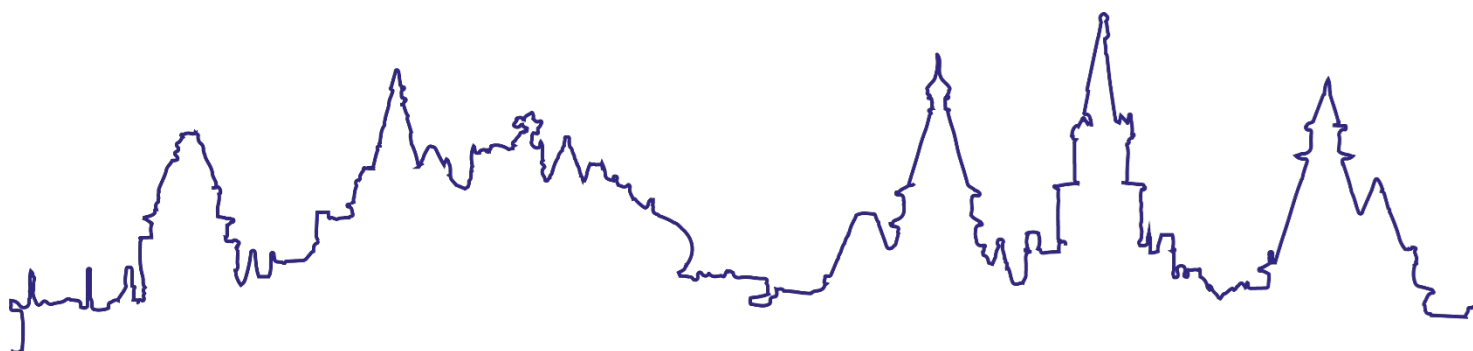
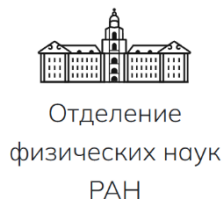


Fundamental Problems of Superconductivity

Conference program



Moscow • Sep 28 – Oct 4 • 2025



Program Committee

Co-chair
**Vladimir M.
Pudalov**

Co-chair
**Michael V.
Sadovskii**

Scientific Secretary
**Tatiana E.
Kuzmicheva**

**Iman N.
Askerzade**

**Igor S.
Burmistrov**

**Alexander I.
Buzdin**

**Evgueni V.
Chulkov**

**Ali
Gencer**

**Vadim A.
Grinenko**

**Maxim M.
Korshunov**

**Alexander S.
Mel'nikov**

**Igor A.
Nekrasov**

**Sergey G.
Ovchinnikov**

**Alexander L.
Rakhmanov**

**Dmitrii V.
Semenok**

**Viktor V.
Struzhkin**

**Valery V.
Valkov**

**Vitaly S.
Vysotsky**

**Evgeny P.
Krasnoperov**

**Grigory N.
Gol'tsman**

Organizing Committee

Chairman

**Andrey V.
Sadakov**

Deputy Chairman

**Alena Yu.
Levakhova**

Organizing Secretary

**Leonid A.
Morgun**

**Andrey E.
Borisov**

**Georgy V.
Rybal'chenko**

Monday, September 29

	HALL-1			HALL-2			HALL-3
	Section	Speaker	Title	Section	Speaker	Title	Posters
09:30 — 09:45	REGISTRATION						
09:45 — 10:00							
10:00 — 10:15							
10:15 — 10:30							
10:30 — 10:45							
10:45 — 11:00							
11:00 — 11:15	Opening	Program Commitee	Opening				
11:15 — 11:30	Opening	Marina Andrianova	Welcome word from ROSATOM				
11:30 — 11:45	COFFEE BREAK						
11:45 — 12:00							
	M. Eremetz Memorial session Chairman: Sergey Ovchinnikov						
12:00 — 12:15	Plenary (RTS)	Viktor Struzhkin	Progress in approaching room temperature superconductivity in hydrides				
12:15 — 12:30							
12:30 — 12:45							
12:45 — 13:00	Invited (RTS)	Vladimir Pudalov	Superconductivity in Hydrides at Nearly Room Temperature				
13:00 — 13:15							
13:15 — 13:30	Plenary (M)	Michael Sadovskii	Upper limit for superconducting transition temperature in electron – phonon superconductors: very strong coupling				
13:30 — 13:45							
13:45 — 14:00							
14:00 — 14:15	BREAK						
14:15 — 14:30							
14:30 — 14:45							
14:45 — 15:00							
	Chairman: Viktor Struzhkin						Poster session, Section A
15:00 — 15:15	RTS	Alexander Kvashnin	Simulation of formation of LaH ₁₀ under pressure by deep learning potentials				
15:15 — 15:30	RTS	Andrey Sadakov	Vortex Phase Transitions in Bismuth Hydride BiH ₂ at 169 GPa				
15:30 — 15:45	RTS	Maxim Grebenyuk	Superconductivity in Ca-Y-H at high pressures				
15:45 — 16:00	M	Alexey Menushenkov	The electronic mechanism for charge carrier pairing in real space in HTSC oxides based on BaBiO ₃				
16:00 — 16:15	M	Vadim Grinenko	Higher-order condensates in multi-component superconductors				
16:15 — 16:30	COFFEE BREAK						
16:30 — 16:45							
	Unconvenional superconductivity Chairman: Igor Burmistrov			Chairwoman: Alena Levakhova			Poster session, Section A
16:45 — 17:00	Invited (M)	Alexander Melnikov	Nonlocal superconducting pairing at interfaces of hybrid structures: new directions for engineering of the type of Cooper pairs	Yury Vysokikh (STC MTEON)	Modern scientific equipment for materials science		
17:00 — 17:15				Alexey Shamis (SPE group)	Introduction to the Scientific Equipment Group of Companies		
17:15 — 17:30	Invited (SQ)	Dmitry Efremov	Fermi Surface Topology and High-Order van Hove Singularities in Sr ₃ Ru ₂ O ₇	Nikolay Baranov (Microtechpro LLC)	Equipment, Service, Parts and Consumables for FIB, SEM and TEM		
17:30 — 17:45							
17:45 — 18:00	SQ	Mikhail Kalenkov	Absence of “fractional ac Josephson effect” in superconducting junctions				
18:00 — 20:30	WELCOME PARTY 18:00 — 20:30						

Tuesday, September 30

	HALL-1			HALL-2			HALL-3
	Section	Speaker	Title	Section	Speaker	Title	Posters
	Pnictides, spin-triplet Chairman: Vladimir Pudalov			Chairman: Ildar Abdukhanov			Poster session, Section A
10:00 — 10:15	Invited (SM)	Liang Keyi	Pure Nematic Transition Inside the Superconducting Dome of Iron Chalcogenide Superconductor $\text{FeSe}_{1-x}\text{Te}_x$	Invited (A)	Mikhail Moyzykh	High temperature superconductor: an affordable material for energy, science and transport	
10:15 — 10:30							
10:30 — 10:45	M	Svetoslav Kuzmichev	Doping Evolution of Na(Fe,Co)As Superconducting Gap Structure: Influence of Spin Fluctuations	Invited (A)	Pavel Degtyarenko	Investigation of the vortex structure pinning in irradiated 2G HTS wire	
10:45 — 11:00	Plenary (M)	Vladimir Zyuzin	Odd frequency spin-triplet pairing in disordered electron liquid				
11:00 — 11:15				A	Alexey Prutkov	Alternating Current Oscillation Shaper for Superconductor Research	
11:15 — 11:30							
11:30 — 12:00	COFFEE BREAK						
	Nickelates, cuprates Chairman: Wei Ku			Chairman: Sergey Pokrovskii			Poster session, Section A
12:00 — 12:15	Invited (M)	Ivan Leonov	Electronic structure, orbital-selective renormalizations, and magnetic correlations in nickelate superconductors				
12:15 — 12:30							
12:30 — 12:45	Invited (M)	Sergey Ovchinnikov	Effects of mean field and fluctuations in HTSC cuprates	A	Konstantin Kovalev	Synchronous electric machines with superconducting stator and rotor windings	
12:45 — 13:00							
13:00 — 13:15	Invited (M)	Elena Shneider	Competition of polaronic and bipolaronic effects in the normal state of an electron-correlated system	Invited (A)	Ildar Abdyukhanov	Development of superconducting materials at Bochvar Institute	
13:15 — 13:30							
13:30 — 13:45	M	Anna Myasnikova	Systems with strong long-range electron-phonon coupling and cuprates-like dispersion: single nature of pseudogap, charge ordering and superconducting phases and other peculiarities of two-liquid system of charge carriers	A	Irina Martirosyan	Combined experimental and numerical study of normal zone propagation in non-insulated HTS coils	
13:45 — 14:00	M	Valerii Kuzmin	Dynamic spin response within the effective Hubbard model for cuprates	A	Nikolai Ivanov	Electric machines with HTS windings	
14:00 — 15:00	BREAK						
	Chairman: Dmitry Efremov			Chairman: Nikolai Ivanov			Poster session, Section A
15:00 — 15:15	Plenary (M)	Maxim Kagan	Unconventional superconductivity in low density electron systems and conventional superconductivity in metallic hydrogen and hydrogen metallic alloys	A	Fedor Kazantsev	Superconductive undulators used for synchrotron radiation generation produced by Budker INP	
15:15 — 15:30				A	Nikolai Balashov	Development of a superconducting current switch based on the 2G HTSC for fault current limiter in high voltage grids	
15:30 — 15:45				A	Alena Levakhova	Pilot project of 35T HTSC magnet for physics and chemistry apps	
15:45 — 16:00	SM	Valery Orlov	Compounds with Giant Magnetoelectric Effect as a Possible New Class of Materials for Obtaining High-Temperature Superconductors	A	Dmitrii Yashkin	Eigenmodes of the radial current decay in no-insulation HTS coils	
16:00 — 16:15	SM	Ilnur Gimazov	Effect of fluctuations on the Microwave Response in FeSeS near the nematic QCP	A	Ludmila Uspenskaya	Diode effect in bilayer structures based on yttrium iron garnet - superconductor	
16:15 — 16:30	SM	Anna Kolbatova	Signatures of surface magnetic disorder in single-crystal superconducting titanium nitride films				
16:30 — 17:00	COFFEE BREAK						
17:00 — 18:30	ROUND TABLE DISCUSSION Chairman: Vladimir Pudalov						
18:30 — 21:00	POSTER SESSION (SECTION A) 18:30 — 21:00						

Wednesday, October 1

	HALL-1			HALL-2			HALL-3
	Section	Speaker	Title	Section	Speaker	Title	Posters
	Unconventional superconductors Chairman: Alexander Melnikov						Poster session, Sections M, RTS, SQ, SM
10:00 — 10:15	Plenary (M)	Wei Ku	A universal low-temperature fluctuation of unconventional superconductors revealed				
10:15 — 10:30							
10:30 — 10:45							
10:45 — 11:00	Plenary (M)	Maxim Korshunov	Impurity effect on an unconventional superconducting state in iron-based materials				
11:00 — 11:15							
11:15 — 11:30							
11:30 — 12:00	COFFEE BREAK						
	Vortex matter Chairman: Cedomir Petrovic						Poster session, Sections M, RTS, SQ, SM
12:00 — 12:15	Plenary (SQ)	Pratap Raychaudhuri	Inverse melting of the vortex lattice in a superconducting thin film				
12:15 — 12:30							
12:30 — 12:45							
12:45 — 13:00	SQ	Andrey Sadakov	Vortex matter and strong pinning in underdoped PrFeAs(O,F) with regularly distributed atomic-sized defects				
13:00 — 13:15	Invited (SM)	Xianggang Qiu	Visualization of skyrmion-superconducting vortex pairs in a chiral magnet-superconductor heterostructure				
13:15 — 13:30							
13:30 — 13:45	SM	Konstantin Pigalskiy	Magnetic pinning and record critical current enhancement in iron-doped YBaCuO				
13:45 — 14:00	SQ	Konstantin Arutyunov	Interference of nonequilibrium quasiparticle excitations in a superconductor				
14:00 — 15:00	BREAK						
	Chairman: Vladimir Menshov			Chairman: Pratap Raychaudhuri			Poster session, Sections M, RTS, SQ, SM
15:00 — 15:15	Invited (SM)	Eduard Deviatov	Superconducting proximity effect for topological semimetals.				
15:15 — 15:30							
15:30 — 15:45	Invited (M)	Yi-Fan Jiang	Numerical evidence of pair density wave superconductivity in strongly correlated systems	SQ	Elmira Baeva	Flux-flow instability in superconducting single-crystal TiN films caused by heated electrons	
15:45 — 16:00							
16:00 — 16:15	Invited (SM)	Lun-Hui Hu	Superconducting proximity effects in nodal and nodeless altermagnets	SM	Evgenii Rakhmanov	Iron-based superconductors of the 245 family: phase composition and morphology	
16:15 — 16:30							
16:30 — 17:00	COFFEE BREAK						
	Pnictides Chairman: Maxim Korshunov						Poster session, Sections M, RTS, SQ, SM
17:00 — 17:15	Invited (SQ)	Igor Nekrasov	Peculiarities of the electronic structure of multilayer high-Tc pnictides				
17:15 — 17:30							
17:30 — 17:45	Invited (SQ)	Tatiana Kuzmicheva	Observation of the Leggett collective plasma oscillation and the spin exciton in two-gap superconductors using SNS-Andreev spectroscopy				
17:45 — 18:00							
18:00 — 18:15	Invited (SQ)	Cedomir Petrovic	Disorder in FeSe _{1-x} S _x (0≤x≤1) superconducting crystals				
18:15 — 18:30							
18:30 — 21:00	POSTER SESSION (SECTIONS M, RTS, SQ, SM) 18:30 — 21:00						

Thursday, October 2

	HALL-1			HALL-2			HALL-3
	Section	Speaker	Title	Section	Speaker	Title	Posters
	Unconventional superconductivity Chairman: Igor Nekrasov			Chairman: Pavel Degtyarenko			
10:00 — 10:15	Invited (SQ)	Ding Zhang	Josephson Tunneling and Thermoelectric Transport in Exfoliated Cuprate Flakes				
10:15 — 10:30							
10:30 — 10:45	Invited (SQ)	Igor Burmistrov	Spatially-resolved dynamics of the amplitude Schmid-Higgs mode in disordered superconductors	Invited (A)	Vitaly Vysotsky	Status and trends of large-scale applications of superconductivity in 2025	
10:45 — 11:00							
11:00 — 11:15	Plenary (SQ)	Giovanni Ummarrino	Can the noble metals (Au, Ag, and Cu) be superconductors?	Invited (A)	Sergei Pokrovskii	Superconducting magnet system for small-scale spherical tokamak MEPHIST-1	
11:15 — 11:30							
11:30 — 11:45				Invited (A)	Yu Bao	Design and application of the Muon Source Project at CSNS	
11:45 — 12:00	M	Alexander Moskvín	Superconductivity in Jahn-Teller magnets				
12:00 — 12:15	COFFEE BREAK						
12:15 — 12:30							
12:30 — 12:45							
12:45 — 13:00							
13:00 — 13:15	EXCURSION						
13:15 — 13:30							
13:30 — 13:45							
13:45 — 14:00							
14:00 — 14:15							
14:15 — 14:30							
14:30 — 14:45							
14:45 — 15:00							
15:00 — 15:15							
15:15 — 15:30							
15:30 — 15:45							
15:45 — 16:00							
16:00 — 16:15							
16:15 — 16:30							
16:30 — 16:45							
16:45 — 17:00							
17:00 — 17:15							
17:15 — 17:30							
17:30 — 17:45							
17:45 — 18:00							
18:00 — 18:15							
18:15 — 18:30							
18:30 — 21:30	BANQUET 18:30 — 21:30						

Friday, October 3

	HALL-1			HALL-2			HALL-3
	Section	Speaker	Title	Section	Speaker	Title	Posters
	Chairman: Andrey Sadakov						Poster session, Student posters
10:00 — 10:15	RTS	Alexander Kvashnin	Direct prediction of Eliashberg spectral function with Euclidean neural networks				
10:15 — 10:30	SQ	Andrey Muratov	Optical conductivity of $(\text{Na}_{0.33}\text{K}_{0.33}\text{Rb}_{0.33})_{0.8}\text{Fe}_2\text{Se}_2$ single crystals				
10:30 — 10:45	M	Yurii Aleshchenko	Optical Studies of $\text{K}_{0.8}\text{Fe}_{1.7}(\text{Se}_{0.75}\text{S}_{0.27})_2$ Single Crystals				
10:45 — 11:00	Invited (SQ)	Yuriy Makhlin	Josephson current and imperfections in a planar topological junction				
11:00 — 11:15							
11:15 — 11:30	SQ	Oleg Zuev	Superconducting photocurrents induced by structured electromagnetic radiation				
11:30 — 12:00	COFFEE BREAK						
	Chairman: Svetoslav Kuzmichev						Poster session, Student posters
12:00 — 12:15	SQ	Anton Beshpalov	Theory of subgap states in helical magnetic atom chains on the surface of a superconductor				
12:15 — 12:30	SQ	Eduard Kuchinsky	Thermopower and Hall effect in correlated metals and doped Mott-Hubbard insulators: DMFT approximation				
12:30 — 12:45	Invited (SQ)	Igor Morozov	Effect of substitution on the structural and superconducting properties of $\text{Ba}(\text{Ag}_{1.8-x}\text{TM}_x)\text{Bi}_2$ (TM=Cu, Au)				
12:45 — 13:00							
13:00 — 13:15	Invited (SQ)	Anton Zlotnikov	Gapless and gapped vortex bound states in higher-order topological superconductors				
13:15 — 13:30							
13:30 — 13:45	Invited (SQ)	Igor Rusinov	Electronic states emerging at magnetic domain walls on the surface of semiconductors with band structure topology				
13:45 — 14:00							
14:00 — 15:00	BREAK						
	Chairman: Igor Rusinov			Chairman: Vladimir Pudalov			Poster session, Student posters
15:00 — 15:15	Invited (SM)	Jianda Wu	Spin dynamics and dark particles in a weak-coupled quantum Ising ladder with D(1)8 spectrum	SQ	Ilya Makarov	Electronic structure of the CuO monolayer in the paramagnetic phase considering the Coulomb interactions	
15:15 — 15:30				SQ	Maxim Vysotin	Theoretical analysis of interplay between WSe_2 moire bilayer geometry and its electronic structure	
15:30 — 15:45	Invited (SM)	Andrey Gippius	NMR spectroscopy of transition metal pnictide and gallide superconductors and related compounds	SQ	Pavel Grigoriev	Density of electronic states, resistivity and superconducting transition temperature in density-wave compounds with imperfect nesting	
15:45 — 16:00							
16:00 — 16:30	COFFEE BREAK						
16:30 — 18:00	Selected 5-min student talks 16:30 — 18:00						
18:00 — 18:15							
18:15 — 18:30							
18:30 — 18:45							
18:45 — 19:00							
19:00 — 19:15		Program committee	Best student presentation awards: FPS25				
19:15 — 19:30		Wise Man 1	Concluding remarks: Theory				
19:30 — 19:45		Wise Man 2	Concluding remarks: Experiment				
19:45 — 20:00	Closing						

Poster Sessions Monday & Tuesday, Hall-3		
#	Section A	
A1	Irina Deryagina	Structure and Electrical Conductivity of High-Strength Cu-Nb Microcomposite Depending on Deformation
A2	Andrey Terentiev	High-Q superconducting terahertz Fabry-Pérot resonator
A3	Anastasia Maksimova	Joint influence of different types of artificial defects on the critical current of HTS tape
A4	Anastasia Maksimova	Effect of vortex pinning configuration on transient processes during a microsecond current pulse
A5	Vladimir Kaderov	Design and analysis of fully superconducting electric machines for transportation systems
A6	Sergey Pokrovskii	Influence of cooling conditions and the field cooling gap on bearings functional characteristics based on the HTS tapes
A7	Dmitry Aleksandrov	Calculation of operating parameters of spherical tokamak's superconducting magnetic system
A8	Mark Rikel	Strain Assessment in YBCO Layer of Industrial 2G HTS Wires
A9	Yuri Kovalev	Internal Josephson effect in laboratory and space conditions
A10	Evgeny Zhardetsky	Application of the 3D-MLSI program for designing superconducting interferometers.
A11	Fedor Razorenov	Calculation and Experimental Measurement of Inductances in Superconducting Structures
A12	Burkhan Massalimov	Study of Critical Current of Industrial 2G HTS-Wire with Different Stoichiometry of Gd-Based Composition in
A13	Ilya Pavlov	Microscopic Parameters of Superconducting MoRe Ultra-Thin Films for Single-Photon Detection
A14	Kristina Dikhtievskaya	Prospects for the Development of Palladium-Based Superconductors: From Theory to Experiment
A15	Irina Martirosyan	Comprehensive analysis of normal zone propagation in multi-tape superconducting cables for magnetic energy storage
A16	Kirill Rudakov	550 GHz mixer prototype
A17	Kira Khilay	Modifying thermal coupling in superconducting nanowire single-photon detector by tuning amorphous
A18	Dmitry Abin	Influence of Ion Irradiation on Superconducting Properties of HTSC Tapes in a Helical Cable
A19	Andrey Lomakin	Study of the dependence of electron-phonon scattering time on disorder in thin NbN films
A20	Alexey Mashirov	A trapped field in a rings stack of high temperature superconducting tape
A21	Yulian Baryshnikov	Magnetorheological polishing of HTSC substrates based on spherical particles obtained by the liquid anode method
A22	Nikolay Kuzmichev	Simulation of the NbN film heating process by a current pulse
A23	Valentin Guryev	The essence of the critical current angular dependencies asymmetry observed on coated conductors
A24	Andrey Sedov	Superconducting magnets for synchrotron radiation source, developed at the BINP
A25	Akhmad Shodiev	The effect of 5 MeV electron irradiation at 150 K on the structure and magnetic properties of YBCO based HTSC tape
A26	Ekaterina Ivanova	A Novel Method for Measuring Lower Critical Field of Small-Sized Superconductors
A27	Denis Karpukhin	Investigation of friction and lifting forces during cryostat movement
A28	Svetlana Veselova	Influence of Filamentation on Magnetization Losses in Laser-Processed 2G HTS Tapes
A29	Selbi Khydyrova	Fabrication and investigation of superconducting thin Nb-Al films with A15-structure
A30	Oleg Kovalchuk	Helium-free magnetic system MRI 1.5T
Poster Sessions Wednesday & Thursday, Hall-3		
#	Sections M, SM, SQ, RTS	
Z1	Razmik Babayan	Electron-phonon interaction with forward scattering in FeSe monolayers on SrTiO ₃
Z2	Dair Palchaev	Relation of anomalies of temperature dependences of resistance with thermal deformation of the YBCO lattice
Z3	Zhariyat Murlieva	Superconductivity of the materials undergoing anharmonicity sign inversion
Z4	Igor Shein	Multilayer multicomponent superconducting systems based on FeAs
Z5	Danil Ivanov	The role of spin-orbit coupling in the formation of the Fermi surface in multiorbital models of iron pnictides
Z6	Egor Larionov	Superconducting state of iron pnictides in a ten-Orbital model with a realistic Fermi surface
Z7	Anastasia Ilina	SnS-andreev spectroscopy of superconducting polycrystalline pnictide with underdoped composition BaFe _{2-x} Ni _x As ₂ at x=0.07
Z8	Kirill Mitsen	Physical nature of the pseudogap phase and anomalous transfer of spectral weight in underdoped cuprates
Z9	Denis Gokhfeld	Pinning enhancement in YBCO by magnetic nanoparticles: No royal roads
Z10	Maksim Vasyakin	Usadel theory of dirty altermagnet-superconductor hybrid systems
Z11	Alena Levakhova	Magnetic and superconducting properties of EuRbFe ₄ As ₄
Z12	Ruslan Kinzibaev	High frequency dynamic response of Abrikosov vortices: time-dependent Ginzburg-Landau approach.
Z13	Alexey Medvedev	Characterization and synthesis of superconductors of CaAF ₄ As ₄ composition (A = K, Rb, Cs)
Z14	Maria Soldatenkova	Investigation of critical current in micron wide NbN single photon detectors
Z15	Ivan Moskal	Cuprate superconducting thin films for heterostructures with strong spin-orbit interaction interface
Z16	Lyudmila Uspenskaya	Control of magnetoresistance of Py/Nb heterostructure using hysteresis properties of magnetic domain structure
Z17	Dmitry Annenkov	Domain wall superconductivity in van der Waals structures with ferroelectric ordering
Z18	Elizaveta Tarkaeva	High-performance amorphous superconducting rhenium films by e-beam evaporation
Z19	Valeria Ilevleva	Properties of graphene placed on an array of superconducting islands
Z20	Ekaterina Ivanova	Local magnetization and SNS-Andreev spectroscopy of layered iron-free pnictide superconductor
Z21	Maria Feshina	Synthesis and growth of single crystals of a new topologically nontrivial compound CaSn ₂ As ₂
Z22	Alexey Gippius	Synthesis of stoichiometric superconductors KCa ₂ Fe ₄ As ₄ F ₂ and RbCa ₂ Fe ₄ As ₄ F ₂

Z23	Artem Denishchenko	Novel high-entropy superconductor ($\text{Na}_{0.2}\text{K}_{0.2}\text{Rb}_{0.2}\text{Sr}_{0.2}\text{Ba}_{0.2}$) Fe_2As_2
Z24	Maria Krylova	R&D on superconducting NbTi coaxial cables for quantum computers
Z25	Ilya Nikitchenkov	Tunneling Spectroscopy of $\text{Na}(\text{Fe},\text{Co})\text{As}$ and $\text{Ba}(\text{Fe},\text{Ni})_2\text{As}_2$ Pnictides with Variable Electron Doping in the Normal State
Z26	Tatiana Kuzmicheva	Comparison of the Superconducting Properties of the Iron Selenides with Isovalent Substitution
Z27	Svetoslav Kuzmichev	Three-Gap Superconductivity in LiFeAs
Z28	Konstantin Arutyunov	Induced superconductivity in organic polymer
Z29	Yunjing Gao	Mesons in a quantum Ising ladder
Z30	Alena Levakhova	$\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ single crystal: microstructure, vortex matter and Andreev spectroscopy
Z31	Anatoly Prishchepa	Vortex state in a topological superconductor RbZnBi
Poster Session Friday, Hall-3		
#	Student posters, all sections	
S1	Andrey Terentiev	High-Q superconducting terahertz Fabry-Pérot resonator
S2	Vladimir Kaderov	Design and analysis of fully superconducting electric machines for transportation systems
S3	Dmitry Aleksandrov	Calculation of operating parameters of spherical tokamak's superconducting magnetic system
S4	Evgeny Zhardetsky	Application of the 3D-MLSI program for designing superconducting interferometers.
S5	Fedor Razorenov	Calculation and Experimental Measurement of Inductances in Superconducting Structures
S6	Burkhan Massalimov	Study of Critical Current of Industrial 2G HTS-Wire with Different Stoichiometry of Gd-Based Composition in Strong Magnetic Fields
S7	Ilya Pavlov	Microscopic Parameters of Superconducting MoRe Ultra-Thin Films for Single-Photon Detection
S8	Kristina Dikhtievskaya	Prospects for the Development of Palladium-Based Superconductors: From Theory to Experiment
S9	Andrey Sedov	Superconducting magnets for synchrotron radiation source, developed at the BINP
S10	Akhmad Shodiev	The effect of 5 MeV electron irradiation at 150 K on the structure and magnetic properties of YBCO based HTSC tape
S11	Ekaterina Ivanova	A Novel Method for Measuring Lower Critical Field of Small-Sized Superconductors
S12	Denis Karpukhin	Investigation of friction and lifting forces during cryostat movement
S13	Svetlana Veselova	Influence of Filamentation on Magnetization Losses in Laser-Processed 2G HTS Tapes
S14	Selbi Khydyrova	Fabrication and investigation of superconducting thin Nb-Al films with A15-structure
S15	Razmik Babayan	Electron-phonon interaction with forward scattering in FeSe monolayers on SrTiO_3
S16	Danil Ivanov	The role of spin-orbit coupling in the formation of the Fermi surface in multiorbital models of iron pnictides
S17	Egor Larionov	Superconducting state of iron pnictides in a ten-Orbital model with a realistic Fermi surface
S18	Anastasia Ilina	SnS-andreev spectroscopy of superconducting polycrystalline pnictide with underdoped composition $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ at $x=0.07$
S19	Maksim Vasyakin	Usadel theory of dirty altermagnet-superconductor hybrid systems
S20	Ruslan Kinzibaev	High frequency dynamic response of Abrikosov vortices: time-dependent Ginzburg-Landau approach.
S21	Alexey Medvedev	Characterization and synthesis of superconductors of $\text{CaAFe}_4\text{As}_4$ composition ($A = \text{K}, \text{Rb}, \text{Cs}$)
S22	Maria Soldatenkova	Investigation of critical current in micron wide NbN single photon detectors
S23	Ivan Moskal	Cuprate superconducting thin films for heterostructures with strong spin-orbit interaction interface
S24	Dmitry Annenkov	Domain wall superconductivity in van der Waals structures with ferroelectric ordering
S25	Elizaveta Tarkaeva	High-performance amorphous superconducting rhenium films by e-beam evaporation
S26	Valeria Ileva	Properties of graphene placed on an array of superconducting islands
S27	Ekaterina Ivanova	Local magnetization and SNS-Andreev spectroscopy of layered iron-free pnictide superconductor BaPd_2As_2
S28	Maria Feshina	Synthesis and growth of single crystals of a new topologically nontrivial compound CaSn_2As_2
S29	Alexey Gippius	Synthesis of stoichiometric superconductors $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ and $\text{RbCa}_2\text{Fe}_4\text{As}_4\text{F}_2$
S30	Artem Denishchenko	Novel high-entropy superconductor ($\text{Na}_{0.2}\text{K}_{0.2}\text{Rb}_{0.2}\text{Sr}_{0.2}\text{Ba}_{0.2}$) Fe_2As_2
S31	Ilya Nikitchenkov	Tunneling Spectroscopy of $\text{Na}(\text{Fe},\text{Co})\text{As}$ and $\text{Ba}(\text{Fe},\text{Ni})_2\text{As}_2$ Pnictides with Variable Electron Doping in the Normal State
S32	Yunjing Gao	Mesons in a quantum Ising ladder
S33	Kira Khilay	Modifying thermal coupling in superconducting nanowire single-photon detector by tuning amorphous sub-layer

Sponsors



РОСАТОМ

rosatom.ru

ЭМТИОН

mteon.ru



LANHIT®

HIGH PURITY MATERIALS

lanhit.ru



Микротехпро

microtechpro.ru



КРИОСИСТЕМЫ
ПРЕВОСХОДСТВО ТЕХНОЛОГИЙ

cryosystems.ru



cryotrade.ru



imc-systems.ru

Advatex

advatex.ru



spegroup.ru