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Proton and Light Nuclei Production in Au+Au collisions at $\sqrt{s_{NN}}$ = 2.4 GeV measured with HADES

Tuesday 11 June 2019 16:10 (20 minutes)

We present high statistics data on proton and light nuclei emission from Au+Au collisions at $\sqrt{s_{NN}}$ = 2.4 GeV measured with HADES.
The data are analysed as function of reduced transverse mass $m_t - m_0$ and rapidity y in 4 centrality classes corresponding to the 40% most central events.
In contrast to higher energies light nuclei are not rare but make up about 30% of all particles participating in the collision at this energy.
The production of nuclei is discussed within two different scenarios: the thermal-statistical model and the coalescence model with a special emphasis on similarities and difference to the highest energies at the LHC measured with ALICE.

Collaboration name

HADES Collaboration

Track

Hadronisation and coalescence

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Session Classification: Hadronization and Coalescence