaeili A. 54
 Espinosa D. 31
 Estemirova S.Kh. 104
 Ester M. 49
 Esters M. 107
 Estipanos M. 73
 Etter M. 86
 Evstigneeva S.A. 45, 89
 Ezhkov P.Yu. 48
 Ezhov A.A. 37
 Ezzaier H. 115

F

Falaleev O.V. 78
 Farle M. 32, 67, 72, 73, 82
 Farrer I. 114
 Farzetdinova R.M. 87

Fassbender J. 29, 34, 60, 81, 90, 116
 Faugeras C. 70
 Fayzullin M.A. 79
 Fayzullin R.R. 94
 Fazlizhanov I.I. 107
 Fedorchenko I.V. 31
 Fedorov V.A. 107
 Feduschak T.A. 78
 Fedyanin A.A. 37, 38, 42, 76
 Felk V.A. 49, 50, 116
 Fernandes R.M. 113
 Fernández J.R. 77
 Fernandez L. 82
 Fernandez-Roldan J.A. 60
 Fert A. 81
 Fetisov L.Y. 109, 116
 Fetisov Y.K. 100, 116, 120
 Fickenscher Th. 105
 Figueiredo Neto A.M. 31
 Fil' V.D. 109
 Filatrella G. 95
 Filimonov D.S. 72
 Filimonov Y.A. 40, 60, 90, 123
 Filinkova M. 65
 Filipov V.B. 33, 54, 60
 Filippov B.N. 50, 52, 91, 92
 Filippov D.M. 37
 Filippov V.I. 73
 Flachbart K. 54
 Flannigan D.J. 78
 Flokstra M.G. 57
 Fluerasu D. 92
 Fokina N.A. 60
 Fokwa B.P.T. 105
 Fomicheva L.N. 69, 120
 Fominov Ya.V. 68, 74, 83
 Fontcuberta J. 81
 Forestier G. 71
 Fowley C. 29, 34, 95
 Fraerman A.A. 78, 96, 114
 Frangou L. 71
 Fratila R.M. 77
 Freydmann A.L. 100, 120
 Fridman Yu.A. 51, 111
 Frischauf K. 123
 Frolov A.Yu. 37
 Frolov K.V. 109
 Fruchart O. 60
 Fukushima A. 95
 Fullerton E.E. 113
 Furdyk V.P. 82

Futamato M. 41

G

Gabáni S. 54
 Gabay A. 30
 Gabbasov B.F. 54
 Gage T. 78
 Gaidukova I.Yu. 119
 Gaifullin R.R. 68
 Galakhov V.R. 119
 Galeev R.M. 93
 Galeski S. 86
 Galias A.I. 93
 Galkin V. 41
 Gallardo R. 81, 95
 Galyas A.I. 104
 Gambarelli S. 71
 Gamzatov A.G. 93
 Gan'shina E.A. 38, 52, 96, 101, 105, 106, 115, 122
 Gao T. 28
 Gapihan E. 41, 96
 Gapochka A.M. 108
 Gapontsev V.V. 105
 Garanina A.S. 67
 Garanov V.A. 60
 Garcia K. 81
 Garcia-Santiago A. 42
 Gareev K.G. 52, 66
 Gareev T.T. 121
 Gareeva Z.V. 58, 108
 Gargiani P. 75
 Garifullin I.A. 68, 74
 Garifyanov N. 68, 83
 Garshin V.V. 122
 Garwood M. 78
 Gastiasoro M.N. 113
 Gautier E. 60
 Gaviko V.S. 86, 87, 88, 91, 94, 119
 Gavrikov I.S. 35
 Gavrilkin S.Yu. 68, 107
 Gavrilov S.A. 76, 124
 Gavrilova T.A. 91
 Gavrilova T.P. 50, 82, 110
 Gavrilyuk A.A. 89
 Gaydamak T.N. 109
 Gazizov A.I. 94
 Gdovinová V. 100
 Gemming S. 34
 Gerashenko A.P. 51, 107, 110

- Gerasimov E.G..... 87, 88
 Gerasimov M.V..... 30
 Gerasimova T.P..... 110
 Germov A.Yu..... 107
 Gerus S.V..... 124
 Gervits N.E..... 47, 65
 Getalov A.L..... 92
 Geydt P..... 78, 90, 124
 Ghanaatshoar M..... 60
 Ghasemi A..... 91
 Ghemes A..... 78
 Gieniuks R..... 124
 Gilbert E.P..... 32
 Gilewski A. 79
 Gilmanov M.I..... 39, 40, 60
 Gilmutdinov I.F.47, 50, 54, 82, 106
 Gilmutdinov V.F..... 98, 111
 Gimaev R.R..... 30, 94
 Giordano S. 99
 Giovannini M. 102
 Gippius A.A. 107
 Gizhevskii B.A..... 119
 Gladii O..... 71
 Gladkikh D.V..... 48
 Glavin B.A. 57
 Glazkov V. 79, 118
 Glezer A.M..... 88
 Glownia J.M..... 102
 Glushkov V.V. . 33, 40, 54, 71, 114
 Gnezdilov V. 61
 Goikhman A..... 93
 Gokhfeld D.M. 69
 Goldobin E. 97
 Golev I.M..... 69
 Golik L.L..... 105, 106, 115
 Golosovsky I.V. 117
 Golov A.V..... 75
 Golovanov A. 74
 Golovchan A.V. 94
 Golovnia O.A..... 86, 91
 Golubev A. 117
 Golubev E.A..... 39, 53, 54
 Golubeva E.V..... 66
 Golubov A.A..... 68, 73
 Gomide G..... 59
 Gonçalves E.S. 31
 Gonchar L.E..... 57
 Goodilin E.A. 101
 Gorbachev E.A..... 51, 88
 Gorbachev O.I. 71
 Gorbunov D.I..... 87, 92
 Gordon E..... 51
 Gorelikov E.S. 86
 Gorev R.V..... 123
 Gorkovenko A.N. 54, 55
 Gorn N. 53
 Gornakov V.S. 50
 Gornostyrev Yu.N. 71
 Gorshenkov M.V. 72, 88
 Gorshkov B.G..... 85
 Gorshunov B.P..... 88
 Goryunov G.E..... 118
 Gosztola D.J..... 113
 Goto T. 38, 40, 43, 75
 Gotovko S.K. 61, 83
 Govor G.A..... 93
 Govorkova T.E. 36
 Grabchikov S.S..... 89
 Grachev A.A..... 124
 Grachev R.A. 106
 Grachev V.M. 89
 Grafe H.-J. 101, 106
 Grajcar M..... 98
 Granovsky A.B.43, 52, 61, 75, 78, 82, 92, 121, 122
 Granovsky N.V..... 38
 Granovsky S.A..... 118, 119
 Grebennikov A.A..... 33
 Grebennikov V.I. 119
 Grebenshchikov Yu.B. 86
 Grenzer J..... 71
 Gribanov I.F..... 94
 Grichuk E.S. 35
 Gridnev S.A. 121
 Grigoros M..... 62
 Grigoriev S.V. 32, 49, 84, 106, 117, 119
 Grigoryeva N.A. 49, 117
 Grishin A.S. 33
 Gritsaj K.I. 92
 Gritsenko Ch.A..... 48, 95
 Grollier J. 95
 Groshev A.G..... 110
 Grunin A. 38, 93
 Grüninger M. 114
 Gruzdev M.S..... 116
 Gruzinov A.Yu. 77
 Gu G.D..... 50
 Guan Xi-Wen..... 85
 Gubanov V.A..... 40
 Gubin S.P..... 96
 Gubkin A.F. 41, 119
 Gudim I.A...83, 100, 108, 109, 120
 Gudimenko E.S. 88
 GudimI.A.....70
 Gudkov V.V. 105
 Gudkova A. 63, 65
 Gudkova S.A.....91, 122
 Gudoshnikov S.A. 86
 Guidi T. 86
 Guissart S. 97
 Guk M.....44
 Gul Y. 114
 Gulyaev M.V.....65
 Gumarov A.I.....54
 Gumarov G.G. 53
 Gumerov A.M. 87
 Gunbin A.V. 92
 Gundermann Th.....100
 Gunderov D. 44
 Guo P.....44
 Gupta A. 82
 Guryev V.V. 68, 69
 Gusakova D. 60
 Gusev N.S.....96, 114
 Gusev S.A.....114
 Guteneva N.V.....44
 Gutfleisch O.30, 32, 44, 56, 94
 Guzowska U. 124
 Gvozdevskaya V.A.....69
 Gyulasaryan H. 73
-
- H**
- Hadjipanayis G.C. 30
 Hagiwara M.....52, 61
 Haider K. 41
 Hajdeu-Chicarosh E. 44
 Hakioğlu T.....97
 Hamadeh A.....71
 Hansen T.....117
 Hao Wu.....96
 Harikrishnan S.N. 107
 Harin E.V.....40, 90
 Hartmann R. 29
 Hashim H.....48
 Hašková V.....98
 Hatano S. 84
 Hauet T. 95
 Hautle P. 77
 He G. 98
 He M.....116
 Hehn M.....102

Heim D.M.	42	Illés E.	51
Heinemann A.	32	Ilyina E.A.	42
Hellsvik J.	83	Ilyn M.	82
Helm M.	28, 45	Ilyushin A.S.	65
Henne B.	46	Imamura H.	56
Henriques A.B.	31	Inaba N.	41
Hentschel H.	45	Inishev A.A.	87
Hernandez J.M.	42	Inkson B.J.	74, 122
Herrojo C.	32	Inoue M.	38, 40, 43, 75
Hillebrands B.	83	Inyushkin A.V.	61
Hirazawa H.	65	Ioni Yu.V.	96
Hirohata A.	56	Ipatov M.	72, 88
Hirosawa S.	30, 112	Irkhin V.Yu.	28, 33, 47, 78, 110
Hjörvarsson B.	47	Irvine W.T.M.	76
Hoai Nguyen T. L.	28	Isaenko L.I.	91
Hoffmann A.	75	Isavnin A.G.	40
Holder J.S.	69	Ishibashi T.	43
Honecker D.	77	Ishihara S.	56
Honnecker D.	32	Iskakova L.	64
Horn S.	74, 117	Iskhakov R.S.	50, 51, 53, 78, 87, 91, 116
Horsley S.A.R.	74	Iskhakova R.R.	109
Hou Y.	85	Isobe M.	86
Houzet M.	82	Ispiryani A.G.	48, 63
Hövel H.	31	Iss C.	85
Hriplevets I.	91	Ito W.	43
Hrkac G.	74	Iurov A.S.	35
Hsu H.-S.	50	Iusipova Iu.A.	34
Hsu W.-T.	81	Ivaneyko D.	84
Huai Y.	41	Ivankov O.	64, 115
Huang J.	106	Ivanov A.A.	57, 90
Huang J.C.A.	33, 99	Ivanov A.O.	58, 63, 64, 76
Huckfeldt H.	77	Ivanov B.A.	111
Huong Dang T.	28	Ivanov D.	122
Hüvonen D.	79, 118	Ivanov M.S.	109

I

Iacobescu G.	63, 115	Ivanov V.E.	70
Iakovleva M.	101, 106	Ivanov V.G.	57, 90
Iakubov I.T.	45	Ivanov V.Yu.	100, 108
Ibaev Zh.G.	118	Ivanova A.G.	53
Ibragimova E.M.	54	Ivanova O.	67, 97
Ibragimova M.I.	107	Ivanova T.I.	87
Ichkitidze L.P.	65	Ivantsov R.	97, 107
Idiogo-López F.J.	77	Ivantsov R.D.	50
Ignatchenko V.A.	40, 60	Ivanyukovich M.M.	32
Ignatenko A.N.	110	Ivchenko E.L.	46
Ignatov A.S.	86	Izarova N.	119
Ignatov M.S.	58	Izmozherov I.M.	52
Ignatyeva D.O.	38		
Igoshev P.A.	47		
Ilic S.	82		

J

Jäckl M.	37
Jackson E.	56
Jadzyn J.	100
Jaffrès H.	28
Jain S.	75
Janka O.	105
Jansen M.	49, 51, 88
Janusonis J.	57
Jen S.U.	72
Jeon Y.S.	55
Jiang X.	91
Jiang Yu.	85
Jin X.	28
Johnson D.C.	49, 107
Johnson S.L.	102
Joisten H.	85
Jónsson H.	81
Joumard I.	85
Joyce H.J.	114
Juang J.-Y.	74, 114
Jungfleisch M.B.	75
Juvé V.	43, 57

K

Kabanov V.M.	65
Kabanov Yu.	113
Kabirov Yu.V.	82
Kačmarčík J.	98
Kadowaki K.	60
Kagan M.Yu.	103
Kainuma R.	30, 43
Kakay A.	34, 81
Kalashnikov V.S.	93
Kalashnikova A.M.	102, 106
Kalentyeva I.L.	35
Kalgin A.V.	121
Kalhor S.	60
Kalinikos B.A.	39
Kalinin Yu.E.	33, 36, 39, 50, 51, 52, 53, 54, 82, 122
Kalish A.N.	36, 37, 38
Kalitsov A.	71
Kalitukha I.V.	31
Kalyabin D.V.	75
Kamantsev A.P.	43, 79, 86, 93, 94
Kamarád J.	90
Kamashev A.A.	68, 74

Kameli P.....	93	Kevraletin A.L.	45, 49, 122	Kinane C.J.	57
Kamenev V.I.	104	Kézmárki I.....	114	Kindiak I.L.	35
Kameneva M. Yu.	108	Khabarov K.M.	42	Kirilenko E.P.	50
Kamensky I.Y.	33	Khadra G.....	118	Kirillova S.A.	52, 89
Kamenskiy D.....	102	Khamova T.V.	119	Kirilyuk A.....	81, 102, 113
Kamilov K.I.	66	Khan T.	102	Kirino F.	41
Kampert E.	95	Khandukhanov R.T.....	66	Kiriushchikina S.V.	32
Kamzin A.S.....	37, 54, 85	Khanipov T.F.....	109, 120	Kirman M.	91
Kanomata T.....	30, 43	Khanov L.N.	93	Kirov S.A.....	122
Kantorovich S.S.58, 63, 76, 84, 115		Khapaev M.M.....	73	Kirpan V.V.	61
Kapralov P.O.....	38	Khar'kov A.M.	100	Kirpicheva O.A.	53, 54
Kapranov M.V.	48	Kharitonskii P.V.	52, 66	Kiryanov M.A.	37
Karapetrov G.....	113	Kharkov A.M.	34, 104	Kiryukhantsev-Korneev F.V.90	
Karashtin E.A.....	96	Kharlamova A.M.	48	Kiselev I.A.....	66
Karateev I.A.....	33, 115	Khasanov R.....	102	Kiseleva T.Yu.....	65
Karavaeva N.I.	37	Khaydukov Yu....	74, 117, 118	Kislinkii Yu.V.	74
Karavainikov A.V.....	37, 38	Khivintsev Y.V.....	40, 60, 123	Kislinskii Yu.V.....	98
Karczewski G.....	31, 70	Khizriev K.Sh.	49, 110	Kitaev Yu.E.....	70
Karmenyan A.	66	Khlusov I.A.	78	Kivshar Y.S.	37, 42
Karpasyuk V.K.....	104	Khodos I.I.	96	Kleibert A.	60, 118
Karpenkov A.Yu.	89, 94	Khokhlov N.E.	37, 70	Kleiner R.	97
Karpenkov D.Yu.44, 87, 89, 94		Kholin D.I.....	116	Klenov N.V.	73
Karpenkov M.	44	Kholkin A.L.....	121	Kliava J.....	52, 97
Karpinsky D.V. ...	76, 121, 124	Khomchenko V.A.....	109	Klimin S.A.....	79, 80
Karpov P.I.	58	Khomskii D.I.	56, 57, 114	Klimov A.A.....	33, 99
Karzanov V.V.	45	Khoroshilov A.L.....	54	Klimovskikh I.I.	62
Kashiwagi T.	60	Khovaylo V.V.. 35, 44, 79, 87, 93		Klingeler R.	51, 79
Kassan-Ogly F.A.....	97, 103	Khramova A.E.	70	Klyachko N.L.	67
Kataev V.A.....	89, 90	Khramova O.D.....	62, 105	Knezevic N.....	51
Kataev V.E....	68, 74, 101, 106	Khrebtov A.I.....	31	Knizhnik A.A.	71
Katkova O.S.....	48	Khudorozhkov A.A.	36	Knotko A.V.	104
Kato A.	32	Khvalkovskiy A.V.	41, 96	Knyazev G.A.....	38
Katsnelson M.I.....	47, 114	Kichanov S.E.....	120	Knyazev Yu.V.....	51, 82, 118
Katsuya Y.....	75	Kida T.	52, 61	Knyazeva E.A.....	70
Katsyuba S.A.	110	Kieu X.H.....	43, 94	Kobayashi D.	73
Kaul A.R.	106	Kihara T.....	43	Kobelev A.....	122
Kaustuv M.....	106	Kiiamov A.G.....	54, 82	Kobyakov A.V.....	34
Kawabata S.	82	Kikuchi M.....	98	Kobzev M.M.	64
Kawabe T.	84	Kim C.G.....	44	Koch I.	77
Kazak N.V.....	46, 82, 107, 118	Kim Ch.G.....	48	Kocharian A.	73
Kazakevich I.S.	107	Kim D.	41	Kochervinskii V.V.....	39
Kazantseva N.V.	91, 113	Kim D.K.	113	Kochura A.V.	62, 107
Kazei Z.A.....	108, 118	Kim G.W.	96	Koelle D.	97
Kazin P.E. ...	49, 51, 62, 63, 88	Kim J.-Y.	56	Kögel A.	63
Keimer B.	74, 117	Kim K.W.	44	Kohlbrecher J.	42, 77
Kekalo I.B.	91	Kim S.H.	55	Kohlstedt H.....	97
Keller T.	117	Kim Y.J.....	96	Kokorina L.A.....	67
Kellerman D.G.....	121	Kim Yo.K.	55, 72, 96	Koksharov Yu.A.....	40, 78
Kelly M.J.....	114	Kimata M.....	95	Koledov V.V.39, 43, 78, 79, 86, 93, 94, 122	
Kern C.....	59	Kimel A.V. . 45, 102, 107, 113		Kolesnikov A.G.....	92, 96, 97
Ketov S.V.....	90	Kimura T.....	99	Kolesnikova A.A.....	64

- Kolkov M.I. 105, 120
Kolmychek I.A. 96
Kolodkin D.A. 87, 88
Kolodyazhnaya M.P. 109
Kolotov O.S. 121
Kolovskaya O. 67
Komanický V. 98
Komarov E.N. 92
Komarov R.S. 37
Komlev A.A. 106
Komogortsev S.V. ... 49, 50, 87, 91, 116
Kondou K. 95
Kondrashov A.V. 39, 109
Kondratev O.A. 33
Konev V.V. 68
Kononenko V.V. 68
Konstantinov N.S. 104
Konstantinova E.I. 107
Koo H.-J. 117
Kopcansky P. 100
Kopeliovich D.B. 30
Kopitsa G.P. 89, 119
Koplak O. 29, 45, 92
Koptsik S. 67
Korenev V.L. 31
Korneev V.I. 109
Kornilov A.A. 118
Korobova J.G. 97
Korolev A.F. 32
Korolev A.V. 87, 107, 118
Korolev D.V. 66
Korolev K.G. 51
Koroleva L.I. 124
Korolyov A.V. 53
Korostelin Yu.V. 105
Koroteev Yu.M. 83, 99
Korotin M.A. 72
Korovushkin M.M. 74
Korshunov A.N. ... 86, 118, 120
Korshunov A.S. 109
Kosel J. 85
Koshelev A.V. 50, 79, 93
Koshelev Y.S. 55
Koshkid'ko Yu.S. ... 43, 79, 87, 94, 123
Kosmachev O.A. 51, 111
Kosterov A.A. 52
Kostishyn V.G. 39, 45
Kostyuchenko N.V. 92
Kostyuchenko S. 86
Kosykh T.B. 70
Kosyrev N.N. 54, 97
Kotani Y. 30
Kotelnikova O.A. 32, 46, 85
Kotelyanskii I.M. 112
Kotov L.N. ... 34, 39, 40, 53, 54, 60, 75, 88, 121, 122
Kotov S.A. 92
Kourov N.I. 28, 33
Koutsiumaps A. 59
Kovalenko D.V. 108
Kozabaranov R.V. 61
Kozeeva L.P. 108
Kozhaev M.A. 36, 37, 38
Kozhevnikov A.V. 40, 123
Kozhevnikov S.V. 117
Kozlenko D.P. 120
Kozlov A.G. 48, 92
Kozlyakova E.S. 49
Krakov M.S. 76
Kramarenko E.Yu. 63, 84, 116
Krasikov A.A. 78, 120
Krasnikova Yu. 118
Krasnikova Yu.V. 79
Krasnorussky V.N. 54, 60
Kratochvilova M. 121
Kravchenko Z.F. 104
Kravtsov E.A. 54, 116, 118, 120, 122
Kreines N.M. 28, 116
Krekhno R.V. 89
Kremer R.K. 117
Krinitsina T.P. ... 33, 36, 62, 118
Kritskaya E.A. 66
Krivtsova A.V. 51
Krokhotin A.I. 93
Kronast F. 116
Krug von Nidda H.-A. 117
Kruglov V.S. 68, 69
Kruglyak V.V. 74, 122
KrugvonNidda H.-A. 74
Krukov R.N. 107
Krylov V.I. 72, 119
Ksevevich T.I. 65
Kubli M. 102
Kubota H. 95
Kucheryaev V.V. 92
Kuchin A.G. 87, 90
Kuchin D.S. 93
Kuchko A.N. 74
Kuchugura M.D. 49, 51, 86
Kudakov A.D. 113
Kudasov Yu.B. 61, 109
Kudrevatykh N.V. ... 86, 87, 89, 90, 94
Kudriavstev Yu. 45
Kudrin A.V. 35, 107
Kudryavtsev R.V. 87
Kudryavtsev V.O. 35, 89
Kudyukov E.V. 55
Kugel K.I. 57, 103, 115
Kuhns P.L. 61
Kui Jin 98
Kukovitskii E. 83
Kulakov K.V. 108
Kulatov E.T. 96, 106
Kulbachinskii V.A. 99, 104, 106
Kulesh N.A. 55, 66
Kulikova D.P. 58, 121
Kun'kova Z.E. 105, 115
Kundu S. 83
Kunikin S.A. 63
Kunitsyna E.I. 92
Kunkova Z.E. 106
Kuntsevich A.Yu. 57
Kuo Ch.-N. 69
Kuo P.C. 72
Kuo Y.K. 69
Kupriyanov M.Yu. .42, 68, 69, 73
Kurbakov A.I. 49, 51, 86, 102, 118, 120
Kurbanova D.R. 52, 93, 117
Kurdyukova E.G. 39
Kurichenko V.L. 87
Kurimsky J. 100
Kurkin M.I. 103, 110
Kurlov D.V. 85
Kurlyandskaya G.V. 39, 48, 66, 67, 71, 113
Kurmaev E.Z. 105
Kurnosov V. 61
Kuryavyi V.G. 53
Kushnir V.N. 42
Kusigerski V. 51
Kusmartsev F.V. 98
Kusmartseva A. 98
Kusrayev Yu.G. 31
Kuz'min V.I. 69
Kuz'mina A.S. 105
Kuzemsky A.L. 67
Kuzhir P. 115
Kuzmanovic M. 29
Kuzmenko A.M. 108
Kuzmenko A.P. 107

Kuzmichenko N.	67	Lemke H.	102	Lobachev A.V.	103
Kuzmin D.A.	37, 39	Lemmens P.	61, 101	Lobanov I.S.	81
Kuznetsov A.A.	76	Lendinez S.	75	Lobanova I.I.	71, 114
Kuznetsov A.V.	40	Lenk D.	74, 117	Lobekin V.N.	108
Kuznetsov E.V.	38, 42	Lenz K.	90	Locatelli A.	60
Kuznetsov P.A.	91	Leonidov I.A.	107	Locatelli N.	95
Kuznetsova E.	61	Lepalovskij V.N. 35, 36, 54, 55, 66		Lock E.H.	124
Kuznetsova E.S.	68	Lepeshkin S.V.	60, 69	Logunov M.V.	30, 37, 50
Kuznetsova T.V. ...	54, 70, 119	Leriche R.T.	97	Logvenov G.	69, 74
Kuznetsova Yu.V.	89	Leshchiner D.R.	35, 96	Loidl A.	74
Kuzovnikova L.A.	87	Lesnikov V.P.	45, 105, 107	Lomakin V.	96
Kvach A.A.	53	Leulmi L.	85	Lomonosov A.M.	57, 60
Kvashnin Y.	112	Lev L.L.	35	Lonchakov A.T.	36
Kveglis L.I.	50	Levcenko S.	44	Lopez-Lopez M.	45
Kweon J.J.	61	Levchenko A.V.	33, 40, 54	Lorenzana J.	83
Kytin V.G.	99, 106	Levina V.V.	50	Los A.S.	79, 93
L		Levshin N.L.	113	Lotfollahi Z.	66
La Torre E.	46	Levshunov V.V.	68	Lotin A.A.	62, 105
Lachinov A.N.	48	Li L.	98	Lotnyk D.	98
Ladygina V.P.	51, 78	Li Lain-Jong	81	Lozovik Yu.E.	99
Lagarkov A.N.	45, 46, 72	Li O.A.	49	Lu C.F.	72
Lahabi K.	29	Li T.	31	Lu Li-Syuan.	81
Lahderanta E. 34, 39, 43, 44, 61, 78, 90, 106, 107, 109, 114, 124		Liébana Viñas S.	73	Lu Y.	29
Laherisheth Z.	76	Liersch V.	116	Lue Ch.Sh.	69
Lahova M.B.	113	Likhachev I.A.	68	Lugovikh A.M.	45
Landeros P.	81	Likos C.	115	Lugovskoy N.V.	37
Langbein H.	117	Lileev A.S.	87, 92	Lukoyanov A.V.	33
Langer L.	31	Lim P.B.	43	Lukshina V.A.	71, 91
Langridge S.	57	Lin C.-R.	47, 50, 65	Lukyanenko A.V. ... 34, 53, 67, 117	
Lapine M.	32	Lin J.G.	99	Lukyanenko K.	78
Larin V.S.	89	Lin J.-Y.	74, 114	Luo C.W.	74, 114
Larrañaga A.	36	Lin Y.-C.	66	Luo Y.-S.	44, 67
Lasek M.P.	53, 54	Lin Z.	91, 98	Lupu N.	62, 64
Lau Y.-C.	29	Lin Z.-R.	66	Lutsev L.V.	39, 95
Lau Yong-Chang.	95	Lindner J. 29, 34, 46, 81, 90, 95, 116		Luzanov V.A.	112
Laureti S.	51	Linnik A.I.	104	Lvova G.L.	29, 71
Lavanant M.	29	Lioi D.B.	113	Lyadov N.	50, 82
Lavrov A.N.	108	Lipatov K.A.	89	Lyakhova M.B.	89
Law J.M.	117	Lisunov K.	44	Lyapilin I.I.	95, 114
Le Fèvre P.	95	Lisyansky A.A.	103	Lyaschenko S.A.	97
Lebedev A.V.	58	Litvinenko A.N.	40	Lyashko S.D.	37
Lebedev V.A.	88	Litvinova A.	72	Lyatun I.	93
Lee S.L.	57	Litvinova L.S.	78	Lykhmanova V.I.	62
Legrand W.	81	Liu H.F.	69	Lysenko S.	64
Lei Ch.	44	Liu J.	32	Lysov M.S.	89
Leibner A.	77	Liu L.-C.	66	Lyubimov B.Ya.	86
Leksin P.V.	68, 74	Livache T.	85	Lyubin E.V.	76
Lemette S.	91	Livanovics R.	58	Lyubutin I.S. ... 47, 65, 96, 109, 124	
		Liverts E.	115		
		Lobachev A.	35		

M

- Ma P. 114
Maccariello D. 81
Machon P. 29, 42
Magnitskaya M.V. 58, 69
Magomedov M.A. 54
Mahdavifar S. 73
Mahmoudi M. 73
Maignan A. 102
Majorošová J. 100
Majouga A.G. 65, 67
Makagonov V.A. 52
Makarov A.V. 48
Makarov D. 43, 57, 75
Makarov I.A. 85
Makarov P. 35
Makarov P.A. 34, 60
Makarova E.B. 44
Makarova L.A. 63, 105, 116
Makarova O.L. 120
Makeyev O.G. 44
Makhnev A.A. 33
Maklakov S.A. 45, 72
Maklakov S.S. 45, 72
Maksimochkin V.I. 106
Maksimova E. 52
Maksimova I.K. 33
Maksimova K. 93
Mal'shukov A.G. 74
Malakhovskii A.V. 70
Malinowski G. 102
Malkin B.Z. 54, 83
Maltceva L. 35
Malyshev A.L. 118, 120
Malyshev A.Yu. 66
Malyshev V.D. 37
Malyshkina O.V. 116
Mamedov T.N. 92
Mamonova M.V. 48
Mamsurov I.V. 68
Mamsurova L.G. 68
Manabe A. 32
Mangin S. 29, 71, 102
Manna S. 113
Mannini M. 46
Manukyan A. 73
Marchenko Ya.Yu. 66
Marchenkov V.V. 28, 33, 36, 123
Marchenkova E.B. 33, 123
Marenkin S.F. 31, 62, 107
Maretzki R. 63
Markin Yu.V. 105
Markina M.M. 51, 68, 118
Markov G.P. 65
Markov V.K. 66
Marsh R. 57
Martin C. 102
Martín F. 32
Martin R.W. 70
Martin S. 60
Martinez Banderas A. 85
Martínez de la Fuente J. 77
Martino L. 59
Martyanov O.N. 72
Martynov S.N. 111
Mashera V.S. 86
Mashirov A.V. 43, 79, 86, 93, 94
Mashkovtseva L.S. 91
Maslov D.A. 109
Masyugin A.N. 34
Mata-Contreras J. 32
Matsnev M.E. 108, 109
Matsumoto K. 47
Matsumoto R. 56
Matsushita Y. 75
Mattauch S. 59
Mattheis R. 53, 81
Matthes P. 34
Matveev O.V. 39, 40
Matveeva P.G. 117
Matyunin A.V. 121
Matyunina M.V. 123
Maximova E.N. 67
Maximova O.A. 97, 124
Maximova O.V. 106
Mayboroda I.O. 35
Mazeeva A.K. 91
Mazhitova F.A. 108
Maziewski A. 124
Mazov L.S. 98
Mazur A.S. 54, 104
Mazurkin N.S. 35, 50
Meckenstock R. 32
Medapalli R. 113
Medvedev A.I. 66
Medvedeva I. 65
Medvedeva T.M. 89
Meguro S. 84
Mehmet G. 97
Meijer J.-M. 76
Meilikhov E.Z. 87
Mekhonoshin D.S. 89
Melekh B.T. 106
Melekhin V.V. 44
Melenev P.V. 65
Melnikov A. 75
Melnikov G.Yu. 66
Melnikov N.B. 47, 119
Men'shenin V.V. 100
Men'shov V.N. 62, 99
Ménard G.C. 97
Menditto R. 97
Menendez E. 59
Menshchikova T.K. 107
Menshchikova T.V. 83, 99
Menshikh I.A. 97
Menshov S.A. 86
Men'shov V.N. 83
Menteş T.O. 60
Mentink J.H. 83
Menushenkov A.P. 57, 90
Menushenkov V.P. 87, 88, 89, 90
Merkulov D.I. 63, 104
Merkulova A.V. 80
Merzlikin A.M. 37, 38, 42
Mesilov V.V. 119
Metelkina K.K. 39
Metlov L.S. 78
Mettus D. 77
Meyer J.S. 82
Meyerheim H.L. 75
Michels A. 41, 42, 77
Michor H. 102
Mihashenok N.V. 120
Mikhailov A.P. 41, 96
Mikhailova T.V. 37
Mikhalev K.N. 107, 110
Mikhalevsky V.A. 28, 62, 105, 107
Mikhalitsyna E.A. 89, 90
Mikhaylovskiy R.V. 58
Mikheykin A.S. 105
Mikhnevich E.A. 31
Miki H. 93
Mill B.V. 100, 118
Milosevic I. 31
Milyaev M.A. 33, 36, 62, 70, 77, 118
Minin A.S. 66, 67, 96
Minina E.S. 84, 115
Mironov V.L. 88, 123

Mironov V.S.....	116	Moskalev V.N.....	90	Nalbandyan V.B.	49, 51, 86
Miroshkina O.N.	94	Moskvin A.S. 47, 68, 107, 111		Nalench Y.A.....	65
Mirzakhanyan A.....	73	Moskvin E.V.....	84	Nalench Yu.A.....	67
Mischenko I.N.....	73	Mosoyan K.S.	111	Naletova V.A.....	64, 76
Mishina E.D.	109	Mostovshchikova E.V. 96, 105		Nam D.Y.	55
Miskiv A.	105	Motte L.	31	Nasu J.	56
Mistonov A.A.....	49, 117	Moulin J.	91	Naud C.....	85
Mita C.	33, 106	Moutafis C.	81	Nauhatsky I.....	52
Mita Y.	119	Mryasov O.	71	Naumov S.V.	33, 119
Mitin D.M.	124	Mudryi A.V.	70	Naumova L.I.....	33, 62
Mitrofanova E.S.....	88	Muduli P.	95	Naupa A.R.....	31
Mitsiuk V.I.....	93	Muehlbauer S.....	77	Navascuez M.	77
Miyake A.....	30, 43	Muftakhutdinov A.R.....	47	Naydenov P.N.	43
Miyanaga T.	94	Mukhamedov B.O.	47, 87	Nazarenko I.I.....	80
Miyatake Y.....	84	Mukhamedshin I.R.47, 102, 106		Nazarov V.N.	121
Moewes A.	105	Mukhin A.A.....	100, 108, 117	Nechaev I.A.....	83
Mogilenec Yu.....	52	Mukhin S.I.	58	Nefedkin N.E.....	67
Mogilnikov P.S.	91	Mukhuchev A.A.	93	Nefedov S.G.	106
Mohammad Ali Zadeh T....	73	Müller C.....	74, 117	Nekhaeva E.I.	104
Mohd A.S.....	59	Müller D.	31	Nekhoroshkova Yu.E.	64
Mohseni K.....	75	Mulyukov R.R.	93	Nekludova P.A.	57
Moiseev A.A.	35, 39, 89	Mumdzhi I.E.....	54	Nekrasov M.A.	35
Moiseev K.D.	45	Münzenberg M.	113	Nematov M.G.....	55, 87, 89
Mokhov E.N.....	61	Muradimova L.	88	Nemirova V.A.	35
Molchanova A.D.....	102	Muravyev-Smirnov S.S.	89	Nemkovski K.....	77
Möller A.....	79	Murphy B.A.....	56	Nemtsev I.V.....	87, 91
Molnar G.....	70	Murtazaev A.K.49, 52, 54, 111, 117, 118		Nepochatykh Yu.....	39, 122
Molodtsov S.L.....	46	Murtazaev K.Sh.	117	Neshev D.N.	37, 42
Molokeev M.N.....	104	Murtazin R.R.	121	Nesmeyanov M.S.	78
Molokeev M.S.....	104, 124	Murzaliyev B.	47	Nesterov A.I.	111
Montaigne F.	95	Murzina T.V.	43, 96	Netesova N.P.....	68
Montoya S.A.	113	Musabirov I.I.	93	Nevedomskii V.V.....	31
Morari R.....	74, 117	Mushenok F.B. ...	74, 117, 122	Nevedomsky V.N.....	45
Morchenko A.T. 39, 45, 87, 89		Mushnikov N.V.	71, 87, 88	Ney A.	46
Morcrette M.....	85	Musorin A.I.	37, 38, 42	Ney V.	46
Moreau-Luchaire C.....	81	Myagkov V.G.	118	Neznakhin D.S.....	87
Morel R.....	85	Mysik A.A.	66	Nguyen T.N.....	36
Moreno Antolín E.	77	Myslitskaya N.M.	49	Nguyen H.H.....	43
Morgun L.A.	57, 104			Nguyen H.T.....	41
Morgunov R.B. 29, 45, 71, 91, 92				Nguyen Hai Yen.....	43, 86, 94
Morimoto R.....	38			Nguyen Huy Dan.....	43, 86, 94
Moroslip A.E.....	92			Nguyen M.A.....	43
Morosov A.I.....	103			Nguyen Mau Lam.....	86
Morozkin A.V.	123			Nguyen Thi Mai	94
Morozov A.S.....	124			Nguyen Van Duong.....	86
Morozov I.V.....	80, 107			Nicolaev B.P.....	66
Morozova M.A.....	39, 40			Nicolazzi W.....	70
Morozova N.V.	89			Nikiforov A.E.....	57
Moshkina E.M.47, 93, 102, 105				Nikiforov I.V.....	76
Moshnikov V.A.....	124			Nikiforov V.N.	78
Moskalev M.E.....	36			Nikitin A.A.....	83
				Nikitin Al.A.....	109

N

Naboko A.S.	60
Nadzharyan T.A.....	63
Nagakubo Y.....	43
Nagasako M.	30
Nagashima A.	30
Naka M.	56
Nakamura M.	41
Nakamura T.	30
Nakamura Y.....	38, 40, 43, 75
Nakatsuji S.....	95

Nikitin An.A.....	109	Odintsov S.A.	60	Pailloux S.L.....	78
Nikitin M.P.	44, 65, 85	Odintsov V.I.	86	Paixão J.A.....	109
Nikitin N.P.	54	Ogloblichev V.V. 51, 110, 117		Pal B.	72, 96
Nikitin P.I.....	44, 65, 85	Ognev A.V.. 55, 72, 92, 96, 97		Palmero E.M.....	55
Nikitin S.A.	87, 93, 94, 123	Ogneva M.S.	91	Palonen H.....	47
Nikitin S.I.....	37, 54	Ohtake M.	41	Palstra T.T.M.....	114
Nikitin V.	41	Ohtani T.	98	Pamyatnykh E.A.....	35
Nikitov S.A.30, 37, 40, 50, 60, 72, 75, 96, 97, 99, 122, 124		Ohtsuka M.	93	Pamyatnykh L.A.....	53, 89
Nikitovskaia E.A.....	34	Okazaki H.	30	Pamyatnykh S.E.	89
Nikoladze G.M.....	121	Okorokov M.S.	95	Panaetov V.P.	52
Nikolaev A.N.	120	Okulov V.I.	35, 36, 45	Panasevich A.M.....	100
Nikolaev A.V.	69, 70	Okulova K.A.....	36	Panchenko V.Ya.....	62
Nikolaev S.N.....	28, 82	Ollefs K.....	32, 46	Pandey P.....	28
Nikolaev S.V.....	69, 111	Ollivier J.	86	Pandey S.....	43
Nikolaeva E.P.....	70, 121	Omelyanchik A.S.. 49, 51, 116		Panina L.V..39, 45, 48, 55, 87, 89, 122	
Nikulicheva T.B.....	34	Omirov A.	84	Pankratov N.Yu.	93, 94
Nikulin A.Yu.....	51	Omori T.	30	Pankrats A.	82
Nikulin Yu.	90	Ono K.	32, 42	Pankrats A.I.	105, 120
Nishimoto S.	101	Ono T.	56	Panov K.	88
Nitin K.	75	Ooki K.	43	Panov M.F.	66
Niu Q.....	28	Oprica L.	62	Panov Yu.D. ..47, 68, 110, 111	
Niyazov R.A.....	37	Orechov A.S.	104	Panyaev I.S.....	70
Nižňanský D.....	77	Orlov A.V.	44, 85	Panysheva T.Yu.....	31
Nogués J.....	59	Orlov V.A.	82	Paradezhenko G.V.....	47, 119
Nojiri H.	101	Orlov Yu.S.....	107, 111	Paramonov E.I.	64
Nolting F.	118	Orlova N.B.....	103, 110	Paredes F.	32
Nori F.	97, 103, 115	Ortega J.E.	82	Parfenov O.E.	33, 106
Norina S.	66	Ortiz G.....	85	Park J.G.	75, 105, 121
Nosan M.M.	49	Osipov A.V.....	45, 60, 121	Parkhomenko V.D.	121
Nosov A.P.....	101, 105, 122	Osipov M.I.....	64	Parkin S.	28
Novak E.....	63	Osipov S.V.....	39	Parshina L.S.....	62, 105
Novakova A.A.	50, 92	Osokin S.A.....	75	Pashkevich Yu.....	61
Novikov I.A.	37	Ostrizhnyaya M.A.	87	Pashkevich Yu.G.....	102
Novitskii N.N.....	95, 123	Ostrovskaya N.	34	Pasternak D.G.....	122
Novodvorsky O.A. .28, 62, 96, 105, 107		Otani Y.	95	Pastushenkov Yu.G.	94, 113
Novosad V.....	75	Otrokov M.M.....	83, 99	Patrakov E.I.	119
Novoselova Iu.	72	Ovcharov A.V.....	68	Patrin G.S.	34, 48, 82, 118
Nozdrin Yu.N.....	30	Ovchenkov E.A.	123	Patrin K.G.....	34, 82
Nugumanov A.G.....	55, 75	Ovchenkov Y.A.	80, 99	Paudel T.R.	75
Núñez A.	32	Ovchenkova I.A.....	123	Paulovicova K.	100
Nur-E-Alam M.....	38	Ovchinnikov S.G. . 34, 46, 53, 54, 69, 82, 85, 107, 111, 117, 118		Pavlov D.A.	107
Nurgazizov N.I.....	109, 120	Oveshnikov L.N.....	99, 104	Pavlov V.V.	31, 106
O		Ovsyanikov A.K.	117	Pavlovskiy N.	105
Obermeier G.....	74, 117	Ovsyannikov G.A. . 33, 69, 74, 98, 104		Pavlukhina O.O.	94
Obukhov A.E.	70	Ozcan S.....	71	Pearson J.....	75
Obukhov S.A.....	31	P		Peddis D.	51
Odagiri Y.....	84	Padmanabhan P.....	114	Pelevina D.A.	64
Odenbach S.	76, 100, 101			Pereiro M.....	112
				Perepyolkina A.V.	86
				Perevedentseva E.....	66
				Perevozchikova Yu.A....	28, 33

- Perez J.E..... 85
 Perez R. 92, 113
 Perlo P. 35
 Perminov A.S. 87
 Pernod P. 33, 99
 Perov D.V. 118
 Perov N.S. ... 50, 63, 66, 67, 72,
 92, 105, 116
 Perova N.N. 122
 Perunov I. 49
 Perzynski R. 59
 Pestun A.E. 104
 Petit-Watelot S. 29
 Petrakovskaja E. 97
 Petrakovskii G.A. 104
 Petrashov V.T. 57
 Petrenko A.A. 51
 Petrenko O.A. 52, 54, 61
 Petrov A.V. 37
 Petrov D.A. 50, 72, 121
 Petrov M.I. 69
 Petrov P.N. 99
 Petrov P.S. 32, 46
 Petrov R.V. 61
 Petrov V.M. 108, 121
 Petrov Yu.V. 114
 Petrova A.E. 120
 Petrzhik A.M. 69, 74, 98
 Petukhov A.V. 76
 Petukhov D.A. 32
 Petukhov V.Yu. 53
 Peyre V. 59
 Pham Thi Thanh..... 43, 86, 94
 Philbin T.J. 74
 Philipse A.P. 76
 Philoppov V.V. 122
 Pierre V.C. 78
 Pietsch T. 29
 Pigalskiy K. 69
 Pikalov A.M. 121
 Pimenov A. 83, 108
 Pinkas V.V. 92
 Piovano A. 119
 Pirogov A.N. 88, 121
 Pirogov Yu.A. 65
 Pisarev R.V. 38, 102
 Piskorskii V.P. 92
 Piskunov Yu.V. 51, 110, 117
 Pismenova N.E. 101
 Pitirimova E.A. 107
 Plaksin P.S. 37, 39
 Platonov S.P. 87, 90
 Platonov V.V. 109
 Platunov M.S. 46, 82, 105, 107,
 118
 Plekhanova D.D. 109, 116
 Pleshchev V.G. 52
 Pleshev D.A. 121, 122
 Plokhov D.I. 110
 Pochekutov M.A. 68
 Podchezertsev S.Yu. ... 86, 118,
 120
 Podgornaya S.V. 48
 Podgornyykh S.M. 36
 Podolskii V.V. 45
 Podorozhnyak S.A. 48
 Pogrebna A. 45
 Poimanov V.D. 39, 74, 122
 Pokatilov V.S. 108, 109
 Pokholok K.V. 72
 Pokrovsky L.D. 91
 Poleshchikov S.M. 121, 122
 Politaev V.V. 51
 Politova G.A. .. 87, 92, 94, 113
 Polozov V.I. 72
 Polukhin D.S. 40
 Polunin V.M. 65, 76
 Polushkin N.I. 116
 Polyakov A. 75
 Polyakov P.A. 121
 Polyakov P.I. 47
 Polyanskiy V.A. 65
 Polzikova N.I. 112
 Ponomarev D.A. 77
 Ponomareva A.V. ... 47, 87, 93
 Ponomareva T.Y. 97
 Poperechny I.S. 97
 Popescu L. 62
 Popkov A.F. 35, 36
 Popkov S. 105
 Popkov S.I. 78, 120
 Popov A.G. 86, 88, 91
 Popov A.I. 108, 110
 Popov V.V. ... 36, 37, 106, 118
 Popov Yu.F. 108
 Popova A.V. 86
 Popova E.A. 79
 Popova M.N. 79, 83, 102
 Porer M. 102
 Poryadsky A.A. 121
 Potapov A.P. 91
 Poteryaev A.I. 114
 Potkina M.N. 81
 Potzger K. 71, 90, 116
 Povarov K.Yu. 79, 86
 Prabhakara K.H. 102
 Premkumar 91
 Preobrazhensky V.L. 33, 99, 104
 Presniakov I.A. 49, 50, 107
 Presnov D.E. 99
 Presnyakov M.Yu. 82
 Proglyado V.V. 33, 62, 116,
 118, 120
 Prokopov A.R. 37, 38
 Proshin Yu.N. 37, 67, 68, 98
 Proshkin A.I. 97, 103
 Proskurnina N.V. 87
 Prosnikov M.A. 38, 102
 Prosvirin I.P. 91
 Protasov A.V. 86, 88
 Prozorova L.A. 50
 Prudkoglyad V.A. 99
 Prudnikov P.V. 47, 55, 73, 110
 Prudnikov V.N. 32, 61, 92
 Prudnikov V.V. 47, 48, 55
 Prudnikova M.V. 61
 Pryadun V. 61
 Pryahina V. 54
 Pschenichnyi K.A. 32
 Pshenichnikov A.F. 58, 76
 Pudalov V.M. 57
 Puddy R.K. 114
 Pudonin F.A. 48
 Pugach N.G. 42, 68, 69
 Pugach S. 42
 Pugach V.S. 66
 Pukhov A.A. 67, 103
 Purtov A.N. 55
 Puscasu E. 62
 Pushkina M.M. 35
 Pustovalov E.V. 48
 Pyanzina E. 63, 65
 Pyataev A.V. 53, 116
 Pyataikin I.I. 112
 Pyatakov A.P. 58, 59, 66, 70,
 109, 121
-
- Q**
 Qamar A. 105
 Quang T.D. 28
 Quang V.M. 79
 Quay C.H. 29
 Querlioz D. 95
 Quessab Y. 113
 Quetz A. 43

Quindeau A. 75

R

Raabe J. 81
 Radkevich A.A. 42
 Radkovskaya A.A. 32, 46
 Radulov I.A. 94
 Radzieowski M. 105
 Raevskiy A.O. 112
 Rafalskii A.I. 89
 Rafalskiy A.V. 90
 Raganyan G.V. 51
 Rahmonov I.R. 95
 Raikher Yu.L. 63, 64, 65, 97,
 100, 101, 115
 Rajnak M. 100
 Rakhmanov A.L. 97, 103, 111,
 115
 Ralchenko V.G. 61
 Ramasamy K. 82
 Ramasubramanian L. 34
 Ramazanov M.K. 52, 111, 117
 Ramón E. 32
 Rasing Th. 29, 45, 102, 113
 Rautskii M.V. 34, 49, 53, 117
 Razdolski I. 43, 57
 Razumnaya A.G. 105
 Reddy V. 44
 Regnault L.-P. 117
 Reis M.S. 79
 Ren Y. 31
 Repina N.M. 54
 Reser B.I. 47, 119
 Reyes A.P. 61
 Reynolds N. 86
 Reyren N. 81
 Reznikov M. 57
 Richter J. 101
 Richter R. 63
 Rigmant M.B. 91
 Ril. A.I. 31
 Rinkevich A.B. 118
 Rioult M. 60
 Ritchie D.A. 114
 Ritter C. 119
 Rode K. 29, 95
 Rodina A.V. 70
 Rodionov I.D. 78, 92
 Rodionov V.V. 94
 Rodionov Ya.I. 103

Rodionova V.V. 38, 48, 49, 51,
 72, 92, 93, 94, 95, 116, 123
 Roditchev D. 97
 Rodriguez-Carvajal J. 86
 Rogachev A.V. 115
 Rogacki K. 87, 94
 Rogalev A. 32, 46, 82, 90, 124
 Rogov A.M. 54
 Roig A. 59
 Roldan-Molina A. 81
 Romanenko D.V. 39, 40
 Romanova O.B. 34, 104
 Romanovskiy D.E. 47
 Romashev L.N. 77
 Romeis D. 101
 Romera M. 95
 Romodina M.N. 76
 Ronti M. 76
 Rosen J. 72
 Roslyakov I.V. 88
 Rosner H. 101
 Ross C.A. 40, 75, 112
 Rossi A. 79
 Rossi L. 76
 Rößler U. 101
 Roussigné Y. 81
 Rovigatti L. 76
 Roy R.K. 91
 Rozanov K.N. .. 45, 46, 60, 72,
 90, 121
 Rozhansky I.V. 44, 114
 Rozhkov A.V. 97, 103, 111, 115
 Rozhkov D. 63
 Rudkovskaya A.V. 57
 Rudnev I.A. 90
 Rudolf M. 29
 Rudoy Yu.G. 85
 Rüffer R. 77, 120
 Rukovishnikov A.I. 105, 115
 Runov V.V. 89, 102
 Rusakov V.S. 108, 109
 Rusakov V.V. 65, 115
 Rushforth A.W. 57
 Rusinov I.P. 99
 Russier V. 31
 Russkikh I.V. 120
 Ruzhickiy V.I. 73
 Ryabtsev K.S. 65
 Ryabukhina M.V. 33, 116, 118,
 120, 122
 Ryapolov P.A. 65, 76
 Ryasny G.K. 120

Rybakov F. 110
 Rybakov Yu.P. 103
 Rybkina A.A. 62
 Rylkov V.V. 28, 51, 61, 82, 96
 Ryzhanova N. 35
 Ryzhikov I.A. 45, 72
 Ryzhkov A.V. 64
 Ryzhkova G.S. 51
 Ryzhov V.A. 66, 102

S

Sablina K. 105
 Sablina K.A. 120
 Sabon P. 85
 Saboungi M.-L. 31
 Sacanna S. 76
 Sacarescu L. 62
 Sadchikov Yu.V. 120
 Sadovnikov A.V. 40, 60, 72, 75,
 96, 97, 122, 124
 Sadykov A.F. 51, 110
 Saerbeck T. 77
 Safarov I.M. 93
 Safarov V.I. 28
 Safin A.R. 29, 33, 35, 48, 61
 Safiulina I.A. 119
 Safonchik M.O. 42
 Safronov A.P. 31, 44, 66, 67, 89
 Saha-Dasgupta T. 85
 Sai R. 45
 Saikin S.K. 37
 Saintavit Ph. 46
 Saito K. 32, 42
 Saito S. 43, 84
 Sakharov V.K. 40, 60, 123
 Sakhin V. 83
 Sakhratov Yu.A. 61
 Sakuma N. 32
 Sakurai H. 86
 Sala A. 60
 Salakhitdinov A.N. 54
 Salakhitdinova M.K. 54
 Salakhova R.T. 66
 Salamatina A.V. 69, 120
 Salamatina D.A. 69, 120
 Salamon S. 46
 Salasyuk A.S. 57
 Salem M.M. 55, 87, 89
 Saletsky A.M. 48, 92, 96
 Salewski M. 31
 Salikhov R. 72, 73

Salimov R.K.....	90	Schaub S.	115	Severin P.A.....	40
Salmon L.	70	Scheer E.	29	Shadrin A.V.....	69, 98
Samardak A.S... 48, 55, 72, 92, 96, 97		Schefer J.	119	Shadrina G.V.....	50
Samardak A.Yu.....	55, 72	Schegolev A.E.	73	Shah W.H.	124
Samarin A.N.....	39, 40, 106	Scherbakov A.V.....	57	Shaikhulov T.A.	104
Samarin N.A.....	33	Scherbakov G.V.....	92	Shaikhutdinov K.A.....	72
Samatov O.M.	66, 67	Schetinin I.V.	89	Shaimanov A.N.	42
Samiepour M.....	56	Schiller F.....	82	Shakhov M.A.....	34, 44, 107
Samoilovich M.I.....	118	Schmidiger D.....	79, 86	Shakhunov V.A.	104
Samoshkina Yu.E.....	49, 124	Schmitz D.	119	Shakirov M.A.	37
Sampath V.....	39, 93	Schmitz-Antoniak C. ..	46, 119	Shakirzyanov R.I.....	39
Samsonenko Yu.B.....	31	Schneider T.....	81	Shalygin A.N.....	46, 58
Samuely P.	98	Schöppner C.....	32	Shalygina E.E.....	48, 109
Samuely T.	98	Schreck F.	85	Shalygina E.E.	58
Samusev I.G.....	49	Schröder C.	31	Shamonin M.	84
Sanchez P.A.	63, 84	Schultheiss K.	81	Shamonina E.....	46
Sangaa D.	65	Schulz A.	117	Shankar A.	31
Sannikov D.G.....	70	Schulz S.E.....	34	Shao D.-F.....	75
Sanyal B.	46	Schumann M.....	101	Shapaeva T.B.....	102
Sapega V.F.....	31	Sciortino F.....	76	Shapiro A.Ya.	52, 61
Saphiannikova M.	84, 101	Seisyan R.P.	70	Shaposhnikov A.N.....	37
Saplev A.F.....	121	Sekatskii S.K.....	38	Sharaevskaia A.Yu.	122
Sapozhnikov M.V.	114, 123	Sekiguchi K.	40, 75	Sharaevskii E.	75
Sarsari I.	93	Seletskiy D.....	43, 57	Sharaevskii Yu.P.	39, 40, 60, 122, 124
Sarychev M.N.	105	Selezneva N.V. .	41, 52, 88, 90	Sharafullin I.F.....	75, 108
Satchell N.....	57	Seleznyova K.	52	Sharma A.....	44
Sathish C.I.....	105	Selishchev S.V.....	65	Sharoyan E.	73
Sato M.	45, 73	Selivanov Yu.G.....	99	Shashkov I.V.	50
Satskiy A.V.	32	Semeno A.V.....	39, 40, 60	Shatrova N.....	50
Sauerzopf F.	123	Semenov A.A.....	109	Shavkin S.V.....	68, 69
Savchenko A.G.65, 67, 87, 88, 89, 90		Semenov A.G.....	42	Shavrov V.G.37, 38, 39, 78, 79, 93, 120, 121, 122, 123	
Savchenko A.S.....	38, 120	Semenov S.V.	68, 69	Shayhutdinov K.....	105
Savchenko E.S.	88	Semenov V.S.	62	Shcaihulov T.A.....	33
Savchenko T.M.	118	Semenova E.M.....	89, 113	Shcheglov V.	35
Savel'ev S.	82	Semenova O.....	53	Shcheglov V.I. 34, 39, 60, 121, 122, 123	
Saveliev D.V.....	109, 116	Semensmeyer K.	54	Shchelkunov N.N.	76
Savilov S.V.	101	Semirov A.V.....	35, 39, 89	Shcherbakov M.R.....	37
Savin P.A.	35	Semisalova A.S.....	71, 90	Shcherbinin S.V.....	113
Savitsky A.O.....	28, 96, 116	Semkin M.A.....	121	Shchetinin I.V....	65, 87, 88, 90
Savochkin I.V.....	37	Sengupta K.	95	Sheftel E.N.	40, 90
Savoini M.....	102	Senina V.A.....	118	Shein G.A.	38
Saxena S.S.....	58	Senyshyn A.....	49, 86, 117	Shein I.R.....	104
Saydirasulov N.....	54	Seong-Cho Y.	43	Sheldeshova E.V.	76
Saykin D.R.	103	Serdobintsev A.A.....	124	Shelly C.	57
Sboychakov A.O. . 57, 97, 103, 111, 115		Serebryakova O.N.	53	Shemukhin A.....	54
Schaedler M.	107	Seredina M.A.....	35, 93	Shen J.	95
Schaefer S.	60	Serga A.A.	83	Shen S.-Q.....	81
Schafer S.	41	Sergeev A.S.....	58	Sherbakov V.A.	33
Schaller R.D.....	113	Sergeev A.V.....	69	Sherman A.....	47
		Sergeicheva E.G.	50		
		Sergienko E.S.	52, 66		
		Seryotkin Yu.V.....	105		

Sherokalova E.M.....	41, 52, 88	Shuvaev A.....	108	Slyngo V.E.	104
Shershevskii I.A.....	78	Shuvaeva E.	91	Smarzhenskaya A.I.....	94
Sherstnev I.A.....	48	Shuyskyy A.A.....	37	Smekhova A.	46, 119
Sherstobitova E.A.	119	Shvanskaya L.V.....	49, 51	Smelova E.M.....	48, 96
Sheshukova S.E.....	60	Shvartsman V.V.....	102	Smirnov A.I.	52, 61
Shestakov A.V.	107	Shvets I.A.	62, 83	Smirnov A.N.	38, 102
Shevchenko E.V.....	106	Sichkar D.A.	44	Smirnov A.V.	123
Shevelkov A.V.....	107	Sidorenko A.S.....	42, 74, 117	Smirnov E.....	41
Shevyakov D.I.....	96	Sidorov A.V.....	101	Smirnov G.V.	77
Shevyrtalov S.	72, 93	Sidorov V.A.....	120	Smirnov V.V.	86
Shikin A.M.....	62	Siebert E.	76	Smirnova E.A.	93
Shilova O.A.....	119	Siegfried S.-A.	32	Smirnova E.S.....	109
Shimada K.....	40	Sigov A.S....	99, 103, 108, 109	Smith C.G.....	114
Shimizu T.....	41	Silaev M.A.....	98	Smolnikov A.G.....	51, 110
Shipunova V.O.....	67	Silibin M.V.	76, 124	Smoluk L.T.....	67
Shirakashi Z.	43	Silkin I.M.....	83	Smolyarova T.E.....	53, 117
Shirasaki K.....	71	Sim H.	121	Smyslov R.Yu.....	89
Shirshikov S.O.	88	Simon P.....	97	Snegirev V.V.....	108
Shiryaev A.O.....	46, 121	Simonov M.N.	52	Sobolev A.V.....	49, 50, 107
Shishkin D.A.....	91, 94, 113	Simonova E.V.....	66, 67	Sobolev N.A.	36
Shishkin I.S.....	49, 84, 117	Simsek T.	71	Soboleva E.A.....	90, 124
Shishkov V.Yu.....	103	Singh A.	29	Sofronova S.N.	80
Shitsevalova N.Yu. 33, 40, 54, 60		Singh S.P.	48	Sokolov A.....	67, 124
Shivashankar S.A.....	45	Siryuk Ju.A.	86	Sokolov A.E.	119
Shiyan Ya.G.....	82	Sitnikov A.V.33, 36, 39, 50, 51, 52, 53, 54, 61, 82, 122		Sokolov A.S.....	38
Shkar V.....	39, 122	Sitnikov I.I.	48	Sokolov S.V.....	57
Shklyar T.F.	44	Sitnikov M.N.	100, 104	Sokolov S.Yu.....	44
Shlyakhtich M.A.	110	Skidanov V.	34	Sokolov V.....	119
Shlyakhtina A.....	106	Skipetrov E.P.	104	Sokolov V.V.....	64, 70
Shlyapnikov G.V.....	85	Skipetrova L.A.....	104	Sokolovskaya Y.A.....	123
Shmatov G.A.....	89	Skirdkov P.N. ..	35, 36, 62, 99, 112	Sokolovskiy V.V. ...	44, 78, 94, 123
Shmyreva A.A.....	54	Skokov K.P.30, 44, 89, 94, 113		Soldatov T.A.	52, 61, 83
Shneider A.G.....	105	Skomarovsky V.S.	86	Solonetsky R.V.....	108, 109
Shneyder E.I.....	85	Skorikov N.A.....	72	Solov'yov S.V.	109
Shoji T.....	32	Skornyakov S.L.	114	Solov'eva A.Yu.....	96
Shore D.	44, 78	Skorohodov E.V.	78, 123	Soloviev I.I.	73
Shorikov A.O.	114	Skourski Y.....	99	Soloviev D.....	63, 64, 115
Shorokhov A.S.....	37, 42	Skourski Yu.	108	Solovyov L.A.	107
Shpetnyy I.	48	Skulkina N.A.	88, 91	Solovyova A.Yu.	64
Shreder E.I.	33	Skumryev V.....	108	Soltani M.R.	73
Shtil A.A.	59	Skvortsov M.	34, 83	Song C.-Y.....	66
Shugaev M.V.	116	Sladkov K.D.	96	Song S.....	102
Shukaev I.L.	51	Slavin A.	81	Sorokin V.V.....	84
Shukla A.....	75	Slawska-Waniewska A.	124	Sorokina S.	41, 96
Shukrinov Yu.M.....	95	Slepchenko G.B.	78	Sosin S.S.....	50
Shul'ga N.V.	40	Sleptsova A.E.	62, 63, 88	Sousa R.C.....	36, 41, 112
Shulenina A.V.....	77	Slivina E.	114	Spasova M.	67, 72, 73
Shulyatev D.A.....	105	Sluchanko N.E. 33, 40, 54, 60, 114		Spichkin Y.I.....	30
Shumann J.....	68, 74	Sluka V.	81	Spillecke L.....	101
Shustin M.S.....	97			Spirin A.V.	30
Shustov V.O.....	33			Spitzer F.	70

- Spivak Y.M. 124
 Springholz G. 31
 Srtokov V.N. 35
 Stadler B.J.H. 78
 Stadler S. 43
 Stalmakhov A.V. 40
 Stamenov P.S. 29, 95
 Stan C. 64, 92
 Stannarius R. 76
 Staňo M. 60
 Starchikov S.S. 47, 65, 96
 Starichenko D. 122
 Starodubtsev Yu.N. 89
 Starostenko S.N. 45, 46, 121
 Stashkevich A. 81
 Staub U. 102
 Stavrias N. 107
 Stebliy M.E. 92, 96, 97
 Steinke N.-J. 77
 Steitz R. 59
 Stepanov E.A. 114
 Stepanov G.V. 63, 64, 100, 101
 Stepanov S.V. 36
 Stepanov V.I. 76
 Stepanova E.A. 66, 88
 Stognei O.V. 33, 36, 61
 Stognij A.I. 40, 43, 50, 60, 95, 116, 122, 123, 124
 Stolbov O.V. 63, 100, 101
 Stolpe M. 77
 Stolyar S.V. 51, 53, 78
 Storchak V.G. 33, 106, 115
 Storozhenko A.M. 76
 Storozhenko P.A. 64, 101
 Strelkov N. 35, 112
 Streltsov S.V. 57, 105, 114
 Stremoukhov P.A. 29
 Strokov V.N. 31
 Strugatsky M. 52, 113
 Strydom A.M. 107
 Stupakiewicz A. 30
 Sturza M.-I. 101
 Subbotin I.M. 65
 Sukhorukov Yu.P. 45, 70, 101, 105, 107, 124
 Sukhorukova O.S. 38, 120
 Sultan-Zade T.T. 39
 Sun C. 31
 Surdin O.M. 109
 Suresh K.G. 33
 Sürgers C. 29
 Suzuki D. 41
 Svalov A.V. 35, 36, 39, 48, 54, 55, 71
 Svechkina N. 119
 Svetlichny V.A. 50, 67
 Sviridova T.A. 104
 Svistov L.E. 61, 83
 Sylgacheva D.A. 36, 37
 Syr'ev N.E. 45, 49, 122
 Syromyatnikov A.V. 49, 85
 Syzdykova A.B. 93
 Szabó P. 98
 Szyjka Th. 46
 Szymczak H. 124
-
- T**
- Taaev T.A. 49
 Tabakovic I. 78
 Tagirov L.R. 42, 54, 68, 74, 117
 Takagi H. 38, 40, 43, 75, 86
 Takata A. 52, 61
 Talalaev K.A. 72
 Talanov Yu. 83
 Talantsev A.D. 29, 48, 71
 Talatchian P. 95
 Taldenkov A.N. 33, 61, 82
 Taldenkov N. 106
 Tamion A. 118
 Tanaka M. 75
 Tanaka S. 98
 Tanaka Y. 73
 Taran S.V. 34
 Tarasenko A.S. 38, 120
 Tarasenko S.A. 99
 Tarasenko S.V. 38, 120
 Tarasenko T.N. 104
 Tarasov A.S. 34, 53, 107, 117
 Tarasov E.N. 90, 94
 Tarasov I.A. 34, 54
 Tarasov V.P. 86
 Tarasova O.S. 122
 Taskaev S. 44, 93
 Taskaev S.V. 94
 Tatarenko A.S. 61, 108, 121
 Tatsumi H. 84
 Tatsun T. 56
 Tavares J.M. 76
 Tedzhetov V.A. 40, 90
 Teitel'baum G. 83
 Teixeira B.M.S. 36
 Telegin A.V. 45, 70, 101, 105, 107, 124
 Telegin S.V. 119
 Telyshev D.V. 65
 Temerov V.L. 46, 100, 108, 109, 120
 Temiryazeva M.P. 105
 Temnov V.V. 43, 57, 75
 Temst K. 59
 Teplykh A.E. 121
 Terent'ev K. 105
 Terentev P. 113
 Terentev P.B. 87, 88
 Tereshina E.A. 92
 Tereshina I.S. 79, 87, 92, 94, 113
 Tereshonok M.V. 73
 Thalmann M. 29
 Thanh P.T. 79
 Thirion C. 60
 Thiyagarajah N. 29, 95
 Thomas J. 68
 Thomson Th. 90
 Thonig D. 112
 Tiberkevich V. 81
 Tiberto P. 59
 Tidecks R. 74, 117
 Tiercelin N. 33, 99
 Tikhanovskii A.Yu. 108
 Tikhomirova K.A. 35
 Tikhonov K.S. 103
 Tikhonov V.V. 40
 Timirgazin M.A. 47, 98, 111
 Timko M. 100
 Timm M. 118
 Timopheev A. 36, 41, 112
 Tishin A.M. 30, 59, 66, 94
 Titov I.S. 42, 92
 Titov M. 47, 112
 Titova A. 29
 Tkachenko I.A. 53
 Tobey R. 57
 Tobias T. 100
 Tokmachev A.M. 33, 115
 Tokmachev A.N. 106
 Tokman I.D. 30
 Tokunaga M. 30, 43
 Tolkachev V.A. 37, 39
 Tolmachev T.P. 91
 Tomašovičová N. 100
 Tomilin S.V. 37
 Torati S.R. 44
 Torgashev V.I. 105
 Toshchevnikov V. 84

Tóth-Katona T.....	100	Udalov O.G.....	58	van Loosdrecht P.H.M.....	114
Tournus F.....	118	Udintseva M.S.	119	Vanacken J.	106
Toussaint J.C.....	60	Udod L.V.	104	Vantomme A.	59
Toyoki K.	30	Ueno T.	32	Varnakov S.N.....	34, 54
Trakhtenberg L.I.	68	Uimin M.A.....	66, 67, 96, 119	Varvaro G.	51
Tran D.T.....	43, 94	Ulin S.E.	89	Varyukhin V.N.	68
Tran N.M.....	43, 57	Ulitzko M.V.....	66, 67	Varzaneh A.G.....	93
Trapp B.	60	Ulitzko V.A.	68	Vas'kovskiy V.O....	35, 36, 54,
Traum C.	43, 57	Ullrich A.	74, 117	55, 71	
Tregubova T.V.....	61	Ulyanov A.N.....	101	Vasili H.B.....	75
Tretiakov O.A.	81	Ünal A.....	116	Vasiliev A.....	61
Trif M.	97	Upadhyay R.V.	76	Vasiliev A.L.	68, 82
Tripathi V.....	83	Urubkov I.V.....	84	Vasiliev A.N.	49, 50, 51, 68, 74,
Trochenco V.G.....	105	Urusova N.V.....	121	79, 80, 99, 106, 114	
Trofimov A.V.....	41, 96	Urzhumtcev A.N.....	90	Vasiliev A.V.....	49, 88, 101
Trofimov N.O.....	121	Urzhumtsev A.N.....	90	Vasiliev L.	91
Trokiner A.....	107	Usachev P.A.	31, 106	Vasiliev M.	38
Tronov A.A.	45	Useinov N.Kh.	32, 34	Vasinovich V.V.....	68
Troyanchuk I.O.	76, 124	Ushakova O.A.....	91	Vasyukhno N.V.....	35
Trukhanov A.V. ...	39, 89, 107, 122	Usik A.Yu.	36	Vaudel G.....	43, 57
Trukhanov S.V.....	107, 122	Usov N.A.	53, 78	Vavilova E.....	101, 106
Truong A.	85	Usov Yu.V.	107	Vaz C.A.F.....	102
Trusevich N.G.....	68	Uspenskaya L.S.	74	Vazhenina I.G.....	53
Trusov L.A.....	51, 62, 63, 88	Uspenskii Yu.A.....	58, 60, 96	Vazquez M.	55, 60, 73, 92, 113
Tselebrovskiy A.N.	106	Ustinov A.B..	39, 83, 109, 122	Vdovichenko A.Yu.....	104
Tseng Ch.-W.	69	Ustinov V.V.....	33, 34, 62, 77, 105, 116, 118, 120	Vdovichev S.N.	78, 114
Tseng Y.-T.	47, 50, 65	Ustinova I.A.....	122	Ved' M.V.....	107
Tsikhalov D.S.....	60	Ustyugov V.A.	39	Vedyayev A.V.....	33, 35, 103
Tso C.-T.	50	Uteshev Z.M.	89	Velichkov A.	69, 120
Tsunegi S.	95	Uvarov O.V.	63	Veligzhanin A.A.....	68, 77
Tsvyashchenko A.V.	32, 69, 120	Uzdin V.M.	81	Velikanov D.A.	50, 54, 68, 107
Tsymbol E.Y.	75			Verbeeck J.	118
Tsysar K.M.....	48, 96			Vereshchagin S.N.....	107
Tugarinov V.....	82			Vergniory M.G.	99
Tugushev V.V..	28, 62, 82, 83, 96, 99			Verkhovskii S.V..	51, 107, 110
Tumanov V.A.....	67			Vernadsky V.I.	51
Turchenko V.	33, 63, 106, 107, 115, 122			Versteeg R.	114
Turkov V.A.	64, 76			Vetcher A.K.	93
Turpanov I.A.....	34			Vetoshko P.M.....	38, 123
Turygin A.P.....	55			Vick A.J.....	56
TyatyushkinA.N.....	64			Viglin N.A.	34
Tyukova I.S.....	31			Vikhrova O.V.	35, 107
Tzeng W.Y.....	74			Vilkov E.A.....	33, 35
Tzschope M.....	51			Vinnik D.A.	91, 122
				Vinogradov A.P.....	67, 103
				Vinogradova A.S.	76
				Vinogradova N.	113
				Vishnev A.A.....	68
				Vitko V.V.	83, 109
				Vlasik K.F.	89
				Vlasov V.S..	39, 40, 57, 60, 75, 121, 122

Vlasova N.I.	91
Vlček J.	77
Vodenicarevic D.	95
Vogl M.	106
Volchkov S.O.	66, 113
Volegov A.S.	86, 87, 88, 90, 94
Volegova E.A.	86
Volkov K.D.	90
Volkov M.P.	38
Volkov N.V.	34, 53, 109, 117
Volkova E.G.	91
Volkova O.S.	49, 50, 51, 80, 99, 106, 114
Volkova Z.N.	51, 107
Volochaev M.N.	48, 50, 51, 54, 78
Volodina N.O.	89
Voltan S.	42
von Gratoski S.V.	93
Vorob'ev G.P.	108
Vorob'ev S.I.	92
Vorob'ev-Desyatovskii N.V.	106
Vorobeva V.E.	116
Vorobieva N.V.	48
Voronchihina K.V.	92
Voronin V.I.	87, 119
Voronina E.V.	53
Voronov V.V.	40
Voronova A.V.	88
Vorotynov A.	82, 119
Vostrikova K.E.	73
Vtulkina E.D.	52
Vu Manh Quang.	94
Vyazovskaya A.Yu.	99
Vylegzhanin A.G.	66
Vysotskii S.L.	40, 60, 123
Vysulin S.A.	49, 122
Vyzulin E.S.	45
Vyzulin S.A.	45, 122

W

Wada A.	84
Walecki D.	46
Wang C.M.	72
Wang C.-M.	69
Wang F.	44
Wang F.Z.	73
Wang H.	67
Wang J.	98
Wang M.	28, 45

Wang R.L.	123
Wang S.	41
Wang S.	102
Wang S.-H.	114
Wang Zh.	95, 108
Warnatz T.	81
Wartelle A.	60
Weides M.	97
Weigand M.	81
Wells J.	57
Wende H.	32, 46
Weschke E.	46
Whangbo M.-H.	51, 117
Whitehead N.J.	74
Wiafe-Akenteng D.	87
Wiater M.	31, 70
Widmann S.	74
Wiederrecht G.P.	113
Wiedwald U.	67, 72, 73
Wildes A.R.	59
Wilhelm F.	32, 46, 82, 90
Wintz S.	81, 116
Witt J.D.S.	57
Wojtowicz T.	31, 70
Wolf M.J.	42
Wolz M.	29
Wren T.	57
Wu A.	38
Wu K.H.	74, 114
Wurmehl S.	101, 106

X

Xiang T.	98
Xiao Q.F.	75
Xinghao H.	44
Xiufeng Han	96
Xu Ch.	28, 45
Xu X.	30, 43
Xu Y.	102

Y

Yablunovsky A.	83
Yada K.	73
Yagfarova A.	50
Yagovtsev V.O.	68
Yagupov S.	52
Yakimov I.S.	69
Yakovchuk V.Yu.	118
Yakovenko O.S.	122

Yakovlev D.R.	30, 31, 37, 57, 70
Yakovlev I.A.	54
Yakubovich O.V.	51
Yakubovskii A.Yu.	107, 110
Yakubtsev R.A.	87
Yakushev M.V.	70
Yakushiji H.	95
Yakushkin S.S.	72
Yamaguchi M.	45
Yamakage A.	73
Yamamura T.	71
Yamaoka A.	102
Yamaura K.	75
Yan H.	44
Yanagisawa E.	84
Yang C.P.	123
Yang H.	71
Yang Yi-feng.	98
Yang Z.	44, 67
Yanilkin I.V.	54
Yano M.	32, 42
Yanushkevich K.I.	34, 93, 104
Yao S.-Yu.	114
Yaroslavtsev R.N.	51, 53, 78
Yasin S.	105
Yassine O.	85
Yatsyk I.V.	50, 82, 107
Yazovskikh K.A.	87, 88
Yen N.H.	79
Yerin C.V.	62
Yerina M.V.	62
Yermakov A.E.	66, 67, 119
Yermakov A.Ye.	96
Yevdokimov Yu.M.	78
Yi T.	114
Yildirim O.	34
Yoshimoto T.	40
Yu H.	98
Yu S.C.	94
Yuan J.	98
Yuan Ye.	45, 106, 115
Yuasa S.	56, 95
Yudanov N.A.	45, 87, 89
Yuldasheva A.R.	55
Yumaguzin A.R.	109
Yun S.	105
Yunoki S.	98
Yurasov A.N.	38, 70
Yurkin G.Yu.	34, 107
Yurkov G.Y.	54
Yurov A.	45

Yushkov V.I..... 34
 Yusupov A.A. 54
 Yusupov R.V..... 37, 54

Z

Zabluda V..... 67
 Zadorozhny V.Y..... 88
 Zadov B..... 115
 Zagoskin A..... 82
 Zagrebin M.A.. 44, 78, 94, 123
 Zaikin A.D. 42
 Zainullina R.I. 105
 Zaitsev R.O. 68
 Zakharchuk I. . 44, 61, 90, 124
 Zakharov K. 61
 Zakharov K.V..... 68
 Zakharov P.N. 32
 Zakhvalinskii V.S. 34, 107
 Zakinyan A.R..... 64
 Zákutná D..... 77
 Zaliznyak I.A. 50
 Zamay G..... 67
 Zamay S. 67
 Zamay T. 67
 Zanareskin M.L. 35
 Zaporozhets V.D. 94
 Zaripova L.D..... 54
 Zarubin A.V. 97
 Zavyalov S.A. 104
 Zayak A.T. 123
 Zaytsev D.D..... 88
 Zdoroveyshchev A.V.. 35, 107
 Zdravkov V.I. 74, 117
 Zeer G. 82, 119
 Žemlička M..... 98
 Zezyulina P.A. 45, 90
 Zhakov S.V..... 66
 Zhang J. 78
 Zhang L..... 75
 ZhangYu. 105
 Zharkov S. 82
 Zharkov S.M..... 50, 119
 Zharmukhametov A.R. 55
 Zhekov K.R. 109
 Zheludev A. 79, 86, 118
 Zheludkevich A.L..... 31
 Zherebtsov D.A. 122
 Zhevstovskikh I.V. 105
 Zhigalov V.S..... 118
 Zhigilei L.V. 116
 Zhilova O.V. 33
 Zhitomirsky M..... 52, 61
 Zhivaya Ya.A..... 34
 Zhou H.D. 61, 83
 Zhou S..... 28, 45, 71, 106, 115
 Zhu B. 98
 Zhu D. 102
 Zhukov A. 43, 72, 88, 92
 Zhukov A.A. 87
 Zhukov A.V. 64
 Zhukov D.G. 90
 Zhukova V..... 72, 88, 92
 Zhuravlev A.V..... 102
 Zhuravlev M.Ye. 103
 Zhurenko S.V. 107
 Zhandun V.S..... 54
 Ziganshina S.A. 109
 Zimmermann K. 64
 Zinin A.V..... 90, 94
 Zlatic V..... 102
 Zlotnikov A.O. 97
 Znoyko S.L..... 44, 85
 Zubarev A.Yu..... 44, 64, 65
 Zubarev I.V. 67
 Zubavichus Y.V..... 68, 77
 Zubov V.E. 52, 113
 Zverev D.G..... 54
 Zverev V.I. 59, 94
 Zverev V.S..... 58, 63, 64
 Zverev V.V..... 50, 52
 Zvereva E.A..... 49, 51, 80, 86
 Zvezdin A.K. 36, 37, 38, 58, 62, 70, 92, 102, 110, 112
 Zvezdin K.A. 35, 36, 62, 99, 102, 112
 Zvonov A.I. 87
 Zvyagina G.A. 109
 Zykin M.A..... 49, 51
 Zykov G.S. 105, 106, 115

