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Recent Results on Strangeness Production at STAR

Monday 22 July 2013 14:50 (30 minutes)

Strange hadron productions are sensitive probes to the dynamics of the hot and dense matter created in heavy-ion collisions. In this talk, we will present the recent STAR measurements on the production of various strange hadrons (K0s, phi, Lambda, Xi and Omega) in $\sqrt{s_{NN}} = 7.7 - 39$ GeV Au+Au collisions in the STAR beam energy scan program. We will investigate the collision energy dependence of the strangeness enhancement, nuclear modification factors, baryon to meson ratios, as well as the phi meson elliptic flow. We will present the extracted chemical and kinetic freeze-out parameters with the thermal and blast wave models as a function of energy and centrality. The physics implications of these measurements on the collision dynamics will be discussed.

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