



Contribution ID: 129

Type: Poster

News on identified hadron production in central nucleus-nucleus collisions from NA61/SHINE at CERN SPS

Tuesday, June 4, 2024 7:25 PM (1 minute)

NA61/SHINE is a multipurpose fixed-target experiment located at CERN SPS. One of its main goals is to study the onset of deconfinement and the properties of strongly interacting matter. For this purpose, a unique two-dimensional scan in collision energy ($\sqrt{s_{NN}} = 5.1 - 17.3$ GeV) and system size was performed.

Results on identified hadron spectra produced in nucleus-nucleus collisions, including the first results for Xe+La system, will be presented. The kinematic distributions and the measured multiplicities of identified hadrons will be compared with NA49 Pb+Pb results, as well as with available world data.

The obtained results, and in particular the ratio of positively charged kaons to pions, are crucial for the understanding of the phenomena of the onset of deconfinement and the onset of fireball, which are some of the main studies in the strong interactions program of the NA61/SHINE experiment.

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Session Classification: Posters

Track Classification: Light-flavours and Strangeness