Contribution ID: **1242** Type: **Poster**

Transverse momentum spectra and Nuclear Modification factor in Xe-Xe collisions at 5.44 TeV under HYDJET++ framework

Friday, 8 July 2022 20:10 (20 minutes)

Transverse momentum (p_T) spectra of charged hadrons at mid-pseudorapidity in deformed Xe-Xe collisions at 5.44 Tev center-of-mass energy under the Monte Carlo HYDJET++ model (HYDrodynamics plus JETs) framework is reported. 0.15$<$ p_T $<$50 GeV/c and $|\eta|$ $<$0.8 kinematic ranges are considered. Results have been presented in the (0-70)\% centrality range. The nuclear modification factor in Xe-Xe collisions is calculated for most central, semi-central, semi-peripheral, and most peripheral collision centralities. Transverse momentum spectra and nuclear modification factor R_{AA} show strong p_T, pseudorapidity density, and centrality dependence. Average transverse momentum $\langle p_T \rangle$ as a function of collision centrality is presented. The results have been compared with ALICE experimental data.

In-person participation

No

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Session Classification: Poster Session

Track Classification: Heavy Ions