



Contribution ID: 146

Type: **Poster or pre-recorded talk**

Marjan \Cirkovi\c (for the NA61/SHINE collaboration) ”Strange-hadron production in \textit{p+p} interactions at $\sqrt{s_{NN}} = 17.3$ GeV measured by NA61/SHINE”

Tuesday 13 July 2021 20:04 (2 minutes)

NA61/SHINE (SPS Heavy Ion and Neutrino Experiment) is a fixed-target experiment at the CERN Super Proton Synchrotron. One of its research projects is the systematic measurement of hadron production in proton+proton, proton+nucleus and nucleus+nucleus interactions. These studies are performed in particular to study the predicted signals of the onset of deconfinement and search for the critical point of strongly interacting matter. For this investigation a two dimensional scan in beam momentum (13A -150A GeV/c) and nuclear mass number of colliding nuclei was performed.

This contribution reviews recent results of NA61/SHINE on strange-hadron spectra in \textit{p+p} interactions at $\sqrt{s_{NN}} = 17.3$ GeV. Recently published measurements on the production of charged kaons and several hyperons will be presented with the new results on K_S^0 mesons and $\Xi(1530)/\bar{\Xi}(1530)$ resonances. The NA61/SHINE results will be compared with other measurements and with predictions of various theoretical models, like EPOS, PHSD, SMASH, UrQMD and others.

Preferred track

Primary author: CIRKOVIC, Marjan (University of Belgrade (RS))

Presenter: CIRKOVIC, Marjan (University of Belgrade (RS))

Session Classification: Poster Session