Contribution ID: **16** Type: **not specified**

News on identified hadron production from NA61/SHINE

Thursday 5 September 2024 11:20 (20 minutes)

NA61/SHINE is a multipurpose, fixed-target experiment located at the CERN Super Proton Synchrotron that has been designed to investigate the phase diagram of strongly interacting matter. This is achieved through a two-dimensional scan of the diagram by varying the beam momentum (13A-150(8)A GeV/c) and the system size (p+p, p+Pb, Be+Be, Ar+Sc, Xe+La, Pb+Pb). The purpose of these measurements is to understand the onset of deconfinement and to locate the critical point of strongly interacting matter.

In this talk, I will introduce the NA61/SHINE's experimental facility, the methods used for particle identification and finally, I will present the latest measurements on identified hadron production. In particular, I will review the anomaly in charged/neutral kaon-ratio production, as well as the new data on K*(892)0 production. The NA61/SHINE results will be compared with worldwide experiments and predictions of various theoretical models, like EPOS, PHSD, UrQMD, and others.

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