



# XXV International Baldin Seminar on High Energy Physics Problems "Relativistic Nuclear Physics and Quantum Chromodynamics"

## Friday, 22 September 2023

### Parallel: Polarization phenomena, spin physics: Session I - Conference Hall (11:00 - 13:00)

time	[id] title	presenter
11:00	[135] Novel quantum phase transition in heavy ion collisions	PROKHOROV, Georgy
11:20	[74] Global polarization of lambda hyperons and its correlation with directed flow in the MPD experiment.	TROSHIN, Valery
11:40	[58] Nature of Nuclear Physics	PESTOV, Ivanhoe SEMINAR, Baldin ISHEPP
12:00	[117] Optically Pumped Polarized $3\text{He}^{++}$ Ion Source Development for RHIC/EIC	Dr ZELENSKI, Anatoli
12:20	[149] Generalization of the concept of unitarity in the quantum basis of color and three quark-lepton generations	Prof. VOLKOV, Gennadii
12:40	[162] Relativistic field-theoretical approach of the vector meson resonance production in reaction $A+B \rightarrow V+X \rightarrow 1+2+X$ and determination of the location of the spin quantization axis of the vector meson-resonance $V$ via the cross sections of the subreactions $A+B \rightarrow V+X$ and $V \rightarrow 1+2$	MACHAVARIANI, Alexander

### Parallel: Polarization phenomena, spin physics: Session I - Conference Hall (14:30 - 16:10)

time	[id] title	presenter
14:30	[150] New drift chambers for ALPOM-2 experiment.	DRUZHININ, Anton
14:50	[19] Spin flipping of a deuteron beam by correcting quadrupoles in Nuclotron/JINR	TSYPLAKOV, Evgeny
15:10	[40] Structure and synthesis of magnetized heavy nuclei	KONDRATYEV, Vladimir
15:30	[179] Beam polarimetry in the NICA collider using a proton cluster target	PISKUNOV, Nikolay
15:50	[180] Measurement of analyzing power in $n+\text{CH}$ scattering at 3.75 GeV/c	KIRILLOV, Dmitry

### Parallel: Polarization phenomena, spin physics: Session I - Conference Hall (16:30 - 18:10)

time	[id] title	presenter
16:30	[81] Non-linear processes in electron-laser and photon-laser interactions	TITOV, Alexander
16:50	[104] Dependence of structure of of elastic scattering amplitude on Mandelstam variables at high energies	SELYUGIN, Oleg
17:10	[166] Invariants for angular distributions in lepton pair production	VOLKOVA, Daria
17:30	[13] Preservation of the proton polarization up to 3.5 GeV/c in the Nuclotron at JINR using correcting dipoles and a weak solenoid	Dr FILATOV, Yury
17:50	[181] Search for Polarized Phenomena at Nuclotron	SHINDIN, Roman