

# 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 de-confinement. 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

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