

**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  $\text{GeV}/c$ . 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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