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 π^{-} production in nuclear collisions at $P_{lab} = 1-400~GeV/c$

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T he model parameters are found and corresponding changes of the code are proposed that allow one to describe satisfactorily according to the author point of view the np-collisions under the study. In particular, it allows description of meson rapidity and transverse momentum distributions. The modified FRITIOF model reproduces qualitatively also the relations between the topological cross-sections of the reactions. The changes are in the treatment of character of low mass string decay and the probability of the string creation. The model can be used at a description of diffraction dissociation and at analysis of nucleus-nucleus collisions both at intermediate and high energies. The results of neutron-neutron and nucleon-nucleon interactions were then constructed. The dependence of the mean pion multiplicity in proton-nucleus and central nuclear collisions are studied as a function of the collision energy and the nucleus mass number. The model shows good agreement mesons.

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