Monday 18 July 2022

Registration (09:00-09:45)

Opening (09:45-10:00)

Plenary Session: Kazakov D. (10:00-11:20)

time title	presenter
10:00 Gravitational-wave astronomy: astrophysical and cosmological inferences	POSTNOV, Konstantin
10:40 Dark Matter and Cosmology	GORBUNOV, Dmitry

Coffee break (11:20-11:50)

Collider Physics and 3D Hadron Structure: Kotikov A. - Auditorium, 2nd floor (11:50-12:50)

time title	presenter	
11:50 Regge cuts in QCD	FADIN, Victor	
12:20 On Asymptotic Universality of Strong Interactions at Large Distances	PETROV, Vladimir	

Dark Matter and Cosmology: Baushev A. - Blokhintsev Hall (11:50-12:50)

time title	presenter
11:50 Weyl Cosmology and Particle Production	BEREZIN, Victor
Anti-de Sitter neutron stars in the theory of gravity with nonminimal derivative coupling	KASHARGIN, Pavel SUSHKOV, Sergey

Quantum Field Theory and Gravity: Makeenko Yu. - Conference Hall (11:50-12:50)

time title	presenter
11:50 Generalizing generalized supergravity	MUSAEV, Edvard
12:20 Critical non-Abelian vortices and holography for little string theory	YUNG, Alexei

Lunch (12:50-14:00)

QCD at high temperature and density: Ivanov M. - Blokhintsev Hall (14:00-16:00)

time	title	presenter
	A better constraint on neutron-antineutron oscillations without a new experiment (online)	NESVIZHEVSKY, Valery
14:30	Electromagnetic conductivity of quark-gluon plasma under extreme conditions	BRAGUTA, Victor
15:00	Quantum and classical local P-violation	TERYAEV, Oleg
15:30	Gravitational chiral anomaly and anomalous transport	PROKHOROV, George ZAKHAROV, Valentin

Collider Physics and 3D Hadron Structure: Fadin V. - Auditorium, 2nd floor (14:00-16:00)

time title presenter

14:00 Triple top quark production	DUDKO, Lev
14:30 Dark Matter Search at the LHC	SAVINA, Maria
15:00 Unitary limitations of the SMEFT approach in describing new physics in top quark production.	BUNICHEV, Viacheslav
Pair production of J/psi in the color evaporation model using the Parton Reggeization Approach	SALEEV, Vladimir

Quantum Field Theory and Gravity: Alekseev S. - Conference Hall (14:00-16:00)

time title	presenter
14:00 Canonical Bigravity	SOLOVIEV, Vladimir
14:30 Geometric transitions in systems with spatial periodicity	MARACHEVSKY, Valery
15:00 What quantum strings can tell us about quantum gravity	MAKEENKO, Yuri
15:30 Geodesic Deviation and Tidal Accelerations in Gravitational Waves of the Bianchi Universes	OSETRIN, Konstantin

Photo (16:00-16:20)

Quantum Field Theory and Gravity: Golubtsova A. - Conference Hall (16:20-18:00)

time title	presenter
16:20 Scattering of EM and Gravity Waves by Null Cosmic Strings	FURSAEV, Dmitri PIROZHENKO, Irina
16:40 Canonical quantization of a massive scalar field in the Schwarzschild spacetime	SMOLYAKOV, Mikhail
17:00 Black bounces and remnants in dilaton gravity	FITKEVICH, Max
17:20 FeynGrav. FeynCalc extension for gravity amplitudes	LATOSH, Boris
17:40 Black hole astrophysics in extended gravity models.	ALEXEYEV, Stanislav PROKOPOV, Vjacheslav

Collider Physics and 3D Hadron Structure: Dudko L. - Auditorium, 2nd floor (16:20-18:00)

time title	presenter
16:20 Pair quarkonium production in Higgs boson decay	MARTYNENKO, Alexei
16:40 Odderon and three-pomeron one-dimensional reggeon models	KUZMINSKII, Evgenii
17:00 Hybrid model of proton structure functions	BARINOV, Vladislav
17:20 Limits on coupling constants of SMEFT operators from processes of 3 and 4 top-quark production	ALESHKO, Aleksey
17:40 Energy levels of three - particle muon - electron ions	MARTYNENKO, Fedor

QCD at high temperature and density: Braguta V. - Blokhintsev Hall (16:20-18:00)

time title	presenter
16:20 The double Compton process in a strongly magnetized plasma (online)	RUMYANTSEV, Dmitry
16:40 Phase diagram of rotating QCD from lattice simulations with dynamical quarks	ROENKO, Artem
17:00 Roberge-Weiss Transition in the Lee-Yang approach	ROMAN, Rogalyov

17:20	Dense QCD in magnetic field	RANNU, Kristina
17:40	Influence of the magnetic field and rotation on heavy mesons in medium.	LUSCHEVSKAYA, Elena

Welcome party (BLTP, Cafeteria) (18:00-19:30)

Tuesday 19 July 2022

Plenary Session: Boos E. (10:00-11:20)

time title	presenter
10:00 High-energy neutrino astrophysics	TROITSKY, Sergey
10:40 Progress in multiloop calculations	LEE, Roman

Coffee break (11:20-11:50)

Dark Matter and Cosmology: Baushev A. - Blokhintsev Hall (11:50-12:50)

time title	presenter
11:50 Before inflation	STAROBINSKY, Alexei
12:20 The crucial importance of black hole images for cosmology (online)	DOKUCHAEV, Vyacheslav

Quantum Field Theory and Gravity: Berezin V. - Conference Hall (11:50-12:50)

time title	presenter	
11:50 Horava gravity as Palladium of renormalizability and unitarity	BARVINSKY, Andrei	
12:20 Sigma models as Gross-Neveu models	BYKOV, Dmitri	

Collider Physics and 3D Hadron Structure: Arbuzov A. - Auditorium, 2nd floor (11:50-12:50)

time title	presenter	
11:50 BSM physics at future colliders	KISSELEV, Alexander	
12:20 Searches for New Physics with the CMS Experiment at the LHC	SHMATOV, Sergei	

Lunch (12:50-14:00)

Quantum Field Theory and Gravity: Isaev A. - Conference Hall (14:00-16:00)

time title	presenter
14:00 Presymplectic structures and BV formalism beyond jet-bundles	GRIGORIEV, Maxim
14:30 From 4d superconformal indices to 6j-symbols for Lorentz group	SPIRIDONOV, Vyacheslav
15:00 Two-loop diagrams in non-relativistic QCD with elliptics	KOTIKOV, Anatoly
15:30 Evaluating four-photon amplitudes by functional reduction method	TARASOV, Oleg

Dark Matter and Cosmology: Postnov K. - Blokhintsev Hall (14:00-16:00)

time title	presenter
14:00 Quantum explosions of black holes (online)	VOLOVICH, Igor
14:30 The Galactic Center and M87*: observations and their interpretations	ZAKHAROV, Alexander
15:00 One parametric extensions of the Starobinsky inflationary model	VERNOV, Sergey
15:20 Multidimensional cosmology in Gauss-Bonnet gravity	TOPORENSKY, Alexey
15:40 Spherically symmetric black holes and physical vacuum	IVANOVA, Inna

Collider Physics and 3D Hadron Structure: Kerbikov B. - Auditorium, 2nd floor (14:00-16:00)

time title	presenter
14:00 Heavy tetraquarks in the relativistic quark model	FAUSTOV, Rudolf
14:30 Strongly intense observable as a tool to study the string clusters formation in pp interactions at LHC energies	VECHERNIN, Vladimir
Hadron interaction at large distances and new peculiarities of the differential cross sections at LHC energies.	SELYUGIN, Oleg
15:30 Four-Quark Nature of Light Scalar Mesons (online)	ACHASOV, Nikolay

Coffee break (16:00-16:30)

Quantum Field Theory and Gravity: Tarasov O. - Conference Hall (16:30-18:30)

time title	presenter
Three loop spectral density and moments of photon polarization function in QED	ONISHCHENKO, Andrei
16:50 Differential equation derivation for Feynman integrals	BYTEV, Vladimir
17:10 Exact Frobenius solutions for elliptic Feynman integrals	BEZUGLOV, Maxim
17:30 Multiloop calculations in N=1 SQED with \$N_f\$ flavours regularized by higher derivatives	er SHIROKOV, Ilya
17:50 UV Divergences of Scattering Amplitudes in D-dimensional Yang-Mills Theories	BORLAKOV, Arthur
18:10 Fermionic contribution to anomalous dimension of twist-2 operators in N=4 SYM theory	VELIZHANIN, Vitaly

Collider Physics and 3D Hadron Structure: Saleev V. - Auditorium, 2nd floor (16:30-19:00)

time title	presenter
16:30 A new type of (quasi)parton distributions.	ANIKIN, Igor
17:00 Confinement potential of the Cornell type from holographic approach to QCD	AFONIN, Sergey
17:20 Dominant radiative transitions of the low-lying charmonium excited states	GANBOLD, Gurjav
17:40 Nonlocal gluon condensate	PIMIKOV, Alexandr
18:00 Charged particles pair production in pp scattering: survival factor and proton tagging	GODUNOV, Sergey
18:20 "Solution of the kinetic equation taking into account resonant the Compton process in a magnetized medium"	YARKOV, Alexey

Dark Matter and Cosmology: Zakharov A. - Blokhintsev Hall (16:30-18:30)

time title	presenter
16:30 Particle shadows of black holes and new characteristic surfaces	GALTSOV, Dmitry BOGUSH, Igor
16:50 Bianchi I cosmological solutions in teleparallel gravity.	TRETYAKOV, Petr
17:10 Spiral Structure of Galaxies in Generalized Gravitational Theories	PRONIN, Petr
17:30 Einstein-Gauss-Bonnet inflation	POZDEEVA, Ekaterina

	Gravitational waves from first-order electroweak phase transition in a model with light sgoldstinos	KRIUKOVA, Ekaterina
18:10	Romancing the Hubble: State of the "H0 Problem"	NEDELKO, Nikita

Wednesday 20 July 2022

Plenary Session: Rubakov V. (10:00-11:20)

time title	presenter	
10:00 Recent results from LHC experiments	MYAGKOV, Alexey	
10:40 Neutrino oscillation results and search for neutrino sterile states	OLSHEVSKIY, Alexander	

Coffee break (11:20-11:50)

Neutrino Physics and Non-Accelerator Physics: Olshevskiy A. - Auditorium, 2nd floor (11:50-12:50)

t	me title		presenter	
1		alysis of the result of the Neutrino-4 experiment in conjunction with other periments on the search for sterile neutrinos	SEREBROV, Anatolii SAMOILOV, Rudolf	
1	2:20 lm	proved cosmological bounds for keV sterile neutrinos	DUBININ, Mikhail	

Quantum Field Theory and Gravity: Grigoriev M. - Conference Hall (11:50-12:50)

time title	presenter	
11:50 Conformal triangles and zig-zag diagrams	ISAEV, Alexey	
12:20 Basso-Dixon diagrams	DERKACHOV, Sergey	

<u>Dark Matter and Cosmology: Pukhov A.</u> - Blokhintsev Hall (11:50-12:50)

time	title	presenter
	The Hubble stream near a galaxy group: the exact analytical solution for the spherically-symmetric case and the group mass determination	BAUSHEV, Anton
12:20	Can the multicomponent dark matter be visible due to inner luminescence? (online)	BEYLIN, Vitaly

Lunch (12:50-14:00)

Quantum Field Theory and Gravity: Onishchenko A. - Conference Hall (14:00-16:00)

time title		presenter	
14:00 Large	charge expansion in quantum field theory	ANTIPIN, Oleg	
	ed properties of five-point massive amplitudes in N=4 SYM on the omb branch (online)	BORK, Leonid	
15:00 All-loc	op quantum contribution to effective potentials	TOLKACHEV, Denis KAZAKOV, Dmitry	
15:30 Analy	rtic infinite derivative QFTs and gravity theories (online)	KOSHELEV, Alexey	

Neutrino Physics and Non-Accelerator Physics: Dubinin M. - Auditorium, 2nd floor (14:00-16:00)

time	title	presenter
14:00	Neutrino spin and flavor oscillations in gravitational fields	DVORNIKOV, Maxim

14:30	Quantum field-theoretical description of neutrino oscillations in terms of distance-dependent propagators	VOLOBUEV, Igor
15:00	Нарушение Т-инвариантности в осцилляциях нейтрино в плотной среде и электромагнитном поле	LOBANOV, Andrey
15:30	Supernova dynamo effect in neutrino spectra and perspective of observations by large volume telescopes	KONDRATYEV, Vladimir

Dark Matter and Cosmology: Smolyakov M. - Blokhintsev Hall (14:00-16:00)

time title	presenter
14:00 Probing Light Dark Matter with NA64	KIRPICHNIKOV, Dmitry KRASNIKOV, Nikolai
14:30 Solar mass black holes from neutron stars and bosonic dark matter	LEVKOV, Dmitry
15:00 Аналитический анализ возникновения core или cusp распределений материи в галактиках	KAPUSTIN, A.D. PASTON, Sergey
15:30 Manifestation of dark matter axions in spin effects in storage rings	SILENKO, Alexander

Poster Session & Coffee (16:00-16:40)

time title	presenter
16:00 Notes on peculiarities of quantum fields in space-times with horizons	BAZAROV, Kirill
16:05 Thermalization with non-zero anomalous quantum averages	KAZARNOVSKII, Kirill
16:10 Testing universal dark-matter caustic rings with galactic rotation curves	DAVYDOV, Daniil
16:15 Relativistic GL(NM,C) Gaudin models on the elliptic curve	TRUNINA, Elizaveta
16:20 Free energy and entropy in Rindler and de Sitter space-times	DIAKONOV, Dmitrii
16:25 Towards new tests of cosmic-ray correlations with BL Lac type objects	KUDENKO, Maria
16:30 Energy levels of three-particle systems in quantum electrodynamics	ESKIN, Alexey

Neutrino Physics and Non-Accelerator Physics: Volobuev I. - Auditorium, 2nd floor (16:40-18:00)

t	ime	title	presenter
1	L6:40	Neutrino mass via chiral symmetry breaking	KOVALENKO, Sergey
1	L7:00	Description of neutrino propagation processes in a highly inhomogeneous medium within the framework of the model of quantum spinor field system with singular potentials.	PISMAK, Yury M.
1	L7:20	Revisiting PS191 limits on sterile neutrinos	KRASNOV, Igor
1	L7:40	Large neutrino mixing from the evolution of the renormalization group in the superweak theory	DAS, Chitta Ranjan

Dark Matter and Cosmology: Levkov D. - Blokhintsev Hall (16:40-18:00)

time title	presenter
16:40 micrOmegas, a package for calculation of Dark Matter observables	PUKHOV, Alexander
17:00 Bounds to dark axion portal	ZHEVLAKOV, Alexey
17:20 Millicharged particles at Super Charm-Tau Factory	KALASHNIKOV, Dmitry
17:40 Prospects for Dark Matter Search at the Super c-tau Factory	TRYKOV, Sergei

Quantum Field Theory and Gravity: Antipin O. - Conference Hall (16:40-18:00)

time title	presenter
16:40 Two-loop contribution to the pure Yang-Mills effective action	IVANOV, Aleksandr
17:00 Numerical results for multiparticle production in φ^4 theory	FARKHTDINOV, Bulat
17:20 Exact amplitudes in various conformal fishnet theories	IAKHIBBAEV, Ravil
17:40 Large charge expansion meets epsilon expansion at six loops	PIKELNER, Andrey

Banquet (19:00-22:00)

Thursday 21 July 2022

Plenary Session: Teryaev O. (10:00-10:40)

time	title	presenter
10:00	Progress in understanding of physics at high temperature and density (online)	LEONIDOV, Andrei

Poster Session & Coffee (10:40-11:20)

time title	presenter
10:40 The circumgalactic medium contribution to IceCube's ast flux	rophysical neutrino MARTYNENKO, Nickolay
10:45 Energy-dependent flavor ratios, cascade/track spectrum high-energy neutrinos from magnetospheres of superma	
10:50 Energy Loss in Strong Magnetic Field	SLEPOV, Pavel
10:55 Modelling gravitational wave emission in the post-inflation	nary Universe SUZDALOV, Gleb
11:00 Novel integrable structure and deformations in \$AdS_n\$	string backgrounds PRIBYTOK, Anton
11:05 Q-balls of dark matter and LIGO/VIRGO gravitational wa	ve signals LIBANOV, Alexander
11:10 Probing axion-like particles with superconducting cavities	SALNIKOV, Dmitry
11:15 The Diffuse Supernova Neutrino Background in the Stan- Collapse Models	dard and Double SHAROFEEV, Andrey

QCD at high temperature and density: Afonin S. - Blokhintsev Hall (11:20-12:50)

time title	presenter
11:20 Parton density functions in QED	ARBUZOV, Andrej
11:50 Radiation of an electron in a Lorentz-violating vacuum	BORISOV, Anatoly
12:20 Entanglement entropy in heavy ion collisions (online)	AREF'EVA, Irina

Quantum Field Theory and Gravity: Paston S. - Conference Hall (11:20-12:50)

time	title	presenter
	Unconstrained \${\cal N}=2\$ higher-spin gauge superfields and their hypermultiplet couplings	IVANOV, Evgeny ZAIGRAEV, Nikita
11:50	Stability and bifurcations of holographic RG flows of 3d SUGRA	GOLUBTSOVA, Anastasia
12:20	Path integrals in quantum gravity models	BELOKUROV, Vladimir

Collider Physics and 3D Hadron Structure: Anikin I. - Auditorium, 2nd floor (11:20-12:50)

time title	presenter
11:20 Recent Results from the CMD-3 detector at VEPP-2000 collider	LUKIN, Peter
11:50 Experimental opportunities for new physics at Nuclotron-NICA	TARANENKO, Arkadiy
12:20 Tetraquark Interpretation of \$Y_b (10750)\$ and Its Production at the LHC	PARKHOMENKO, Alexander

Lunch (12:50-14:00)

QCD at high temperature and density: Godunov S. - Blokhintsev Hall (14:00-16:00)

time title	presenter
14:00 Sound Anomalies in Quark Matter with Application to Neutron Stars	KERBIKOV, Boris
14:30 QED at strong and supercritical fields with heavy ions	SHABAEV, Vladimir
15:00 Resonant generation of high-order harmonics in nonlinear electrodynamics	SATUNIN, Petr
The equation for the probability of quantum transitions with multipoint correlations and stochastic processes in the space of joint events.	BIRYUKOV, Alexandr

Collider Physics and 3D Hadron Structure: Parkhomenko A. - Auditorium, 2nd floor (14:00-16:00)

time title	presenter
Role of initial state gluon emissions in double J/psi production at central rapidities	PROKHOROV, Andrei
14:30 Testing of the Realism Hypothesis in the neutral B-mesons pairs.	NIKITIN, Nikolay
15:00 Anomalies in B-physics	IVANOV, Mikhail
15:30 Nuclear effects in DIS and their impact on global QCD analyses (online)	KULAGIN, Sergey

Quantum Field Theory and Gravity: Musaev E. - Conference Hall (14:00-16:00)

time	title	presenter
	Invariant traces of the flat space chiral higher-spin algebra as scattering amplitudes	PONOMAREV, Dmitry
14:30	Solutions of pentagon identity and multidimensional orthogonal polynomials	SLEPTSOV, Alexey
	Chern-Simons action, 't Hooft-Polyakov monopole, and point disclinations in the Geometric theory of defects	KATANAEV, Mikhail
15:30	Invariant Differential Operators: Recent Developments (online)	DOBREV, Vladimir

Coffee break (16:00-16:30)

Quantum Field Theory and Gravity: Kataev A. - Conference Hall (16:30-18:10)

time	title	presenter
16:30	The \$\{\beta\}\$-expansion for Adler function, Bjorken Sum Rule, and the Crewther-Broadhurst-Kataev relation at order \$O(\alpha_s^4)\$	MIKHAILOV, Sergei
16:50	Renormalon-chain contributions to two-point correlators of nonlocal quark currents	VOLCHANSKIY, Nikolay
17:10	On the impact of the EW corrections to the relation between pole and running masses of top-quark: three different approaches to fixing VEV	MOLOKOEDOV, Victor
17:30	The decays tau -> (a1 pi, K1 pi, K1 K)nu and e+e> (a1 pi, K1K) in the NJL model	PIVOVAROV, Aleksey VOLKOV, Mikhail
17:50	Classical and quantum chaos in nonlinear vector mechanics	TRUNIN, Dmitrii

Collider Physics and 3D Hadron Structure: Nikitin N. - Auditorium, 2nd floor (16:30-18:10)

time title	presenter
16:30 Double longitudinal-spin asymmetries in direct photon production at NICA	SHIPILOVA, Alexandra

	On transverse single-spin asymmetries in D-meson production at the SPD NICA experiment	KARPISHKOV, Anton
17:10	Polarization of lambda hyperons in Au-Au collisions at NICA energies	ZINCHENKO, Aleksei
	Rare decays of neutral B – mesons into four charged leptons in the Standard Model (online)	DANILINA, Anna
17:50	"	

<u>Dark Matter and Cosmology: Davydov E.</u> - Blokhintsev Hall (16:30-18:10)

time title	presenter
16:30 Self-tuning inflation	PETRIAKOVA, Polina
16:50 Null cosmic strings and space-time content	TAINOV, Vladislav
17:10 Polarization of gravitational waves in hybrid metric-Palatini f(R)-gravity	DYADINA, Polina
17:30 Generating cosmological perturbations at Horndeski bounce	RUBAKOV, Valery AGEEVA, Yulia
17:50 Inflation in scalar-tensor theory with nonminimal kinetic coupling	AVDEEV, Nikita

Closing (18:10-18:30)