

Feasibility study of K_s^0 in the BM@N experiment

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The aim of the BM@N experiment is the study of collisions of elementary particles and ions with a fixed target at energies up to 4 GeV per nucleon. The experimental facility is one of the main elements of the first stage of the NICA collider development and will be used to study hot and dense matter in heavy ion collisions. It is well known that a transition from hadronic matter to Quark-Gluon Plasma (QGP) occurs during these collisions. This particular transition is accompanied by the formation of hyperons and strange particles. The focus of this study was the search for one of these strange particles, K_s^0 , in the experimental results.

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