

Heavy-flavor production from pp to nucleus-nucleus collisions

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Quantum Chromodynamics (QCD) predicts a deconfined state of quarks and gluons: Quark Gluon Plasma (QGP). Studying the transport and medium properties of QGP will greatly deepen our understanding of the strong interaction. Heavy quarks created in the collisions are golden probes of the medium and provide unique insights into in-medium energy loss, diffusion coefficient, hadronization mechanism and the temperature of QGP. In this talk, I will discuss the fruitful experimental studies of production of open heavy flavor hadrons and heavy quarkonia in heavy-ion collisions and the perspectives for the future experiments.

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