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Hadronic effects on the hadron abundances in heavy ion collisions

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We present results from our recent investigation on the evolution of hadron abundances in heavy ion collisions. We study the production yields of hadrons with strangeness or charm quarks at the chemical freeze-out and their evolutions in the hadronic matter. The scattering cross sections with pions and rho mesons are studied in an effective Lagrangians to describe the dominant hadronic interaction during the hadronic stage of heavy ion collisions. We show that some hadron abundances may vary significantly and this result in return can tell us the lifetime of the hadronic phase in heavy ion collisions.

Primary authors: LEE, Su Houng (Yonsei University); CHO, Sungtae

Presenter: CHO, Sungtae

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