Lambda baryon production in heavy-ion collisions at the NA61/SHINE experiment

Friday, 19 July 2024 09:04 (17 minutes)

Strangeness production in heavy-ion collisions is a longstanding and actively researched topic, offering crucial insights into the properties of strongly interacting matter. The NA61/SHINE experiment at CERN SPS North Area is one of the leading experiments in this field, focusing on measuring hadron production in a wide range of collision energies and system sizes.

This talk emphasizes the significance of measuring strangeness production with respect to the onset of deconfinement. The first results on Lambda baryon production in medium-size systems, such as Ar+Sc, will be presented with a focus on the methodology employed in the analysis. They will be compared with available world data from proton-proton and nucleus-nucleus collisions, and selected theoretical models.

Alternate track

1. Strong Interactions and Hadron Physics

I read the instructions above

Yes

Primary author: BALKOVA, Yuliia (University of Silesia (PL))

Presenter: BALKOVA, Yuliia (University of Silesia (PL))

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