

Michał Naskręt , "Mean pion multiplicities in Ar+Sc collisions"

Report of Contributions

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Mean pion multiplicities in Ar+Sc collisions

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Final results for mean negatively charged pion multiplicities $\langle\pi^{-}\rangle$ from Ar+Sc collisions are the main topic of the talk. The data was taken recently by the NA61/SHINE collaboration for a wide range of momenta - 13, 19, 30, 40, 75 and 150 \textit{A} GeV/c. Starting with rapidity distribution of differential spectra $\frac{dn}{dy}$ extrapolated to unmeasured regions, the procedure of obtaining the final multiplicities is presented. A new scheme to calculate the mean number of wounded nucleons $\langle W \rangle$ utilizing the EPOS MC model is described. Using data from other experiments, a comparison of $\frac{\langle\pi^{-}\rangle}{\langle W \rangle}$ for different collisions and momenta is discussed.

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