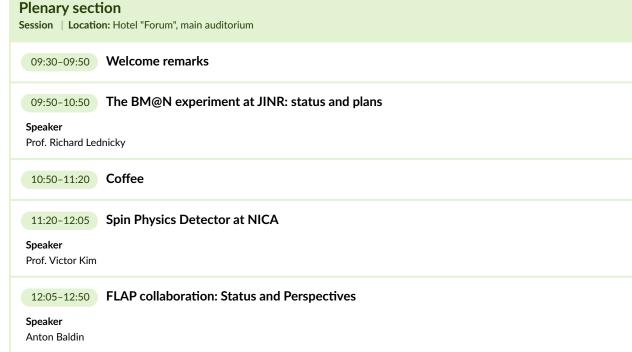


Monday 25 August

09:30



13:00

14:00

Plenary section Session | Location: Hotel "Forum", main auditorium 14:00-14:45 Electromagnetic radiation in plasma: Density of states effects and asymptotic tunneling Speaker Prof. Sergey Gaponenko 14:45-15:30 Physics at MPD experiment Speaker Олег Рогачевский 15:30-16:00 The status and prospects for the production of detector materials in Russia and Belarus: an industrial production of the demanded materials and cutting-edge design at the atomic level **Speakers** Prof. Mikhail Korzhik, Prof. Ilia Komendo 16:00-16:30 **Coffee** 16:30-17:15 Conditionally built states for quantum effects Speaker Prof. Dmitri Mogilevtsev 17:15-17:45 Parametric X-ray radiation – from theory to technology Speaker Prof. Ilia Feranchuk

17:45-18:30

Spin effects of quantum electrodynamics in superstrong fields of crystals and the possibility of their observation at future electron-positron colliders

Speaker

Prof. Victor Tikhomirov

Tuesday 26 August

09:00 Plenary section Session | Location: Hotel "Forum", main auditorium 09:00-09:45 Future experiments in high energy physics Grigory Trubnikov 09:45-10:30 Superheavy elements-present and future Speaker Mikhail Itkis 10:30–10:40 Common photo shoot 10:40-11:00 **Coffee** 11:00-11:45 Methods and technologies of data processing in heterogeneous computing environments Speaker Vladimir Korenkov 11:45–12:30 Methods and algorithms of experimental data processing at JINR Speaker Dr Nikolay Voytishin 12:30-13:15 Latest achievements in the field of thermonuclear energy at the Institute of Plasma Physics, Chinese Academy of Sciences Speaker Viktoriia Saklakova 13:15 14:00 Plenary section Session | Location: Hotel "Forum", main auditorium 14:00-14:45 Research in the field of radiation biology at accelerator complexes and their application in space research and nuclear medicine Speaker Александр Бугай 14:45-15:30 Radiobiology of Auger electron emitters Speaker Dr Павел Лобачевский 15:30

Wednesday 27 August

09:00 Plenary section Session | Location: Hotel "Forum", main auditorium 09:00-09:45 Physics reach at CEPC, and impact of AI tools Manqi RUAN 09:45-10:30 Experiments at the Circular electron-positron collider. The Higgs boson study Speaker Prof. Юрий Кульчицкий 10:30 10:50 Plenary section Session | Location: Hotel "Forum", main auditorium 10:50-11:30 Highlights of Unstable States in Relativistic Dissociation of Light Nuclei Speaker Pavel Zarubin 11:30-11:50 SHINE station at accelerator complex NICA: Status and Perspectives. Applied points Speaker Сергей Четвериков 11:50-12:20 Monte-Carlo simulations and Nuclear Spectroscopy for Muon Capture Experiments Speaker Абдуллах Шихада 12:20-12:40 Analysis of hypernuclei and strange particles in the BM@N experiment Speaker Ramin Barak 12:40-13:00 Possibilities to observe nuclear optical phenomena for protons and nuclei at Nuclotron-M and NICA Sergei Anishchenko 13:00 14:00 Plenary section Session | Location: Hotel "Forum", main auditorium 14:00-14:30 Software development for MPD experiment Speaker Олег Рогачевский 14:30-15:00 MPD TPC assembling, NICA project Speaker Sergey Movchan 15:00-15:30 Thermal stabilization system of TPC: challenges, progress and status

Speaker

Alexander Fedotov

15:30-15:45

High-performance computations of the temperature field and electron drift in the TPC of MPD/NICA

Speaker

Maryia Miadzvedzeva

15:45–16:00 Ionization of the drift gas volume of the TPC detector by UV nanosecond laser pulses

Speaker

Julia Shafarevich

16:00-16:15

Hydrodynamic calculation of the cooling system of MicroMEGAS electronics for SPD detector

Ilya Zur

Thursday 28 August

09:00 Plenary section Session | Location: Hotel "Forum", main auditorium 09:00-09:45 Recent results from the ATLAS experiment Prof. Юрий Кульчицкий 09:45-10:30 Probing anomalous quartic gauge couplings and ALP-top interaction at future colliders Speaker Alexander Kisselev 10:30 11:00 Plenary section Session | Location: Hotel "Forum", main auditorium 11:00-11:40 High Energy Nuclear Optics of Polarized Protons and Nuclei: Research at Complex Nuclotron M-NICA Vladimir Baryshevsky 11:40-13:00 Diquarks are the reality or why do we need them Speaker Stepan Shimanskiy 13:00 14:00 Plenary section Session | Location: Hotel "Forum", main auditorium 14:00-14:40 Polarization effects in the process of elastic electron-proton scattering Speaker Mikhail Galynskii 14:40-15:00 Exact calculation of photon polarization observables in Bethe-Heitler process Speaker Dr Юрий Быстрицкий 15:00-15:35 QED radiative corrections to lepton-proton scattering Speaker Alexander Ilyichev 15:35-15:55 Inverse emission in dilepton production at CMS LHC Speaker Prof. Vladimir Zykunov 15:55-16:15 Polarized photon-photon collisions in ReneSANCe Speaker Renat Sadykov 16:15

16:30

Plenary section Session | Location: Hotel "Forum", main auditorium 16:30-17:00 Gluon dominance model and multiparticle production Speaker Prof. Елена Кокоулина 17:00-17:40 Axion physics: New theoretical results Speaker Alexander Silenko 17:40-18:10 Feynman integral claculation with differential equations Speaker Владимир Бытьев 18:10-18:40 Dual superfield approach to supersymmetric mechanics with spin variables Speaker Dr Stepan Sidorov 18:40-19:00 Influence of irradiation by heavy ions on characteristics of Monolayer Graphene Speaker Nelli Pukhaeva

Friday 29 August

09:00 Plenary section Session | Location: Hotel "Forum", main auditorium 09:00-09:40 Some aspects of relativistic kinematics from the point of view of Lobachevsky geometry Yurii Kurochkin 09:40-10:40 Study of jet properties with CMS data Speaker Сергей Шульга 10:40-11:00 Bounds on the mass and mixing of Z' and W' bosons decaying into different pairings of W, Z or Higgs bosons using CMS and ATLAS data at the LHC Speaker Inna Serenkova 11:00 11:15 Plenary section Session | Location: Hotel "Forum", main auditorium 11:15-11:45 A method for analytical calculations of corrections to the anomalous magnetic moments of leptons based on the application of the Mellin-Barnes representation Speaker Olga Solovtsova 11:45-12:15 Form Factor and Mean-Square Radius for the Vector Current of Composite System of Two Fermions in the Relativistic Quasipotential Approach Speaker Yuriy Chernichenko 12:15-12:35 Description of eta and eta prime mesons Speaker Sergey Avakyan 12:35–12:55 Interactions of Heavy Mesons Speaker Elena Avakyan 12:55-13:15 Parameters of Poincare-covariant quark model for heavy sector mesons Speaker Dr Vadzim Haurysh 13:15 14:00 Plenary section Session | Location: Hotel "Forum", main auditorium 14:00-14:30 Parametric x-rays: Quo vadis? To 40th anniversary of the first experimental observation

Speaker

Alexander Lobko

14:30-15:00

Coherent Cherenkov radiation produced by electron bunches from a microtron in periodic structures

Speaker

Pavel Molchanov

15:00–15:20 Microservices for event data handling in modern HEP experiments

Speaker

Mr Виктор Крылов

15:20-15:40 32-channel readout electronics boards for the straw tracker of the COMET experiment

Speaker

Maxim Kovalenko

15:40-16:05 The actual problems of nuclear knowledge management at the level of microworld physics

Speaker

Svetlana Sytova

16:10 16:45

Plenary section

Session | Location: Hotel "Forum", main auditorium

16:45-17:05

Two-dimensional two-particle quasipotential equations in the relativistic configurational representation and some of their exact solutions

Speaker

Valery Kapshai

17:05-17:20

Approximate analytical solutions of two-particle equations in the case of superposition of the one-boson exchange potentials

Speaker

Yury Grishechkin

17:20-17:35 Delay time of particle tunneling through a smooth parabolic barrier of finite height

Speaker

Alexander Baran

17:35-17:55

Quantum-Mechanical Particle in the Analogue of the Cornell Potential in the Friedman-Lobachevsky Universe

Speaker

Nadezda Shaikovskaya

17:55-18:15 Fundamental decoherence of a photon in vacuum

Speaker

Sergey Cherkas

18:15-18:30

The tensor analyzing power component T20 in the reaction of coherent pion photoproduction on the deuteron in the Delta resonance region

Speaker

Maxim Nevmerzhitsky