

List of Talks

Abdel-Aty Mahmoud	Entanglement of Multi-Qubit System
Accardi Luigi	Extensions of quantum mechanics and quantum field theory canonically emerging from the theory of orthogonal polynomials
Achasov Nikolay Nikolaevich	<u>The fate of light scalar mesons</u>
Ageev Dmitry	<u>Chaos, operator size growth and holography</u>
Akhmedov Emil	<u>Out of equilibrium QFT in strong scalar wave background</u>
Alekseev Georgy Andreevich	<u>Nonlinear interaction of arbitrarily strong gravitational and electromagnetic waves in the expanding universe</u>
Altaisky Mikhail	<u>Wavelet regularization for gauge theories</u>
Alvarez-Castillo David Edwin	<u>The neutron star equation of state in the multi-messenger era</u>
Arbuzov Andrej Borisovich	<u>Conformal symmetry breaking in the Standard Model</u>
Arbuzov Boris Andreevich	<u>N.N. Bogoliubov compensation approach and effective interactions in the Stanard Model</u>
Arefeva Irina Yaroslavna	<u>Holography for nonperturbative study of QFT</u>
Bai Chengming	<u>Deformations and their controlling cohomologies of O-operators</u>
Baushev Anton Nikolaevich	<u>The radius, at which a galaxy group stops the Hubble stream, and the group mass: an exact analytical solution</u>
Bednyakov Alexander	<u>Light scalars in NMSSM and $B \rightarrow K^* \ell \ell$ angular observables</u>
Belokurov Vladimir Victorovich	<u>Functional integrals in quantum models invariant under the group of diffeomorphisms</u>
Berezin Victor Alexandrovich	<u>Surface terms in the action integrals of Horndesi-type theories</u>
Biryukov Alexander Alexandrovich	The probability of transition of the system in space quantum-random events and the equations of quantum theory
Blaschke David Bernhard	<u>Boiling QCD in heavy-ion collisions, neutron star mergers and supernovae</u>
Bogoliubov Nikolay Mikhailovich	<u>The partition function of the four-vertex model in inhomogeneous external field</u>
Bogolyubov Nikolai Nikolaevich	<u>Some constructive aspects of the current algebra representations and the factorized structure of the quantum integrable many-particle Schrödinger type models</u>

Boos Eduard	<u>SMEFT approach to BSM physics</u>
Boos Hermann	<u>Correlation functions of integrable models</u>
Bork Leonid Vladimirovich	<u>Collinear OPE and Resummation in N=4 SYM</u>
Borowiec Andrzej Zdzislaw	<u>Hopf algebroids as a model for description of quantum phase space</u>
Bru Jean-Bernard	<u>Macroscopic Long-Range Dynamics of Fermions and Quantum Spins on the Lattice</u>
Bures Martin	<u>Wigner function positivity of Bures and Hilbert-Schmidt ensembles of qubit and qutrit</u>
Bystritskiy Yuri	<u>Electroweak radiative corrections at one loop level to Bhabha scattering for Belle II experiment</u>
Chetyrkin Konstantin Grigorievich	<u>Multiloop Renormalization Group: status and recent developments</u>
Chevizovich Dalibor	<u>On the propagation of electromagnetic pulses through quantum metamaterials</u>
Chizhov Alexei	<u>Quantum correlations in a quasi 1D macromolecular chain with single-vibronic excitation</u>
Das Chitta Ranjan	<u>Neutrino mass and singlet in BSM</u>
Derkachov Sergey	<u>Separation of variables and calculation of the Feynman diagrams</u>
Dobrev Vladimir Krastev	<u>Multiparameter quantum Minkowski space-time</u>
Dorokhov Alexander	<u>Hadronic contributions to the Lamb shift of muonic nuclei</u>
Exner Pavel	<u>Dirac operators with delta-shell interactions: spectral and scattering properties</u>
Fadin Victor Sergeevich	<u>BFKL equation: status and problems</u>
Faustov Rudolf	<u>Properties of Baryons in the Relativistic Quark Model</u>
Fiziev Plamen Petkov	<u>New Results for Quasinormal Modes of Gravitational Waves</u>
Flach Sergej	<u>Ergodization Times of Weakly Nonintegrable Interacting Many-Body Systems</u>
Fomin Vladimir Mikhailovich	<u>Topology- and geometry-driven quantum phenomena in semiconductor and superconductor nanoarchitectures</u>
Fursaev Dmitri Vladimirovich	<u>Massless cosmic strings in expanding Universe</u>
Galkin Vladimir	<u>Semileptonic decays of heavy baryons</u>
Ganbold Gurjav	<u>Mesons and Glueballs, the Strong Effective Coupling within Analytic Confinement</u>
Gerdt Vladimir	<u>Algorithmic analysis of PDE systems</u>
Ginzburg Ilya	<u>Problems with variable Hilbert space in quantum mechanics</u>
Golubtsova Anastasia	<u>On the drag force of a heavy quark via the Kerr-AdS/CFT correspondence</u>

Gorbunov Dmitry	Realistic inflation: Higgs on top of scalaron
Gorsky Alexander	Resummation of instantons in Omega-deformed SYM and holography
Gromov Nikolay Alexeevich	Standard Model at high energies due to group contraction
Henner Victor	Overlapping resonances: K-matrix method vs Breit-Wigner unitary approach - advantages and disadvantages
Hnatic Michal	Quantum field theory methods in complex systems of classical physics
Ilkaev Radiy Ivanovich	N.N. Bogolyubov is an outstanding scientist and the founder of the mathematical school at KB-11
Inozemcev Oleg Valerievich	Towards rigorous formulation of ETH
Isaev Alexey Petrovich	Twistorial and space-time description of massless infinite spin (super)particles and fields
Ivanov Evgeny Alekseevich	Supersymmetric Calogero from gauging in superspace
Ivanov Mikhail	Doubly charmed baryons
Jenkovszky Laszlo Laszlovich	Gluon-gluon scattering and glueball spectroscopy
Jurcisin Marian	Anomalous scaling in turbulence
Kalmykov Mikhail	Differential Reduction versus Integration-by-Parts
Kataev Andrei Lvovich	AVV Triangle anomaly diagram in $SU(N_c)$ in perturbation theory and combined manifestation of axial and conformal anomalies + consideration of the conformal symmetry limit results
Katanaev Mikhail Orionovich	Geometric theory of defects, 't Hooft-Polyakov monopole, and disclinations
Kazakov Dmitry Igorevich	Bogoliubov R-operation in Non-renormalizable Theories
Kazakov Vladimir Aleksandrovich	Conformal Fishnet Theory at any dimension
Khramtsov Mikhail	Spontaneous symmetry breaking in the SYK model
Kirpichnikov Dmitry Viktorovich	New limits on hidden sector from NA64 experiment
Kolganova Elena	Van der Waals three-body systems
Korchemsky Gregory	Energy correlations at conformal collider
Korobov Vladimir Ivanovich	Precision Physics of the Coulomb Three-Body Systems
Koshelev Alexey	Analytic infinite derivative gravity to become quantum gravity
Kotikov Anatoly	On the Landau-Khalatnikov-Fradkin transformation and the mystery of even zeta-values in

	Euclidean massless correlators
Kotov Andrey	Lattice study of QCD phase diagram in (B,T,μ) space
Kozlov Valery Vasil'evich	Polynomial conservation laws of quantum systems
Kozyrev Sergei	Nonlinearity and quantum free statistics
Krasnikov Nikolai Valerievich	Search for light dark matter
Krivosos Sergey Olegovich	Supersymmetric Calogero models
Kuzemsky Alexander Leonidovich	Time evolution of open nonequilibrium systems and irreversibility
Lenshina Natalia Dmitrievna	Minimal Subtractions without Dimensional Regularization
Leonidov Andrey	Fluctuations in relativistic anisotropic hydrodynamics
Lukierski Jerzy Andrzej	Quantum-deformed twistors
Machavariani Alexander Irakly	Bogolyubov-Medvedev-Polivanov S-matrix method and its applications for the few body systems and high energy physics
Manko Vladimir Ivanovich	Conventional Quantum statistics with probability distribution describing quantum system states
Matveev Victor Anatolievich	N.N. Bogoliubov and school of theoretical physics in Dubna
Mayburov Sergey	Nuclear decay oscillations: model and experimental update
Melezhik Vladimir Stepanovich	Confinement-induced resonances in two-center problem
Morzhin Oleg	Time optimal control of two-level open quantum systems
Motovilov Alexander	Unphysical sheets and resonances in the Friedrichs-Faddeev model
Nazmitdinov Rashid	From chaos to order in finite fermi-systems: periodic orbits and quantum degeneracy
Nesterenko Alexander	Dispersive approach to QCD and its applications
Nevzorov Roman Borisovich	E₆ inspired composite Higgs model and baryon asymmetry generation
Neznamov Vasily Petrovich	Quantum mechanics of stationary states of particles in external singular fields of black holes with event horizons of zero thickness
Nurmagambetov Alexei	Firewalls in spinning black holes
Onishchenko Andrei	Elliptic master integrals and non-relativistic QCD
Pechen Alexander	Uncomputability of quantum control
Petrov Vladimir Alexeyevitch	Diffraction Scattering in QCD

Petrovic Srdjan	Classical and Quantum Crystal Rainbows
Pikelner Andrey	Cutting four-loop massless propagators
Pismak Yuri Mikhailovich	Basic principles of quantum field theory in modeling the interaction of quantum electrodynamics fields with two-dimensional materials
Plakida Nikolay Maksimilianovich	Superconductivity in electronic systems with strong correlations
Plyushchay Mikhail	Exotic nonlinear supersymmetry and integrable systems
Pozdeeva Ekaterina	Multifield Superpotential Method in Cosmological Models
Pupyshev Vasily	Bohr-Zommerfeld quantization rule in the case of decreasing power potential
Rasulova Mukhayo	The BBGKY hierarchy of quantum kinetic equations and its application for information technology
Rubakov Valery Anatolyevich	Towards bouncing and Genesis cosmologies
Ryzhov Valentin	Berezinskii-Kosterlitz-Thouless transition and melting scenarios of two-dimensional systems
Sakbaev Vsevolod Zhanovich	Random walks and Hamiltonian flows in the infinite dimensional phase space
Saleev Vladimir Anatolievich	Dijet correlations in miltijet production in the Regge limit of QCD
Savvidy George	Maximally Chaotic Dynamical Systems of Anosov-Kolmogorov
Shirokov Dmitry Sergeevich	On constant solutions of SU(2) Yang-Mills equations
Shukrinov Yuri	Resonance features of superconductor-ferromagnet-superconductor Josephson junctions
Skvortsov Evgeny	Models of Quantum Gravity
Smilga Andrei	Differential geometry through supersymmetric glasses
Smolyansky Stanislav Alexandrovich	Method BBGKY in strong field QED
Spiridonov Vyacheslav Pavlovich	Superconformal indices, Seiberg dualities and special functions
Stepanyantz Konstantin Viktorovich	NSVZ relation and NSVZ scheme in non-Abelian supersymmetric gauge theories
Stukopin Vladimir Alekseevich	On connection between super Yangians and quantum loop superalgebras
Tarasov Oleg Vasil'evich	Derivation and solution of functional equations for Feynman integrals
Teretenkov Alexander Evgen'evich	Exact non-Markovian evolution with several reservoirs
Teryaev Oleg Valerianovich	Gravitational couplings and forces inside hadrons
Tkachov Fyodor	Breaking the two-loop barrier for the generalized IBP reduction method

Treschev Dmitry Valerievich	Entropy of a unitary operator
Trushechkin Anton Sergeyevich	Bogolyubov microscopic solutions of the Boltzmann-Enskog kinetic equation
Vernov Sergey Yu.	Cosmological models with the Gauss-Bonnet term and non-minimally coupled scalar fields
Volchanskiy Nikolay	Two-loop kite master integral for a correlator of two composite vertices and its applications in QCD (exe file)
Volkov Mikhail Konstantinovich	The decays $\tau \rightarrow K^* \pi \nu$ and $\tau \rightarrow [\phi \omega] K \nu$ in the extended Nambu-Jona-Lasinio model
Volobuev Igor	Quantum field theory beyond the S-matrix formalism
Volovich Igor Vasilievich	Advances in the problem of irreversibility after Bogolyubov's works
Yukalov Vyacheslav	Hartree-Fock-Bogolubov method in the theory of Bose-condensed systems
Yung Alexei	Quantizing a solitonic string
Zagrebnov Valentin	Trotter-Kato product formulae for Gibbs semigroups
Zakharov Alexander	Constraints on gravity theories with galactic center and the center of M87 observations
Zakharov Valentin Ivanovich	Manifestation of Quantum anomalies in Quantum Statistical mechanics
Zarembo Konstantin	Exact results in holographic duality: CFT and beyond
Zelenov Evgeny Igorevich	Entropy gain in p-adic quantum channels
Zharinov Victor Victorovich	Lie-Poisson structures
Zheltukhin Aleksandr Aleksandrovich	Brane mechanism of spontaneously generated gravity