CONFERENCE Program

AUGUST 29 / SUNDAY

09:00 - 14:00	Time for excursions (optional)	
14:00 - 17:00	Registration	
14:30 - 16:30		Early Career Meetings
		Polina Khapaeva:
		Team building for young
		scientists
		On-site
17:00 – 17:30	Opening ceremony	
17:30 - 18:15		Chair: Valeria Rodionova
	Tutorial-Plenary I: Andrey Fedy	yanin
	Resonant magnetophotonics: wh	ere light meets magnetism
	5 1	ğ ğ
18:15 - 19:00	Tutorial-Plenary II: Davide Ped	dis
	Design advanced magnetic nanocomposites	
	5	·
19:00 – 21:00	Welcome cocktails	

AUGUST 30 / MONDAY

ACCOUNT WORLDAY		
08:00 - 09:00	Registration	
09:00 - 09:45	Chairs: Montserrat Rivas, Katerina Levada	
	Plenary Talk I: Jose Rivas	
	Multifunctional superparamagnetic NPs for biomedical applications	
09:45 – 11:00	Conference Section – I <u>Chair</u> : Katerina Levada	Conference Section – II <u>Chair</u> : Christina Gritsenko
09:45 – 10:15	Maxim Nikitin: Smart biomedical nanoagents and enhancement of their in vivo performance with the "MPS-cytoblockade" technology	Sara Laureti: Advanced approaches for the synthesis and characterization of highly ordered L10 alloys
10:15 – 10:45	Roberto Zysler: The design of core/shell bimagnetic nanoparticles for the optimization of magnetic hyperthermia	10:15 – 10:30 Irina Dzhun: Ferromagnetic resonance investigations of exchange biased NiFe/IrMn/NiFe trilayer structures

10:30 − 10:45 Van Tarasov: Epitaxial stabilization of Fe₂S(1111)-orientated thin films on Si(110) via self-organized growth of α-FeSi₂ nano-stripes: structural analysis and magnetic properties Magnetic Nanoparticles: From Physical Design to Medical Applications Nikita Snegirev: Resonant properties and Debye temperature of canted antiferromagnet FeBO₃			
Epitaxial stabilization of Fe ₃ Si(111)-orientated thin films on Si(110) via self-organized growth of α-FeSi ₂ nano-stripes: structural analysis and magnetic properties			10:30 – 10:45
Fö ₃ Si(111)-orientated thin films on Si(110) via self-organized growth of α-FeSi₂ nano-stripes: structural analysis and magnetic properties 10:45 – 11:00 Ulf Wiedwald: Magnetic Nanoparticles: From Physical Design to Medical Applications 11:00 – 11:30 Coffee break 11:30 – 13:15 Conference Section Chair: Mikhail Dorokhin 11:30 – 12:00 Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co₂MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in FeNi-Al Heusler alloys: effect on structural and magnetic properties Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			
10:45 – 11:00 Ulf Wiedwald: Magnetic Nanoparticles: From Physical Design to Medical Applications 11:00 – 11:30 Coffee break 11:30 – 13:15 Conference Section Chair: Mikhail Dorokhin 11:30 – 12:00 Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of magnetic properties 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			Fe₃Si(111)-orientated thin films on Si(110) via self-organized
Magnetic Nanoparticles: From Physical Design to Medical Applications 11:30 – 11:30 Coffee break Conference Section Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of diamagnetic properties of microscale glass-coated microwires Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			structural analysis and
Physical Design to Medical Applications 11:00 – 11:30 Coffee break 11:30 – 13:15 Conference Section Chair: Mikhail Dorokhin Chair: Alexander Pyatakov Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of microscale glass-coated microwires 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of diamagnetic protential of arrays of ferromagnetic microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal	10:45 - 11:00		•
11:30 – 13:15 Conference Section Chair: Mikhail Dorokhin Chair: Alexander Pyatakov Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy soverning the magnetic properties Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of magnetically ordered materials 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal		Physical Design to Medical	Debye temperature of canted
International School Chair: Mikhail Dorokhin 11:30 – 12:00 Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal	11:00 - 11:30	Coffee break	
11:30 − 12:00 Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 − 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co₂MnGa heusler alloy 12:15 − 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of magnetically ordered materials 12:30 − 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 − 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal	11:30 – 13:15	Conference Section	•
11:30 – 12:00 Rastislav Varga: Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal		Chair: Mikhail Darakhin	
Heusler-based microwires and nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of magnetic properties of magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetic pour services and nanowires and polymer harness: mesoscopic description of magnetoscive polymers 12:00 – 12:30 Dmitry Balaev: Physical mechanisms governing the magnetic behavior of nanoparticles of magnetically ordered materials 12:30 – 12:45 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			
nanowires for SMART shape memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal	11:30 – 12:00		
memory and magnetocaloric applications 12:00 – 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties of magnetically ordered materials 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal Micromagnetic particles in the magnetic potential of arrays of ferromagnetic microwires associated with the magnetization reversal			
applications Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal polymers 12:00 – 12:30 Dmitry Balaev: Physical mechanisms governing the magnetic behavior of nanoparticles of magnetically ordered materials 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			
12:00 − 12:15 Vasiliy Buchelnikov: Influence of correlation effects on the electronic properties of Co₂MnGa heusler alloy 12:15 − 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 − 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 − 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 − 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 12:00 − 12:30 Dmitry Balaev: Physical mechanisms governing the magnetic behavior of nanoparticles of magnetically ordered materials 12:30 − 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 − 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			
Influence of correlation effects on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal Insulate: Dmitry Balaev: Physical mechanisms governing the magnetic behavior of nanoparticles of magnetically ordered materials 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing	12:00 – 12:15		
on the electronic properties of Co ₂ MnGa heusler alloy 12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires Anastasiya Gurevich: Forced diffusion of diamagnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal Physical mechanisms governing the magnetic behavior of nanoparticles of magnetically ordered materials 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal			Dmitry Ralaey:
12:15 − 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 − 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 − 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 − 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal governing the magnetic behavior of nanoparticles of magnetically ordered materials 12:30 − 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 − 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal		on the electronic properties of	
12:15 – 12:30 Olga Miroshkina: Layered crystal structure in Fe-Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science		-	
Ni-Al Heusler alloys: effect on structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science	12:15 – 12:30		behavior of nanoparticles of
structural and magnetic properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science			magnetically ordered materials
properties 12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science			
12:30 – 12:45 Valeria Kolesnikova: Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 12:30 – 13:00 Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science			
Micromagnetic structure and magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal Konstantin Neyman: In-silico design of bimetallic nanocrystallites to speed-up their manufacturing 13:00 – 13:15 Early Career Meetings Polina Khapaeva: How to communicate your science	12:30 - 12:45		12:30 - 13:00
magnetic properties of microscale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science	12.00 - 12.40		
scale glass-coated microwires 12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science		9	
12:45 – 13:00 Anastasiya Gurevich: Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science		•	
Forced diffusion of diamagnetic particles in the magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science	12:45 - 13:00	Anastasiya Gurevich:	
magnetic potential of arrays of ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science			G
ferromagnetic microwires 13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science			
13:00 – 13:15 Svetlana Evstigneeva: Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal 13:00 – 13:45 Early Career Meetings Polina Khapaeva: How to communicate your science			
Nonlinear effects in Co-based ferromagnetic microwires associated with the magnetization reversal Early Career Meetings Polina Khapaeva: How to communicate your	12:00 12:45	3	12:00 12:45
ferromagnetic microwires associated with the magnetization reversal Polina Khapaeva: How to communicate your science	13.00 - 13.15		
associated with the magnetization reversal Polina Khapaeva: How to communicate your science			Early Career Meetings
magnetization reversal How to communicate your			• • • • • • • • • • • • • • • • • • •
process			
		process	Science

13:15 – 15:00	Lunch	
15:00 – 17:00	Conference Section	Smart Composites
		International School
	Chair: Oleg Stolbov	Chair: Alexander Omelyanchik
15:00 – 15:30	Kalliopi Trohidou: Organic coating effects on the	Paola Lova: From photopolymers to 4D
	magnetic behavior of	printing: a blueprint for a new
	nanoparticles systems	manufacturing paradigm
15:30 – 15:45	Maryam Abdolrahimi:	15:30 – 16:00
	Effect of molecular coating on magnetic properties of spinel	Alexander Pyatakov: Magnetic straintronics:
	ferrite nanoparticles: XAS	underlying physical effects and
	study	promise for ultra low-
15:45 – 16:00	Danil Baigutlin:	consumption electronics
	Ab initio study of Mn ₂ ScZ Heusler alloys (Z = Al, Si, P,	
	Ga, Ge, As, In, Sn, Sb) with	
	switchable metal to half-metal	
40:00 40:45	behavior	16:00 – 16:30
16:00 – 16:15	Aleksei Kozlov: Dzyaloshinskii-Moriya	Fedor Senatov:
	Interaction in epitaxial Pd/Co	Biomimetic polymer materials
	films with artificial oxidized	and tissue engineering
16:15 – 16:30	magnetic layer	
10.15 - 10.50	Sergey Leble Valeriy Uzdin:	
	The nucleation rate of domain	
	wall reversal at plane	
	ferromagnetic stripe: numerical and phi-in-quadro models	
	comparison	
16:30 - 16:45	Nikolay Chtchelkatchev:	16:30 – 17:15
	Boson magnetism and quantum phase transitions in a	Early Career Meeting
	system of strongly correlated	Alexandr Vinogradov:
	cold atoms	Portfolio of the best SEO
16:45 – 17:00	Alexander Pyatakov:	
	Electric field as a "foaming agent" in micromagtism: how	
	to blow magnetic bubble	
	domains and skyrmions	
17:00 – 17:30	Technical break	
17:30 – 19:00	Poster session I	
	Chairs: Fedor Senatov, Olga St	tolbova, Stanislav Pshenichnikov

AUGUST 31 / TUESDAY

08:00 - 09:00	Registration	
09:00 - 09:45		Chair: Larisa Panina
	Plenary Talk II: Gisela Schütz:	
	Nanomagnetism in the light of X-rays	
09:45 – 11:00	Conference Section – I	Conference Section – II
	<u>Chair</u> : Victor Belyaev	<u>Chair</u> : Alexey Ivanov
09:45 – 10:15	Alberto López-Ortega: Plasmon induced magneto- optical enhancement in hybrid nanostructures: bright and dark plasmons	Yuriy Raikher: Magnetoactive elastomers with high-coercive filler: ferromagnetic particles under non-saturated magnetization and restricted mechanical freedom
10:15 – 10:30	Nikolai Khokhlov: Spectral features of magnetostatic waves optically excited in ferromagnetic anisotropic films	10:15 – 10:45 Liudmila Makarova: "Smart" layered composites based on magnetoactive elastomers and piezopolymer
10:30 – 10:45	Grigoriy Ostanin: Ultrafast optics of metal- dielectric magnetoplasmonic metasurface	with multiferroic properties
10:45 – 11:00	Anna Chernyak: Subpicosecond dynamics of magneto-optical Faraday effect in hybrid metasurfaces	Danil Isaev: The dynamic control of magnetic elastomer surface for biomedical applications
11:00 – 11:30	Coffee break	
11:30 – 13:15	Conference Section	Smart Composites International School
	Chair: Alexander Omelyanchik	Chair: Valeria Rodionova
11:30 – 12:00	Maria del Puerto Morales: Engineering iron oxide nanocatalysts for water remediation	Andrei Petukhov: Self-assembly at the nanoscale in polymers and composites
12:00 – 12:30	David Cabrera: Magnetic nanoparticles for cardiovascular diseases	Larisa Panina: Structural and magnetic properties of arrays of nanowires/nanotubes in polymer templates

12:30 – 12:45 12:45 – 13:00	Stanislav Pshenichnikov: Cellular internalization of iron oxide magnetic nanoparticles induce oxidative stress in T-lymphoblastic leukemia cells Alevtina Semkina: Magnetic nanoparticles based immunotherapeutic agents for macrophage reprogramming	12:30 – 13:00 Ester M. Palmero: Permanent Magnet-Polymer based Composites for Bonding and Additive Manufacturing
13:00 – 13:15 13:15 – 15:00	Elena Balica: A new therapy for adiposopathy based on low frequency ac filed applications on magnetic nanoparticles Lunch	Askold Trul: Conjugated oligomers and polymers for gas sensing via organic field-effect transistors
15:00 – 17:15	Conference Section – I	Conference Section – II
15.00 - 17.15	Chair: Karim Amirov	Chair: Larisa Panina
15:00 – 15:15 15:15 – 15:30	Alexander Ulyanov: Effect of structure and electron configuration on the magnetic properties of La _{0.7} Ca _{0.3-x} Sr _x Mn _{0.95} M _{0.05} O ₃ manganites Kirill Sobolev: Optimized spark-plasmasintering synthesis of bulk phase-pure (Cr _{1-x} Mn _x) ₂ AIC MAX-phases	15:00 – 15:30 Manuel Vázquez: Hybrid magneto-polymers arrays
15:30 – 15:45	Irina Tereshina: High-field magnetization study of R-Fe-H systems with a Laves phase structure	Oleg Stolbov: Field-induced pseudoplasticity of magnetoactive elastomers: a phase transition interpretation
15:45 – 16:00	Elena Voronina: Synthesis aspects and magnetic moment alignment in ternary ordered Fe-Al-M (M = Ga, B, Sn) alloys	Dmitriy Saveliev: Dependence of fiber diameter on magnetoelectric effect in flexible composite
16:00 – 16:15	Mikhail Dorokhin: Switching of magnetoresistive light-emitting diode by external magnetic field	Vyacheslav Lobekin: Torsion mode of the magnetoelectric effect in a Metglas/GaAs layered structure

16:15 – 16:30	Mariya Matyunina: Magnetostriction in Fe-Ga alloys: effect of rare-earth elements doping	Rafael Shakirzyanov: High frequency properties of P(VDF-TFE)/Mn-Zn ferrite/carbonyl iron/graphite composites
16:30 – 16:45	Nikolay N. Kuzmin: Magnetic phase transitions in the new multiferroic SmCr ₃ (BO ₃) ₄	Anastasia Dryagina: Synthesis and magnetic properties of Co nanowires/PVDF composites
16:45 – 17:00	Artem Tarasov: Photoemission from 4f shell as a probe of crystal electric field and magnetism: A view on TbRh ₂ Si ₂	Pierfrancesco Maltoni: Optimizing the design of magnetically hard SrFe ₁₂ O ₁₉ based nanocomposites
17:00 – 17:15	Akhmed Aliev: Magnetocaloric effect in Mn _{1-x} Fe _x As in cyclic magnetic fields	Artem Shiryaev: Splitting of the magnetic loss peak of composites under external magnetic field
17:15 – 17:30	Technical break	
17:30 – 19:00	Poster session II <u>Chairs</u> : Alexander I	Kamantsev, Anastasiya Gurevich, Karim Amirov

SEPTEMBER 1/WEDNESDAY

08:00 - 09:00	Registration	
09:00 - 09:45	Chair: Alexandr Sadovnikov	
	Plenary Talk III: Burkard Hillebrands:	
	Advances in coherent magnonics	
09:45 - 11:00	Conference Section – I	Conference Section – II
301.10	Chair: Nikolai Perov	Chair: Yuriy Raikher
09:45 – 10:15	Alexandr Sadovnikov:	Oscar Iglesias:
00.40 10.10	Tunable spin-wave propagation	Aggregates and dipolar
	in the ensembles of magnonic	interactions in nanoparticle
	stripes	assemblies for magnetic
	·	hyperthermia
10:15 – 10:30	Kirill Boldyrev:	Alexey Ivanov:
	Absorption non-reciprocity on exciton-magnon-phonon states	Static magnetic response of multicore particles
	of the magnetoelectric	municore particles
	antiferromagnet CuB ₂ O ₄	
10:30 - 10:45	Alexander Musorin:	Grzegorz Kwiatkowski:
	Bound states in the continuum	Optimal control of
	in magnetophotonic	magnetization reversal by
	metasurfaces	means of applied magnetic field
10:45 – 11:00	Tatiana Murzina:	Aleksandr Kamzin:
10.43 – 11.00	Magnetooptics of opal-cobalt	Magnetic GrO-ferrites and
	based photonic heterostructure	core/shell nanostructures for
	based photonic heterostructure	core/shell nanostructures for biomedical applications:
	based photonic heterostructure	
11:00 – 11:30	Coffee break	biomedical applications: structure and properties
11:00 – 11:30 11:30 – 13:15	·	biomedical applications: structure and properties Smart Composites International
	Coffee break Conference Section	biomedical applications: structure and properties Smart Composites International School
11:30 – 13:15	Coffee break Conference Section Chair: Irina Tereshina	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia
	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas:	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov:
11:30 – 13:15	Coffee break Conference Section Chair: Irina Tereshina	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia
11:30 – 13:15	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov:	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in
11:30 – 13:15 11:30 – 12:00	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials
11:30 – 13:15 11:30 – 12:00	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching in nanocomposite based on	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials 12:00 – 12:30
11:30 – 13:15 11:30 – 12:00	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching in nanocomposite based on LiNbO ₃ with embedded	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials 12:00 – 12:30 Liudmila Makarova: Polymer-based composites: fabrication, study and
11:30 – 13:15 11:30 – 12:00 12:00 – 12:15	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching in nanocomposite based on LiNbO ₃ with embedded magnetic nanoparticles	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials 12:00 – 12:30 Liudmila Makarova: Polymer-based composites:
11:30 – 13:15 11:30 – 12:00	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching in nanocomposite based on LiNbO ₃ with embedded	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials 12:00 – 12:30 Liudmila Makarova: Polymer-based composites: fabrication, study and
11:30 – 13:15 11:30 – 12:00 12:00 – 12:15	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching in nanocomposite based on LiNbO ₃ with embedded magnetic nanoparticles Alevtina Smekhova: Synchrotron-based studies of multicomponent systems: a	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials 12:00 – 12:30 Liudmila Makarova: Polymer-based composites: fabrication, study and
11:30 – 13:15 11:30 – 12:00 12:00 – 12:15	Coffee break Conference Section Chair: Irina Tereshina Giuseppe Muscas: Nanostructured amorphous and hybrid composites Aleksandr Iliasov: Low voltage resistive switching in nanocomposite based on LiNbO ₃ with embedded magnetic nanoparticles Alevtina Smekhova: Synchrotron-based studies of	biomedical applications: structure and properties Smart Composites International School Chair: Alekhina Iuliia Nikolai Perov: Magnetoelectric effects in composite materials 12:00 – 12:30 Liudmila Makarova: Polymer-based composites: fabrication, study and

12:30 – 12:45	Dmitri Zagorskiy: Structure and magnetic properties of layered nanowires made of 3d metals	12:30 – 13:00 Sergey Ponomarenko: Smart polymer materials for organic bioelectronics and
12:45 – 13:00	Ilia Doludenko: FeNi and FeCo alloys nanowires: synthesis, structure and magnetic properties	robotics
13:00 – 13:15	Nikolai Perov: Magnetic properties of the amorphous magnetic microsprings	Svetlana Voronina: Target properties elements control made of polymer composite materials
13:15 - 15:00	Lunch	
15:00 – 17:00	Conference Section – I <u>Chair</u> : Alexandr Sadovnikov	Conference Section – II <u>Chair</u> : Dmitriy Balaev
15:00 – 15:30	Francesco Pineider: Plasmons interacting with magnetic fields: an application- oriented perspective	Jerome Depeyrot: Magnetic colloids: from magnetofluorescent nanofluids to magnetic anisotropies of core/shell nanoparticles
15:30 – 15:45	Mariia Efremova: Solid solution AuFe nanoparticles synthesized by wet-chemistry methods and their transformation to Au/Fe Janus nanostructures	Elizaveta Gubanova: Heating efficiency of magnetic nanoparticles with cubic anisotropy in a viscous liquid
15:45 – 16:00	Alessio Gabbani: Colloidal heavily doped semiconductor nanocrystals as an excellent platform for active magnetoplasmonics	Ruslan Rytov: Specific absorption rate of elongated polydisperse assemblies of magnetic nanoparticles
16:00 – 16:15	Kseniya Tsysar: Magneto-optical properties of metal oxide nanowire	Sawssen Slimani: Magnetic mesoporous silica nanostructures: investigation of magnetic properties
16:15 – 16:30	Eugeny Demikhov: Modelling and optimization of high magnetic field cryogen- free tomograph	Telem Simsek: High moment FeB nanoparticles for magnetic hyperthermia
16:30 – 16:45	Petr Ryapolov: Contactless control of the dynamics of non-magnetic liquid and gas inclusions in a magnetic fluid	Bachir Ouari: Specific absorption rate of magnetic ferromagnetic nanoparticles having a biaxial anisotropy

16:45 – 17:00	Artur Useinov: Application of the point-like contact model: Resistance simulation of the single magnetic domain wall	Daniela P. Valdés: Role of anisotropy, frequency, and interactions in magnetic hyperthermia applications: noninteracting nanoparticles and linear chain arrangements
17:00 – 17:45	Coffee break	
17:45 – 19:15	Early Career Meetings 17:45 – 18:30 Sergei Guriev: Why physicist cacareer? 18:30 – 19:15 Des Mapps Publishing (really) good research	
19:50 – 20:00	Joint photography	. papo. o
20:00 - 22:00	Conference Dinner	

SEPTEMBER 2 / THURSDAY

09:00 - 09:45		Chair: Nikolai Perov
	Plenary Talk IV: Stefano Carretta	
	Magnetic molecules for quantum	information
09:45 – 11:30	Poster session III	
	Chairs: Akhmed Aliev, Sok	olov Aleksey, Christina Gritsenko
11:30 – 13:15	Conference Section	Smart Composites International
		School
	<u>Chair</u> : Alexander Musorin	Chair: Sergey Ponomarenko
11:30 – 12:00	Giulia Serrano:	Andrei Kholkin:
	On surface control of magnetic	Magnetoelectric composites for
	and quantum functionalities of molecular magnets	sensing and energy harvesting applications
12:00 – 12:15	Evgeny Skorokhodov:	12:00 – 12:30
	Study of the gyrotropic mode of	Gaspare Varvaro:
	magnetic vortex oscillations in	Synthetic antiferromagnets for
	a magnetic resonance force	biomedical and flexible
	microscope	spintronic applications
12:15 – 12:30	Alexey Syromyatnikov: Atomic-scale self-organization of monatomic transition-metal oxide chains	

12:30 – 13:00	Rudolf Schaefer: MCD-based magneto-optical microscopy	12:30 – 12:45 Valeriy Vlasov: Strength characteristics of 3D- printed samples determinate 12:45 – 13:00 Ekaterina Brodovskaya: Packing magnetic nanoparticles into polymer microcapsules increases their cytotoxicity in presence of AMF
13:15 – 13:45	Conference closing and awards ceremony	
15:15	Time for excursions (optional)	

Time limitation:

- Plenary presentations are limited by 40 minutes with addition of 5 minutes for questions;
- Invited talks are limited by 25 minutes with addition of 5 minutes for questions;
- o **Oral talks** are limited by **12 minutes** with addition of 3 minutes for questions.

----- List of posters

Aug 30, Monday

Aug	Su, Monday		
A-1	Abdulkadirova Nurizhat	Magnetocaloric and thermophysical properties of La-Fe-Co-Si compounds	On-site
A-2	Alekhina Iuliia	Magnetization reversal in amorphous magnetic microwires	On-site
A-3	Antipova Valentina	Development and comprehensive analysis of the physical properties of PVDF substrates and their effect on neural stem cells activity	On-site
A-4	Davkina Alexandra	Ferromagnetic microwire-polymer composite for sensor applications	On-site
A-5	Emelyanova Sabina	Correlation of the structural transition temperatures and electronic characteristics in Ni-Mn-Sb-based magnetocaloric alloys	Online
A-6	Fedulov Fedor	Nonlinear magnetoelectric effects in a periodic Ni-PZT heterostructure	Online
A-7	Fomin Yury	Comparative study of melting of graphite and graphene	On-site
A-8	Gubanov Vladislav	Phase resolution of spin wave propogation in YIG film with linearly varying width	On-site
A-9	Gupalo Marina	Investigation of magnetic elastomers: structural and magnetic properties	On-site
A-10	Ichkitidze Levan	Influence of the magnetic field gradient on the optical density of an aqueous dispersion containing biological material and carbon nanotubes	Online
A-11	Ichkitidze Levan	Planar Superconducting Film Magnetic Field Concentrator	Online
A-12	Ignatov Artem	Length dependence of magnetization properties of amorphous FeCo-based microwire with nearly zero magnetostriction coefficients	On-site
A-13	Iliasov Artem	Selective toxicity of nanoparticles with redox- sensitive coating towards cancer cells	On-site
A-14	Kalganov Dmitrii	Study of mechanically-induced twins in 10M modulated Ni-Mn-Ga martensite	On-site
A-15	Kamantsev Alexander	Non-contact methods for magnetocaloric effect measurements	On-site
A-16	Kobayashi Satoru	Magnetic hysteresis scaling analysis for Fe ₃ O ₄ spherical particles	Online
A-17	Kozitsina Alisa; Svalova Tatiana	Enzyme-free electrochemical immunoassay and microfluidic immunochip based on magnetite nanoparticles for determination of clinically significant analytes	On-site
A-18	Kudyukov Egor	Obtaining and studying the structural and magnetoelectric properties of nanocomposites	On-site

A-19 Kulikov Oleg Synthesis and toxicological studies of blocompatible iron oxide nanoparticles for local hyperthermia and MRI On-site of liferent timepoints of liferent timepoints of liferent timepoints of liferent timepoints of liferent limepoints of layers of amorphous ferromagnetic microwires in a glass shell on-site of liferent limepoints of layered composite based on magnetoactive elastomer and PVDF substrate of liferent lime of liferent lime of liferent lime of liferent liferent lime of liferent lime of liferent lime of liferent lime of liferent liferent lime of liferent			of the PVDF/Metal	
A-19 Kulikov Oleg biocompatible iron oxide nanoparticles for local hyperthermia and MRI Co-Zn magnetic nanoparticles by antimicrobial properties inhibited E.Coli growth rate in different timepoints A-21 Litvinova Alyona Influence of internal stressess on the magnetic properties of amorphous ferromagnetic microwires in a glass shell On-site microwires of layered composite based on magnetoactive elastomer and PVDF substrate A-23 Makaryin Rodion Synthesis and characterization Citric acid-modified Iron oxide nanoparticles for biomedical application On-site microbial contamination detection On-site microbial contamination of a DNA aptamer - cancer cells magnetic separation agent of contamination detection On-site magnetic separation agent On-site magnetic separation agent On-site magnetic separation agent On-site microbial contamination of all provided in the			·	
A-20 Levada Kateryna properties inhibited <i>E. Coli</i> grówth rate in different timepoints A-21 Litvinova Alyona Influence of internal stressess on the magnetic properties of amorphous ferromagnetic microwires in a glass shell A-22 Lupitskaya Yuliya Magnetoelectric materials based on lead zirconate titanate and cobalt ferrite A-23 Makaryin Rodion Frequency bending properties of layered composite based on magnetoactive elastomer and PVDF substrate A-24 Mikelashvili Vladimer Synthesis and characterization Citric acid-modified Iron oxide nanoparticles for biomedical application A-25 Morozova Elizaveta Biosensor based on Ag nanoparticles for microbial contamination detection A-26 Moryachkov Roman Properties in anocomposite sa promising tool for leukemia treatment A-27 Motorzhina Anna Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment A-28 Musatova Veronika Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset A-30 Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-31 Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films A-33 Norkin Igor To-site Synthesis of Ferritic Ceramics Parlowal Properties on Parlowal Properties on Parlowal Par	A-19	Kulikov Oleg	biocompatible iron oxide nanoparticles for	Online
A-21 Litvinova Alyona properties of amorphous ferromagnetic microwires in a glass shell A-22 Lupitskaya Yuliya Magnetoelectric materials based on lead zirconate titanate and cobalt ferrite A-23 Makaryin Rodion Frequency bending properties of layered composite based on magnetoactive elastomer and PVDF substrate A-24 Mikelashvili Vladimer Synthesis and characterization Citric acid-modified Iron oxide nanoparticles for biomedical application A-25 Morozova Elizaveta Biosensor based on Ag nanoparticles for microbial contamination detection A-26 Moryachkov Roman Frequency Bending Properties of Moryachkov Roman Siosensor based on Ag nanoparticles for microbial contamination detection A-27 Motorzhina Anna Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment A-28 Musatova Veronika Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability A-30 Nematov Maqsud Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset A-31 Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films A-33 Norkin Igor 10-year stability of magnetite nanopowder prepared via an exploding wire method Synthesis of Ferritic Ceramics BaFe(11,9+x)Mno.1TixO19 Solid-Phase Reaction On-site	A-20	Levada Kateryna	properties inhibited <i>E.Coli</i> growth rate in	On-site
A-22 Lupitskaya Yuliya Zirconate titanate and cobalt ferrite Frequency bending properties of layered composite based on magnetoactive elastomer and PVDF substrate A-24 Mikelashvili Vladimer A-25 Morozova Biosensor based on Ag nanoparticles for biomedical application A-26 Moryachkov Roman A-27 Motorzhina Anna A-28 Musatova Veronika A-29 Mustafa Abu Hasnat Mustafa A-30 Nematov Maqsud A-30 Nematov Maqsud A-31 Nematov Maqsud A-32 Nikolaeva Elena A-33 Norkin Igor Mikelashvili Frequency bending properties of layered composite based on Ag nanoparticles for microbial contamination detection On-site microbial contamination detection The role of small-angle X-ray scattering and molecular simulations in 3D structure elucidation of a DNA aptamer - cancer cells magnetic separation agent Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films 10-year stability of magnetite nanopowder prepared via an exploding wire method A-34 Pavlova Kseniya Don-site Synthesis of Ferritic Ceramics BaFe(11.19-x) Mn0,1Ti,O19 by Solid-Phase Reaction On-site	A-21	Litvinova Alyona	properties of amorphous ferromagnetic	On-site
A-23 Makaryin Rodion A-24 Mikelashvili Vladimer A-25 Synthesis and characterization Citric acid-modified Iron oxide nanoparticles for biomedical application A-26 Morozova Elizaveta A-26 Moryachkov Roman A-27 Motorzhina Anna A-28 Musatova Veronika A-29 Mustafa Abu Hasnat Mustafa A-30 Nematov Maqsud A-31 Nematov Maqsud A-32 Nikolaeva Elena A-33 Norkin Igor A-34 Pavlova Kseniya Synthesis and characterization Citric acid-modified Iron oxide nanoparticles for biomedical application Synthesis and characterization Citric acid-modified Iron oxide nanoparticles for biomedical application Consite of small-angle X-ray scattering and molecular simulations in 3D structure elucidation of a DNA aptamer - cancer cells magnetic separation agent Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia containing cobalt, nickel and iron: synthesis, properties, application Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films Norkin Igor Synthesis of Ferritic Ceramics BaFe(1,9-x)Mn _{0.1} Ti _x O ₁₉ by Solid-Phase Reaction On-site	A-22	Lupitskaya Yuliya		Online
A-24 Morozova Elizaveta Biosensor based on Ag nanoparticles for microbial contamination detection A-25 Morozova Elizaveta Biosensor based on Ag nanoparticles for microbial contamination detection A-26 Moryachkov Roman The role of small-angle X-ray scattering and molecular simulations in 3D structure elucidation of a DNA aptamer - cancer cells magnetic separation agent A-27 Motorzhina Anna Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment A-28 Musatova Veronika Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Mustafa Phasait Mustafa Sexellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset A-30 Nematov Maqsud Co-based alloys after heat treatment at temperatures near the crystallization onset A-31 Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films On-site Sunthers of Ferritic Ceramics A-34 Pavlova Kseniya Synthesis of Ferritic Ceramics BaFe(1,1,9-x)Mn _{0,1} Ti _x O ₁₉ by Solid-Phase Reaction On-site	A-23	Makaryin Rodion	composite based on magnetoactive elastomer	On-site
A-25 Elizaveta microbial contamination detection A-26 Moryachkov Roman The role of small-angle X-ray scattering and molecular simulations in 3D structure elucidation of a DNA aptamer - cancer cells magnetic separation agent A-27 Motorzhina Anna Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment A-28 Musatova Veronika Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset A-31 Nematov Magsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films A-33 Norkin Igor Synthesis of Ferritic Ceramics BaFe(11,9-x)Mn _{0.1} Ti _x O ₁₉ by Solid-Phase Reaction On-site	A-24		modified Iron oxide nanoparticles for	Online
A-26 Moryachkov Roman Bolecular simulations in 3D structure elucidation of a DNA aptamer - cancer cells magnetic separation agent Cobalt zinc ferrite/gold-arginine nanocomposite as promising tool for leukemia treatment A-28 Musatova Veronika Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Mustafa Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-31 Nematov Magsud Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films On-site	A-25			On-site
A-27 Motorzhina Anna nanocomposite as promising tool for leukemia treatment A-28 Musatova Veronika Magnetoactive metallopolymer nanomaterials containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset A-31 Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films A-33 Norkin Igor Synthesis of Ferritic Ceramics BaFe(1,1,9-x)Mn _{0,1} Ti _x O ₁₉ by Solid-Phase Reaction On-site	A-26		molecular simulations in 3D structure elucidation of a DNA aptamer - cancer cells	On-site
A-28 Musatova Veronika containing cobalt, nickel and iron: synthesis, properties, application A-29 Mustafa Abu Hasnat Mustafa Immobilization of cellulase enzyme onto iron oxide nanoparticles to improve thermal and pH stability Excellent soft magnetic properties in Co-based alloys after heat treatment at temperatures near the crystallization onset A-31 Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films A-33 Norkin Igor 10-year stability of magnetite nanopowder prepared via an exploding wire method Synthesis of Ferritic Ceramics BaFe(1,1,9-x)Mn _{0,1} Ti _x O ₁₉ by Solid-Phase Reaction	A-27	Motorzhina Anna	nanocomposite as promising tool for leukemia	On-site
A-29 Hustafa Abu Hasnat Mustafa oxide nanoparticles to improve thermal and pH stability A-30 Nematov Maqsud Elena Nematov Maqsud Nematov Maqsud Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-31 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films A-33 Norkin Igor Synthesis of Ferritic Ceramics Paylova Kseniya Synthesis of Ferritic Ceramics BaFe(11.9-x)Mn _{0,1} Ti _x O ₁₉ by Solid-Phase Reaction	A-28	Musatova Veronika	containing cobalt, nickel and iron: synthesis,	On-site
A-30 Nematov Maqsud Co-based alloys after heat treatment at temperatures near the crystallization onset Tuning the Curie temperature in amorphous alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films On-site On-site On-site On-site On-site A-33 Norkin Igor 10-year stability of magnetite nanopowder prepared via an exploding wire method Synthesis of Ferritic Ceramics BaFe(11.9-x)Mn0,1TixO19 by Solid-Phase Reaction	A-29		oxide nanoparticles to improve thermal and	Online
A-31 Nematov Maqsud alloys by current annealing for biomedical applications A-32 Nikolaeva Elena Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films On-site A-33 Norkin Igor 10-year stability of magnetite nanopowder prepared via an exploding wire method Synthesis of Ferritic Ceramics BaFe(11.9-x)Mn _{0.1} Ti _x O ₁₉ by Solid-Phase Reaction On-site	A-30	Nematov Maqsud	Co-based alloys after heat treatment at	On-site
A-33 Norkin Igor 10-year stability of magnetite nanopowder prepared via an exploding wire method 20n-site Synthesis of Ferritic Ceramics BaFe(11.9-x)Mn _{0.1} Ti _x O ₁₉ by Solid-Phase Reaction 20n-site	A-31	Nematov Maqsud	alloys by current annealing for biomedical	On-site
A-34 Pavlova Kseniya Synthesis of Ferritic Ceramics BaFe(11,9-x)Mn _{0,1} Ti _x O ₁₉ by Solid-Phase Reaction	A-32	Nikolaeva Elena	Magnetic Nanoparticles for Prevention and Treatment against Bacterial Films	On-site
BaFe($_{11,9-x}$)Mn _{0,1} Ti _x O ₁₉ by Solid-Phase Reaction	A-33	Norkin Igor	prepared via an exploding wire method	On-site
· · · · · · · · · · · · · · · · · · ·	A-34	Pavlova Kseniya		On-site
A-35 Pavlukhina Oksana Properties and segregation tendency of Fe-Rh-Z (Z=Pt, Pd) alloys Online	A-35	Pavlukhina Oksana	Properties and segregation tendency of Fe-Rh-Z (Z=Pt, Pd) alloys	Online

A-36	Pershina Khristina	The voltage response of a structure comprising a magnetoactive-elastomer cylinder and a piezoelectric material to magnetic field step excitations	Online
A-37	Peshkov Yaroslav	Microstructure and electrical transport properties of nanoscale [(Co ₄₀ Fe ₄₀ B ₂₀) ₃₄ (SiO ₂) ₆₆ /In ₂ O ₃ /C] ₄₆ multilayers	Online
A-38	Politova Galina	Magnetocaloric effect and magnetostriction of GdH0.15 single crystal in the vicinity of the magnetic phase transitions	Online
A-39	Savin Valeriy	Investigation of accelerated motion of domain wall in a bistable ferromagnetic microwire	On-site
A-40	Semenova Elena	Angular dependences of magnetization and coercivity in nanoheterogeneous magnetic materials SmCoCuFeZr	Online
A-41	Shah Syed Zuhair Abbas	Indium-Silver and Thallium-Silver Based Double-Perovskites for Photovoltaic & Thermoelectric Applications: A DFT Study	Online
A-42	Smoliarova Tatiana	Magneto-optical biosensor based on Au₃Fe _{1-x} hybrid nanocrystals for lung cancer detection	On-site
A-43	Stepanov Gennady	Magnetoactive elastomer as a multifunctional material	On-site
A-44	Taaev Taa	Investigation of FeRh alloy by wide-field Kerr microscopy	On-site
A-45	Taaev Taa	Hard/soft magnetic bilayer and trilayers. Monte Carlo study	On-site
A-46	Tyutrina Ekaterina	Aminated magnetic nanoparticles for epithelial cell separation	On-site
A-47	Valdés Daniela P.	In situ formation and thermographical analysis of nanoparticle chain-like arrangements in polyacrylamide phantom during hyperthermia experiments	Online
A-48	Ved Mikhail	Room temperature circularly polarized electroluminescence in heterostructures based on a diluted magnetic semiconductor	On-site
A-49	Vereshchagin Mikhail	Estimation of parameters of domain wall by EMF signal generated while its movement in glass-coated cylindrical amorphous ferromagnetic microwires	On-site
A-50	Vikhrova Olga	Diode heterostructures with a ferromagnetic (Ga,Mn)As layer	Online
A-51	Vinnik Denis	Synthesis of high-entropy ceramics with a perovskite structure	On-site
A-52	Yaroslavtsev Roman	Magnetic coatings of transition metals synthesized using arabinogalactan	On-site

Aug 31, Tuesday

B-1			
	Akisheva Anna	Microstructure and macroscopic properties of the magnetic ellipsoidal nanoparticles system	On-site
B-2	Balaev Dmitry	Superparamagnetic effect on the dynamic remagnetization of ${\sf CoFe_2O_4}$ nanoparticles in a pulse field	On-site
B-3	Belyaev Victor	Magnetisation reversal of roughness modulated chemically homogeneous iron thin film	On-site
B-4	Belykh Sergey	Features of the magneto-optical effect in magnetic emulsions with low interfacial tension	On-site
B-5	Bezus Aleksey	Spontaneous Phase Transitions in the hard Domain Structure of Ferrite-garnet film	On-site
B-6	Chernoukhov Ivan	Automated search for low-dimensional magnets and its implementation: triangular magnetic clusters in K ₅ Fe ₃ O(SO ₄) ₆ •10H ₂ O	On-site
B-7	Demin Gleb	Model of perceptron based on spin-torque diodes with a ferroelectric/ferromagnetic bilayer controlled by a THz pulse of an electromagnetic field	On-site
B-8	Demin Gleb	Simulation of anisotropic magnetoresistive sensor as a sensitive element of a smart glove for post-stroke neurorehabilitation	On-site
B-9	Demina Polina	Circularly polarized luminescence of GaAs/InGaAs spin light-emitting diodes with CoPt/Al ₂ O ₃ /C injector	On-site
B-10	Denisova Elena	Green Synthesis and Magnetic Properties of Nanostructured FeCo-C and FeNi-C Films	On-site
B-11	Dokukin Sergei	Dendritic growth in Co/Cu(111) surface alloy	Online
B-12	Gan'shina Elena	Effect of phase transformations of a metal component on the magneto-optical properties of nanocomposites	Online
B-13	Gomide Guilherme	Effect of size distribution and surface roughness on the thermal dependence of coercivity and magnetic anisotropy in cobalt ferrite based nanoparticle assemblies	Online
B-14	Gritsenko Christina	Fabrication of 2D magnetoplasmonic crystals NiFe/Si $_3$ N $_4$	On-site
B-15	lusipova Iuliia	Characteristics of the magnetization-vector precession and switching in the spin-valve free layer with perpendicular anisotropy	On-site
B-16	Kalentyeva Irina	Effect of pulsed laser annealing on the properties of (Ga,Mn)As layers	On-site
B-17	Khairetdinova	Features of magnetization processes in	On-site

	Dinara; Lukkareva Snezhana	nanowires based on Fe-Co and Fe-Ni alloys	
B-18	Klavsyuk Andrey	Magnetism and Structure of Oxide Chains of Binary Alloys of Co and Ni on Ir(100)	On-site
B-19	Kostenko Olesya	Magnetic, Mossbauer and Raman spectroscopy study of iron-yttrium garnet nanostructured particles with functional heat generation ability	Online
B-20	Kurbanova Dzhuma	Critical behavior of the frustrated four-state Potts model on a triangular lattice	On-site
B-21	Kuznetsov Andrey	Magnetostatic equilibrium in concentrated ferrofluids	On-site
B-22	Liu Nannan	Magnetothermal properties of ZnMn ferrite nanoparticles	On-site
B-23	Matveev Oleg	Propagation of gap solitons in magnonic crystal - semiconductor structure	Online
B-24	Melnikova Polina	Electrodeposition of multilayered NiCu/Cu and CoCu/Cu nanowires, and investigation of their magnetic properties	On-site
B-25	Menelaou Melita	Spinel Nickel Ferrite Nanosystems	Online
B-26	Mikhailova Tatyana; Vysokikh Yury	Double Layer Magneto-Active Films for Magnetophotonics and Optomagnonics	On-site
B-27	Mironovich Andrey	Deposition of BaFe ₁₂ O ₁₉ thin films with perpendicular magnetic anisotropy on Al ₂ O ₃ (102) substrate	Online
B-28	Odintsov Sergey	Spin-wave transport in lateral waveguides with vertical coupled ring resonator	On-site
B-29	Omelyanchik Alexander	Magnetic properties of CoFe ₂ O ₄ /NiFe ₂ O ₄ and CoFe ₂ O ₄ /NiO core/shell nanoparticles: the case of ultrathin shells	On-site
B-30	Polulyakh Sergey; Semuk Yevgeny	Optically driven ferromagnetic resonance in easy-plane iron ferrite garnet films	On-site
B-31	Ryzhkov Aleksandr	Simulation of sequential magnetization and demagnetization of magnetosensitive vesicles	On-site
B-32	Shepeta Natalya	Comparison of the microstructure and magnetic properties of films and composite powders based on 3-d metal	On-site
B-33	Sokolov Aleksey	Surface Modification of Magnetite Nanoparticles for Their Applications	On-site
B-34	Stolbova Olga	Modeling and simulation of the magnetic domains evolution in Heusler alloys	On-site
B-35	Timofeev Andrey	Influence of substitution with aluminum on the	Online

		structure and properties of nanosized particles of hexagonal strontium ferrite obtained by the method of wet chemistry	
B-36	Tyatyushkin Alexander	Deformation of a Magnetic Liquid Drop in a Uniform Non-stationary Magnetic Field at High Reynolds Numbers	Online
B-37	Ustyugov Vladimir	Granulometry Of Nanocomposite Films Using Atomic Force Microscopy Images	Online
B-38	Varga Michal	FORC and TFORC Analysis of Electrodeposited Ni-Fe-Ga Ferromagnetic Shape Memory Nanowires	Online
B-39	Yambulatov Dmitriy	Cobalt(II) carboxylate complexes with redox- active ligands as a platform for the synthesis of bistable systems	On-site
B-40	Aronov Mikhail	Model of smart composite based on thermosensitive polymer for biomedical applications	On-site
B-41	Grigoreva Zoia	Development of a method for diagnostic Crohn's disease using hybrid nanoparticles Fe3O4-Au	On-site
B-42	Khutieva Anna	Spin-wave beams formation in 3D magnonic arrays	On-site

Sept 2, Thursday

Cherkasova M-type hexaferrites BaFe _{12-x-y} Ti _x Al _y O ₁₉ и	
Zhivulin Vladimir SrFe _{12-x-y} Ti _x Al _y O ₁₉ single crystals growth	On-site
C-2 Dormidontov Base Structural Components of Alloys for (Sm,Zr)(Co,Cu,Fe)z Permanent Magnets	Online
C-3 Glazkova Daria Determination of the direction of 4f magnetic moments in the near-surface atomic layers of rare earth compounds using photoemission	On-site
C-4 Grachev Andrey Tunable spin-wave propagation in planar YIG/PZT Mach-Zehnder interferometer	On-site
C-5 Knyazev Yuriy Effect of Electron Delocalization on the "Recoil-Free" Absorption of Y-Quants in Fe _{1.75} V _{0.25} BO ₄ Warwickite	On-site
C-6 Kolchugina Natalia Simulation of the Hysteretic Characteristics of Hard Magnetic Materials Based on Nd ₂ Fe ₁₄ B and Ce ₂ Fe ₁₄ B Intermetallics	Online
C-7 Kolesnikov Sergey An improved kinetic Monte Carlo model for computational and analytical investigations of the magnetic properties of finite-size atomic chains	On-site
C-8 Kozhina Elizaveta Template synthesis of 1D magneto-optical nanostructures	Online
C-9 Kozlyakova Ekaterina Magnetic properties of S = 1 spin chain in $Sr_2Ni(SeO_3)_2Cl_2$: XY-antiferromagnet at Sakai-Takahashi phase diagram	Online
C-10 Kuznetsov Iurii Obtaining of the diluted magnetic semiconductor phase by thermal diffusion during pulsed laser deposition process	On-site
C-11 Magnitskaya Maria Hyperfine interactions in the noncentrosymmetric high-pressure phase B20-RhGe doped with Cd or Ta	On-site
C-12 Makarov Pavel FDTD simulation of electromagnetic wave propagation in magnetic randomly inhomogeneous media	Online
C-13 Martyshkin Alexander Magnetic field switchable T-shape magnonic nonreciprocal power splitter	On-site
C-14 Mazurek Paweł Novel diagnostic of steel wire rope with passive magnetic methods	Online
C-15 Molchanova Anastasia Spectroscopic study and analysis of d-d transitions in Ni ions in nickel orthoborate (Cu, Ni)B ₂ O ₄	On-site
C-16 Morozov Dmitry Terbium substitution effects in CeFe ₂ : structure and magnetic properties	On-site
C-17 Murzin Dmitry Magnetic field mapping with magnetoplasmonic crystal-based sensor	On-site
C-18 Nikolaev Saddle point anomaly of Landau levels in	Online

	Alexander	graphenelike structures	
C-19	Reznikov lakov	Critical parameters of 2 nd generation HTSC tape during deformation	On-site
C-20	Rudakov Alexander	Binder jet 3d printing templates for smart composites with pattern structures	On-site
C-21	Safoklov Boris	Comparative analysis of PCM obtained by vacuum infusion and contact molding	On-site
C-22	Samardak Vadim	Magnetic properties of the sintered hard magnet Nd ₂ Fe ₁₄ B with amorphous and crystalline structures	
C-23	Sapronova Ekaterina	An estimation of magnetic properties of existing and prospective atomic chains in the framework of the Heisenberg Model	On-site
C-24	Sarnavskiy Nikita	Extended dispersive stiffness model of creep of domain walls	On-site
C-25	Sherstyuk Darya	Correlation of chemical composition and magnetic properties in the (Ni-Zn-Co)Fe ₂ O ₄ system	On-site
C-26	Shestakov Aleksey	ESR studies of the magnetic properties Mn _{0.325} Hg _{0.675} Te	Online
C-27	Solizoda Ibrokhimi	Impact of Al ³⁺ ions on magnetic and microwave properties of BaM:Ti hexaferrites	On-site
C-28	Starikov Andrey	Investigation of the Properties of Titanium Substituted Barium Hexaferrite	
C-29	Tatarinova Alisa	Application of the Rutherford Backscattering Method in Powder Nanotechnology	On-site



Sept 2, Thursday

,	Indibudy	
SCIS-1	Polina Zhukova	Polymer composite materials with shape memory effect based on polylactide for adaptable medical structures
SCIS-2	Dmitry Panov	Obtaining of calibrated nickel nanoparticles for local drug delivery
SCIS-3	Danil Borov	Force sensors for miniature actuators
SCIS-4	Iuliia Alekhina	Layered polymer-based structure for multiferroic applications
SCIS-5	Kirill Sobolev	Scanning probe microscopy as a multifunctional tool to study polymer-based composites
SCIS-6	Valentina Antipova	Effect of magnetoelectric polymer composites on the activity of bNCSCs
SCIS-7	Valeria Kolesnikova	FORC-approach for magnetoactive polymer-based composites
SCIS-8	Karim Amirov	On the prospects of magnetoelectric composites for biomedical applications
SCIS-9	Julia Filippova	Application of the energy criterion of point agglomeration to Ni and Fe nanowires synthesized in the pores of track membranes.
SCIS-10	Maqsudsho Nematov	Stress and temperature sensitivity of magnetization process of magnetic microwires for structural health monitoring
SCIS-11	Alexander Omelyanchik	Magnetic properties of CoFe ₂ O ₄ /SiO ₂ nanocomposites
SCIS-12	Isaev Danil	Numerical modelling of FORCs of magnetoactive elastomers based on ferromagnetic and ferroelectric particles