



Contribution ID: 23

Type: Talk

Particle identification (PID) and prospects for the study of event-by-event fluctuations in MPD

Wednesday 8 November 2017 15:35 (15 minutes)

Physics goals of Multi Purpose Detector (MPD) require excellent particle identification (PID) capability over as large as possible phase space volume. Identification of charged hadrons and light nuclei is achieved at momenta $0.1 - 3$ GeV/c. PID uses measurements by a time-of-flight (TOF) which are complemented by the energy loss (dE/dx) information from the time projection chamber (TPC). PID has phase space coverage $|\eta| \leq 1.6$. In my talk I will show some results of hadron and light nuclei identification and capability of the study of event-by-event fluctuations in MPD.

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Session Classification: Session 3; 8-nov 2017;

Track Classification: NICA acceleration and experimental complex