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Heavy and light flavor jet quenching

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Hard jets provide important tools for studying the properties of quark-gluon plasma produced in relativistic heavy-ion collisions. Jet quenching originates a combination of elastic collisions with the medium constituents and medium-induced inelastic processes experienced by the propagating jet partons. In fact, different jet-medium interaction mechanisms play different roles in various jet modification observables. I will present the studies of jet quenching for both heavy and light flavors using perturbative QCD based parton energy loss models, with particular focus given to the roles of different jet-medium interaction mechanisms and their interplay in the nuclear modifications of light flavor hadrons, open heavy flavor mesons as well as full jets.

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