



Contribution ID : 242

Type : **Oral talk**

Performance of the trigger system of the MPD experiment

Friday, 25 October 2024 12:45 (15)

The Multi-Purpose Detector (MPD) is a heavy-ion experiment of the NICA complex under construction at JINR, Russia. With heavy-ion collisions in collider and fixed-target modes, MPD will be able to cover the energy range $\sqrt{s_{NN}} = 2.4 - 11$ GeV and thus study the baryon-rich region of the QCD phase diagram. Commissioning of the MPD detector with Xe/Bi beams is expected in late 2025. The trigger system of the MPD detector includes several subsystems covering the forward and central rapidity regions. In this contribution, we review the performance of the system for the collider and fixed-target modes of operation, and discuss the implications for the system size and the collision energy scans needed for successful implementation of the NICA physics program.

Primary author(s) : RIABOV, Victor (PNPI, MEPHI)

Presenter(s) : RIABOV, Victor (PNPI, MEPHI)

Session Classification : Facilities and advanced detector technologies

Track Classification : Facilities and advanced detector technologies