

On strangeness from NA61/SHINE

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NA61/SHINE is a fixed target experiment at the CERN Super-Proton-Synchrotron. The main goals of the experiment are to discover the critical point of strongly interacting matter and to study the properties of the onset of deconfinement. In order to reach these goals, a study of hadron production properties is performed in nucleus-nucleus, proton-proton and proton-nucleus interactions as a function of collision energy and size of the colliding nuclei.

In this talk, recent results on strangeness production in p+p, Be+Be and Ar+Sc collisions in the SPS energy range are reviewed. Transverse mass spectra, rapidity spectra and mean multiplicities of kaons obtained with various analysis methods are presented.

An overview of statistical and dynamical models of strangeness production in the vicinity of phase transition will be presented as well. Predictions of the models will be compared with available results on heavy-ions collisions and, most importantly, with new results on intermediate mass systems.

Author: Mr LEWICKI, Maciej Piotr (University of Wroclaw (PL))

Presenter: Mr LEWICKI, Maciej Piotr (University of Wroclaw (PL))

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