

Strange particle production in hybrid UrQMD model for various particlization scenarios

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The finite baryon density region of QCD phase diagram, conditions which exists inside the core of neutron stars will be explored by upcoming experiments such as CBM and MPD at FAIR and NICA facilities. As one of the key observables, production of strange particles provides insights about the medium expected to be created in the heavy-ion collisions at beam energies spanning this regime. For the optimal utilization of these future facilities, the predictions from various phenomenological and simulation models are essential. In this presentation, we will report the results from study of strange particle production using hybrid UrQMD model employed with different freeze-out prescriptions available.

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