

10:00	9:40	Registration of participants in FEFU hotel
10:00	12:00	Excursions in Laboratory building.
Lunch (12:00 - 13:00)		
12:00	13:00	Registration of Vladivostok participants in Middle Hall

Средний зал				
13:00	13:20	Opening Conference		
Section I. Physics of nanostructures and interfaces, self-organization processes, two-dimensional materials				
time		Name	Doklad	Affiliation
13:30	14:00	Gruznev D.V.	Pb-based low-dimensional structures on silicon	Institute of Automation and Control Processes FEB RAS
14:00	14:30	Kumar M.	Ultrafast Charge Carrier dynamics of topological insulators	CSIR-National Physical Laboratory
14:30	15:00	Bondarenko L.V.	Single layer nickel disilicide on surface and as embedded layer	Institute of Automation and Control Processes FEB RAS
15:00	15:15	Petrov A.	Morphological transformations on Si(111) surface induced by ($\sqrt{3}\times\sqrt{3}$)-Sn reconstruction formation	Rzhanov Institute of Semiconductor Physics SB RAS
15:15	15:30	Tsukanov D.A.	Surface conductivity study of ultrathin Li layers on the reconstructed Si(111) surface	Institute of Automation and Control Processes FEB RAS
15:30	15:45	Kapitan V.	Application of Convolutional Neural Networks for the Study of Spin Models	Far Eastern Federal University (FEFU)
15:45	16:00	Padalko M.	The Axial Next-Nearest Neighbor 2D Ising Model Polynomial Solution	Institute of Applied Mathematics FEB RAS
16:00	16:15	Rogilo D.	In situ imaging of van der Waals epitaxy and sublimation of the Bi ₂ Se ₃ (0001) surface	Rzhanov Institute of Semiconductor Physics SB RAS
16:15	16:30	Chernov A.	Valley polarization of trions in TMDC interfaced with iron garnet	Moscow Institute of Physics and Technology (MIPT)

Колонный зал				
Section III. Ferromagnetic and ferroelectric materials, including nanomaterials, a spintronics				
time		Name	Doklad	Affiliation
13:30	13:45	Samardak A.	Complex magnetostatic interactions in segmented Fe-Au nanowire arrays	Far Eastern Federal University (FEFU)
13:45	14:00	Burkovsky R.	Field-induced heterophase state in PbZrO ₃ thin films	Peter the Great Saint-Petersburg Polytechnic University
14:00	14:15	Klimov A.	Magnetoresistance of MIS structure based on PbSnTe:In crystalline topological insulator film	Rzhanov Institute of Semiconductor Physics SB RAS
14:15	14:30	Chernousov N.	Dependence of the Dzyaloshinskii-Moriya interaction and chiral damping effect on the roughness of the lower Pd layer in the Pd/Co/Pd system	Far Eastern Federal University (FEFU)
14:30	14:45	Mikhailova T.	Magnetoplasmonic structures with nanostructured layers of bismuth-substituted iron garnets	Vernadsky Crimean Federal University
14:45	15:00	Ivantsov R.	Features of magnetic and magneto-optical properties of lanthanum manganite	Kirensky Institute of Physics SB RAS
15:00	15:15	Namsaraev Zh.	Investigation of the dependence of current induced magnetization switching in the W-CoTb-Ru structure	Far Eastern Federal University (FEFU)
15:15	15:30	Suslin G.	Magnetic properties of epitaxial Pd/Co(d)/CoO/Pd structures promising for spin-orbitronics	Far Eastern Federal University (FEFU)
15:30	15:45	Kotelnikova A.	Effects of constant, pulse and pulse-reverse current modes on the electrodeposition of NiFe films	SSPA Scientific-Practical Materials Research Centre of NAS of Belarus
15:45	16:00	Ignatyeva D.	All-dielectric metasurface with tunable magneto-optical response	Vernadsky Crimean Federal University

Coffee break (16:30 - 17:00)

Sponsor session				
Plenary session				
		Name	Doklad	Affiliation
17:30	18:10	Hasegawa S.	Two-dimensional atomic-layer materials	The University of Tokyo
18:10	18:50	Pecz B.	2D nitrides grown in the confined space of graphene/SiC by intercalation and seen in the electron microscope	Institute for Technical Physics and Materials Science (MFA), Hungarian Academy of Science
18:50	19:30	Pavuna D.	Physics of artificial nanostructures and interfaces: The self-organization processes and quantum functionality	École Polytechnique Fédérale de Lausanne

Средний зал

Section V. Laser nanofabrication, all-dielectric materials, nanomaterials: fundamentals and applications

time	Name	Doklad	Affiliation
13:00	Manshina A.	Precision laser chemistry for functional metal and hybrid metal-carbon nanostructures.	Saint Petersburg State University
13:30	Dostovalov A.	Highly regular Laser-Induced Periodic Surface Structures Formed on Metals and Semiconductors.	Institute of Automation and Electrometry of the SB RAS
14:00	Zabotnov S.	Femtosecond laser modification of GST225 thin films: ripples fabrication and reversible phase transitions.	Lomonosov Moscow State University
14:30	Kulinich, S.	Laser-Prepared Nanomaterials for Gas Sensing.	Tokai University

technical break (15:00 - 15:15)

Section V. Laser nanofabrication, all-dielectric materials, nanomaterials: fundamentals and applications

15:15	Zharkova E.	Photoelectrical characteristics of laser-printed transition metal dichalcogenides alloy	Skolkovo Institute of Science and Technology
15:30	Borodaenko Yu.	Deep-Subwavelength Plasmon Nanoparticle-Embedded Laser-Induced Periodic Surface Structures on Silicon	Institute of Automation and Control Processes FEB RAS
15:45	Fakhrutdinova E.	Effect of laser treatment of TiO ₂ on optical and photocatalytic properties	Tomsk State University
16:00	Tselikov G.	Optical properties of transition metal dichalcogenide nanoparticles synthesized by laser ablation	Moscow Institute of Physics and Technology (MIPT)
16:15	Zuev D.	Laser-assisted nanofabrication of nanophotonic security labels.	ITMO University

Колонный зал

Section II. Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A3B5 and A2B6 heterostructures: experiment, calculations and technology

time	Name	Doklad	Affiliation
13:00	Shamirzaev T.S.	Dynamic electron spin polarization	Rzhanov Institute of Semiconductor Physics SB RAS
13:30	Dronov A.	Structure and optical properties of germanium nanowires subjected to thermal post-treatment	National Research University of Electronic Technology (MIET)
13:45	Luniakov Yu.	Pressure induced Mg ₂ Ge symmetry modifications- DFT evolutionary search results	Institute of Automation and Control Processes FEB RAS
14:00	Konenkova E.	Semipolar GaN layers on nanostructured silicon: the technology, the properties	Ioffe institute
14:15	Ponomarev S.	Low-temperature hysteresis of $\beta \rightleftharpoons \beta'$ phase transition in In ₂ Se ₃ /Si(111) films	Rzhanov Institute of Semiconductor Physics SB RAS

technical break (14:30 - 14:45)

Section VI. Photonic and electronic devices: integrated circuits, solar cells, nanophotonics, biophotonics

14:45	Udono H.	Development of single crystalline Mg ₂ Si substrate for Mg ₂ Si SWIR sensor	Ibaraki University
15:15	Lazarenko P.	Chalcogenide thin films for reconfigurable optical waveguide application	National Research University of Electronic Technology (MIET)
15:30	Manshina A.	Photo-switchable phosphonates with modulated bioactivity	Saint-Petersburg State University
15:45	Sapori D.	CuSCN as hole transport material for perovskite solar cells	ITMO University
16:00	Win Aung Nay	Studies on sensor properties of composite CuO/CNPs nanofilms obtained by electrophoretic synthesis	The Southwest State University (SWSU)
16:15	Adiguzel O.	Shape Reversibility and Thermoresponsive Reactions in Shape Memory Alloys	Firat University

Coffee break (17:00 - 17:30)

Plenary session

17:30	Suemasu T.	Formation of high-photoresponsivity BaSi ₂ films on glass substrate by sputtering for thin-film solar cell applications	University of Tsukuba
18:10	Shtansky	Nanostructured materials for fighting bacterial and fungal infections	National University of Science and Technology MISIS
18:50	Bogdanov	Linear and nonlinear physics of bound states in the continuum	ITMO University

28 APRIL

Lunch (12:00 - 13:00)

Средний зал				Колонный зал				
Section V. Laser nanofabrication, all-dielectric materials, nanomaterials: fundamentals and applications				Section IV. Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties				
time		Name	Doklad	time		Name	Doklad	Affiliation
13:00	13:15	Tumkin I.	Direct laser metallization from deep eutectic solvents: optimization of chemical and physical parameters	13:00	13:15	Ovchinnikov S.G.	Anomalous optical and magnetic properties in nanocrystalline LaCoO ₃ and GdCoO ₃	Kirensky Institute of Physics SB RAS
13:15	13:30	Shelaev A.	Local crystallization of Bi:YIG thin film by laser thermal annealing at controlled atmosphere	13:15	13:30	Gromov D.	Features of the Formation of Nanoparticles and Binary Nanoalloys during Thermal Evaporation and Condensation on an Inert Surface in Vacuum	National Research University of Electronic Technology (MIET)
13:30	13:45	Syubaev S.	Laser printing of c-Si hemispherical Mie-nanoresonators toward implicit anti-counterfeit labels	13:30	13:45	Neumoin A.	Mesoporous Na ₂ Ti ₃ O ₇ materials with a coral-like hierarchical architecture constructed by nanotubes: Synthesis and properties	Institute of Chemistry FEB RAS
13:45	14:00	Glukhenkaya V.	CW laser crystallization of GST thin films in multilayered conductive substrate for reflective display application	13:45	14:00	Shtarev D.	On the issue of obtaining heterostructures based on copper molybdates by solid-phase synthesis	Far Eastern Federal University (FEFU)
14:00	14:15	Starinsky S.	Dependence of nanosecond laser damage threshold of metal immersed into water on dynamic of liquid boiling.	14:00	14:15	Pleshkova A.	Influence of phenol red in Earl's solution on corrosion properties of coated and uncoated Mg alloy	Institute of Chemistry FEB RAS
14:15	14:30	Pavlyuk G.	Electrically-controlled deposition onto a hybrid superhydrophobic/superhydrophilic surface	14:15	14:30	Lebedev E.	Thermal management to control the combustion behavior of multilayer thermites Al-CuO	National Research University of Electronic Technology (MIET)
14:30	15:00	Sheremet E.	Laser-induced nanomaterial-polymer composites: properties, mechanisms and applications	14:30	14:45	Nomerovskii A.	Modification of the PEO-coating on MA8 Mg alloy using layered double hydroxide: electrochemical behavior, protective properties	Institute of Chemistry FEB RAS
				14:45	15:00	Sokolov A.	Core-shell Fe ₃ O ₄ @C nanoparticles for magneto-mechanical destroy of Ehrlich ascites carcinoma cells	Kirensky Institute of Physics SB RAS
15:00	15:15	Tarabrin M.	Cr:ZnS laser with depressed-cladding waveguide and the AR-microstructures	15:00	15:15	Voloshchuk I.	Technology for the fabrication of thermoelectric legs by screen printing	National Research University of Electronic Technology (MIET)
15:15	15:45	Lazarev V.	Ultrawideband antireflection microstructures for optical surfaces in the mid-infrared range.	15:15	15:30	Tishkevich D.	Electrodeposited functional Bi films for shielding applications against ionizing radiation	SSPA Scientific-Practical Materials Research Centre of NAS of Belarus
				15:30	16:00	Vakhrushev A.V.	Modeling the formation processes of multilayer nanosystems	Udmurt Federal Research Center of the Ural Branch of RAS
15:45	16:15	Kudryashov S.	Stealth scripts: photoluminescent microcoding in bulk diamonds by ultrashort laser pulses.	16:00	16:30	Modin E.	3D electron microscopy of nanomaterials	CIC Nanogune BRTA

Poster Session (16:30 - 17:30)

Plenary session				
time		Name	Doklad	Affiliation
17:30	18:10	Makarov S.	Halide perovskite based nanophotonics: from fundamentals to applications	ITMO University
18:10	18:50	Nakamura Yoshiaki	Nanostructure design for thermoelectrics	Osaka University
18:50	19:30	Dvurechenskii A.	Collective effects in Si based quantum dot nanomaterials to tune functionality of nano nanoelectronic and nanophotonic components	Rzhanov Institute of Semiconductor Physics SB RAS

29 APRIL

Lunch (12:00 - 13:00)

Средний зал

Section II. Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A3B5 and A2B6 heterostructures: experiment, calculations and technology			
time	Name	Doklad	Affiliation
13:00	13:30	Terai Y.	Growth and optical properties of ternary iron silicides Kyushu Institute of Technology
13:30	14:00	Tatsuoka H.	Synthesis of Si-based nanostructures from CaSi ₂ crystals using metal chloride powder, vapor and aqueous solution Shizuoka University
14:00	14:15	Lebedev M.	Coordination of atomic and electronic structure at chemically passivated n-InP(100) surfaces Ioffe Institute
14:15	14:30	Elkhouly A.	Transport and thermoelectric properties of FeVSb-based half-Heusler alloys National University of Science and Technology MISIS
14:30	14:45	Tkhorzhevskiy I.	Thermoreflectance method for thermal conductivity measurements of low dimensional objects Tydex LLC
14:45	15:00	Egorov A.	InGaAs/InGaAlAs and InGaAs/GaAsN superlattice based long wavelength VCSEL Alferov University
15:00	15:30	Migas D.B.	Structural features and quantum confinement effects in thin films of Mg ₂ Si and Ca ₂ Si Belarusian State University of Informatics and Radioelectronics

Колонный зал

Section IV. Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties			
time	Name	Doklad	Affiliation
13:00	13:30	Dronov A.	The role of low-dimensional effects in electrochemical synthesis of nanomaterials. National Research University of Electronic Technology (MIET)
13:30	13:45	Polishchuk V.	Electron paramagnetic resonance of single molecular magnets and their polyetherimide-based nanocomposites Institute of Chemistry FEB RAS
13:45	14:00	Dilla Sileshi	Cluster Analysis of Atomic Structures In Amorphous Alloys Far Eastern Federal University (FEFU)
14:00	14:15	Imshinetskiy I.	Influence of halloysite nanotubes incorporation on the properties of PEO layers formed on MA8 alloy Institute of Chemistry FEB RAS
14:15	14:30	Nazarkina Yu.	Effect of tungsten disk electrode rotation rate on the growth of anodic WO _x and its photocatalytic properties National Research University of Electronic Technology (MIET)
14:30	14:45	Zubar T.	Structure and mechanical properties of electrodeposited nanostructured Ni-Fe films SSPA Scientific-Practical Materials Research Centre of NAS of Belarus
14:45	15:00	Sokolov A.	Effects of group IV-VII elements doping on TiO ₂ electrochemical lithium storage performance Institute of Chemistry FEB RAS
15:00	15:15	Bandarenka H.	Effect of a metal oxides interlayers on the properties of silver nanoparticles in porous silicon for SERS spectroscopy Belarusian State University of Informatics and Radioelectronics

Coffee break (15:30 - 16:00)

Plenary session

16:00	16:40	Varnakov (Tarasov Ivan)	New ternary magnetic films of MAX phases Kirensky Institute of Physics SB RAS
16:40	17:20	Sidorenko A.	Topological features of quantum magnetotransport in Bi _{1-x} Sb _x (0 < x < 0.2) bicrystals Technical University of Moldova
17:20	18:00	Close Conference	