

Strangeness in Quark Matter 2019



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Charmed hadron production by recombination in heavy ion collisions

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Starting from the investigation on recent experiments about charmed hadrons, e.g., nuclear modification factor ratios between charmonium states and measurements of doubly charmed hadrons, we discuss the production of those charmed hadrons by recombination in heavy ion collisions. We adopt the coalescence model, and evaluate transverse momentum distributions of not only charmonium states but also charmed hadrons such as Ξ_{cc} baryons and $X(3872)$ mesons produced from quark-gluon plasma. We discuss the important characteristics of charmed hadron production in heavy ion collisions by showing the transverse momentum distribution ratio between various charmed hadrons. We also discuss elliptic flows of charmonium states, and argue the possible relation between elliptic flows and wave function distributions in momentum space.

Collaboration name

Track

Heavy Flavour

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