

Strange hyperon productions at Relativistic Heavy Ion Collisions

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To investigate the possibility of successive freeze out scenario in heavy ion collisions, we have studied the production of strange hadrons microscopically, assuming the non strange hadrons to be in thermal bath. Various hadronic interactions have been considered to investigate the production of strange hyperons, such as Λ , Σ , Ξ and Ω , along with the strange mesons. Basically, their production and evolution is studied using transport equation for different colliding energies. Coupled differential equations for comoving particle densities of these strange hadrons are solved simultaneously with the evolution equations for temperature and chemical potential.

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