



# International Conference on Quantum Field Theory, High-Energy Physics, and Cosmology

## Monday, 18 July 2022

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

time	[id] title	presenter
11:50	[81] Generalizing generalized supergravity	MUSAEV, Edvard
12:20	[134] Critical non-Abelian vortices and holography for little string theory	YUNG, Alexei

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

time	[id] title	presenter
14:00	[116] Canonical Bigravity	SOLOVIEV, Vladimir
14:30	[78] Geometric transitions in systems with spatial periodicity	MARACHEVSKY, Valery
15:00	[77] What quantum strings can tell us about quantum gravity	MAKEENKO, Yuri
15:30	[85] Geodesic Deviation and Tidal Accelerations in Gravitational Waves of the Bianchi Universes	OSETRIN, Konstantin

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

time	[id] title	presenter
16:20	[47] Scattering of EM and Gravity Waves by Null Cosmic Strings	FURSAEV, Dmitri PIROZHENKO, Irina
16:40	[115] Canonical quantization of a massive scalar field in the Schwarzschild spacetime	SMOLYAKOV, Mikhail
17:00	[46] Black bounces and remnants in dilaton gravity	FITKEVICH, Max
17:20	[72] FeynGrav. FeynCalc extension for gravity amplitudes	LATOSH, Boris
17:40	[97] Black hole astrophysics in extended gravity models.	ALEXEYEV, Stanislav PROKOPOV, Vjacheslav

## Tuesday, 19 July 2022

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

time	[id] title	presenter
11:50	[20] Horava gravity as Palladium of renormalizability and unitarity	BARVINSKY, Andrei
12:20	[32] Sigma models as Gross-Neveu models	BYKOV, Dmitri

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

time	[id] title	presenter
14:00	[50] Presymplectic structures and BV formalism beyond jet-bundles	GRIGORIEV, Maxim
14:30	[117] From 4d superconformal indices to 6j-symbols for Lorentz group	SPIRIDONOV, Vyacheslav
15:00	[67] Two-loop diagrams in non-relativistic QCD with elliptics	KOTIKOV, Anatoly
15:30	[121] Evaluating four-photon amplitudes by functional reduction method	TARASOV, Oleg

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

time	[id] title	presenter
16:30	[84] Three loop spectral density and moments of photon polarization function in QED	ONISHCHENKO, Andrei
16:50	[34] Differential equation derivation for Feynman integrals	BYTEV, Vladimir
17:10	[25] Exact Frobenius solutions for elliptic Feynman integrals	BEZUGLOV, Maxim
17:30	[111] Multiloop calculations in N=1 SQED with $N_f$ flavours regularized by higher derivatives	SHIROKOV, Ilya
17:50	[30] UV Divergences of Scattering Amplitudes in D-dimensional Yang-Mills Theories	BORLAKOV, Arthur
18:10	[128] Fermionic contribution to anomalous dimension of twist-2 operators in N=4 SYM theory	VELIZHANIN, Vitaly

**Wednesday, 20 July 2022****Quantum Field Theory and Gravity: Grigoriev M. - Conference Hall (11:50 - 12:50)**

time	[id] title	presenter
11:50	[52] Conformal triangles and zig-zag diagrams	ISAEV, Alexey
12:20	[36] Basso-Dixon diagrams	DERKACHOV, Sergey

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

time	[id] title	presenter
14:00	[15] Large charge expansion in quantum field theory	ANTIPIN, Oleg
14:30	[29] Infrared properties of five-point massive amplitudes in N=4 SYM on the Coulomb branch (online)	BORK, Leonid
15:00	[123] All-loop quantum contribution to effective potentials	TOLKACHEV, Denis KAZAKOV, Dmitry
15:30	[66] Analytic infinite derivative QFTs and gravity theories (online)	KOSHELEV, Alexey

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

time	[id] title	presenter
16:40	[54] Two-loop contribution to the pure Yang-Mills effective action	IVANOV, Aleksandr
17:00	[44] Numerical results for multiparticle production in $\phi^4$ theory	FARKHTDINOV, Bulat
17:20	[51] Exact amplitudes in various conformal fishnet theories	IAKHIBBAEV, Ravil
17:40	[168] Large charge expansion meets epsilon expansion at six loops	PIKELNER, Andrey

**Thursday, 21 July 2022****Quantum Field Theory and Gravity: Paston S. - Conference Hall (11:20 - 12:50)**

time	[id] title	presenter
11:20	[55] Unconstrained $\mathcal{N}=2$ higher-spin gauge superfields and their hypermultiplet couplings	IVANOV, Evgeny ZAIGRAEV, Nikita
11:50	[49] Stability and bifurcations of holographic RG flows of 3d SUGRA	GOLUBTSOVA, Anastasia
12:20	[22] Path integrals in quantum gravity models	BELOKUROV, Vladimir

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

time	[id] title	presenter
14:00	[93] Invariant traces of the flat space chiral higher-spin algebra as scattering amplitudes	PONOMAREV, Dmitry
14:30	[114] Solutions of pentagon identity and multidimensional orthogonal polynomials	SLEPTSOV, Alexey
15:00	[61] Chern-Simons action, 't Hooft-Polyakov monopole, and point disclinations in the Geometric theory of defects	KATANAEV, Mikhail
15:30	[37] Invariant Differential Operators: Recent Developments (online)	DOBREV, Vladimir

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

time	[id] title	presenter
16:30	[60] The $\beta$ -expansion for Adler function, Bjorken Sum Rule, and the Crewther-Broadhurst-Kataev relation at order $\mathcal{O}(\alpha_s^4)$	MIKHAILOV, Sergei
16:50	[130] Renormalon-chain contributions to two-point correlators of nonlocal quark currents	VOLCHANSKIY, Nikolay
17:10	[80] 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	[92] The decays $\tau \rightarrow (a_1 \pi, K_1 \pi, K_1 K) \nu$ and $e^+e^- \rightarrow (a_1 \pi, K_1 K)$ in the NJL model	PIVOVAROV, Aleksey VOLKOV, Mikhail
17:50	[140] Classical and quantum chaos in nonlinear vector mechanics	TRUNIN, Dmitrii