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Pion production in the 84Kr-Emulsion interactions at around 1GeV/n

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Relativistic nucleus-nucleus (A-A) and hadrons - nucleus (h-A) collisions are very useful to understand the particle production mechanism. The present work is devoted to the investigation on emitted charged pions from 84Kr36 - Emulsion interaction at 1 GeV/n. Here we have calculated the total number of wounded nucleons (W) and the total number of interactions (v) using wounded nucleon model. The obtained results revealed that the estimated number of wounded nucleons and the total number of interactions are strongly dependent on the mass number of the colliding nuclei. We have also observed that the mean multiplicity of pions increases with increasing the total number of wounded nucleons and the total number of interactions.

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