

## Session Program

12–16 May 2025



**IX SPD collaboration meeting**

*Physics*

# Thursday 15 May

09:30

## Physics

Session | Location: Yerevan, Alikhanyan National Science Laboratory

09:30–09:50

**$J/\psi$  production in the soft gluon resummation approach using the improved color-evaporation model**

Speaker

Kirill Shilyaev

09:50–10:10

**Pair production of D-mesons at small and large transverse momenta**

Speaker

Prof. Vladimir Saleev

10:10–10:30

**Comparison of the mechanisms of proton and pion production in dd collisions in the new cumulative region of central rapidities and high transverse momenta**

Speaker

Vladimir Vechernin

10:30–10:50

**Spin observables in  $dd \rightarrow n+p+d$  AND in pd-pd processes at NICA SPD energies**

Speaker

Yury Uzikov

10:50

11:10

## Physics

Session | Location: Yerevan, Alikhanyan National Science Laboratory

11:10–11:30

**Large- $p_T$  production of baryons and tetraquarks at SPD NICA energies**

Speaker

Andrei Zelenov

11:30–11:50

**Simulation of elastic and inelastic  $dd$ -interactions**

Speaker

Владимир Ужинский

11:50–12:15

**Track finding status at SPD [R]**

Speaker

Vladimir Andreev

12:15–12:30

**Report from MEPhI Group**

Speaker

Евгений Солдатов

12:30

14:00

## Physics: Parallel 1

Session | Location: Yerevan, Alikhanyan National Science Laboratory

14:00–14:15

**Garfield++/LTSpice studies of the straw time and charge resolution for different readout parameters**

Speaker

Sofia Bulanova

14:15–14:30 **Update on realistic simulation and hit reconstruction for the Straw Tracker [R]**

**Speaker**  
Ekaterina Mosolova

14:30–14:45 **Status of vertex detector simulation**

**Speaker**  
Artem Vasyukov

14:45–15:00 **Momentum resolution of straw detector in sextant geometry**

**Speaker**  
Ruslan Akhunzyanov

15:00–15:15 **Progress report of SPD Zero Degree Calorimeter in the first phase**

**Speaker**  
Катерин Штехер

15:20

14:00

## Physics: Parallel 2

**Session** | **Location:** Yerevan, Alikhanyan National Science Laboratory

14:00–14:20 **Monte Carlo simulations of the prototype SPD aerogel detectors**

**Speaker**  
Vardan Tadevosyan

14:20–14:35 **FARICH simulation and PID**

**Speaker**  
Artem Ivanov

14:35–14:55 **Machine Learning for FARICH Reconstruction. Production sample**

**Speaker**  
Foma Shipilov

14:55–15:10 **Improvement of the energy resolution of ECal SPD**

**Speaker**  
Dr Илья Зимин

15:10–15:20 **Simulation of heavy ion collisions in BBC detector (phase 0)**

**Speaker**  
Ivan Volkov

15:20

15:40

## Physics

**Session** | **Location:** Yerevan, Alikhanyan National Science Laboratory

15:40–15:55 **Phi meson production in pp@10 GeV with SPD spectrometer**

**Speaker**  
Elena Zemlyanichkina

15:55–16:10 **Exclusive phi meson production at the NICA SPD [R]**

**Speaker**  
Leonid Seryogin

16:10–16:25 **Study of pd scattering in dd collisions**

**Speaker**  
Amaresh Datta

16:25–16:45

**pp and dd scattering simulation for Beam–Beam Counter of the SPD [R]****Speaker**

Arkadiy Terekhin

16:45–17:00

**Cluster particle production @SPD experiment. Pythia vs Herwig****Speaker**

Dzmitry Budkouski

17:05