

News on pion spectra in the NA61/SHINE collaboration.

Friday 14 July 2017 14:15 (20 minutes)

The main physics goal of the NA61/SHINE ion program is the study of the properties of the onset of deconfinement and the search for signatures of the critical point of strongly interacting matter. These goals are pursued by performing an energy and system size scan.

In this talk recent analysis results of Ar+Sc and Be+Be interactions at SPS energies are discussed. Rapidity and transverse mass spectra of pions obtained with the “h[−]” analysis method are presented. The newly obtained data is compared with recently published measurements on p+p collisions.

The procedure of obtaining the final π^- multiplicities is presented. The mean number of wounded nucleons $\langle W \rangle$ extracted from the EPOS MC model is used to obtain the $\langle \pi^- \rangle / \langle W \rangle$ ratio. Using data from other experiments, the comparison of $\langle \pi^- \rangle / \langle W \rangle$ for different measurements is discussed.

List of tracks

QCD phase diagram (BES)

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Session Classification: Parallel BES

Track Classification: QCD phase diagram (BES)