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K^* mesons in heavy ion collisions

We study the *Kmeson production in heavy ion collisions by focusing on the hadronic effects on the K meson abundance. We evaluate the absorption cross sections of the Kmeson and kaon by light mesons in the hadronic matter, and further investigate the variation in the meson abundances for both particles during the hadronic stage of heavy ion collisions. We show how the interplay between the effective width of the K meson in the hadronic medium and the lifetime of the hadronic matter determines the final yield difference of the statistical hadronization model to the experimental measurements.*

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