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Factorization and virtuality evolution of jets in QCD medium

We discuss factorization of jet cross sections in heavy-ion collisions. First, using Glauber modelling of heavy nuclei, a factorized formula for jet cross sections is derived, which involves defining a virtuality-dependent jet functions in QCD medium. Then, we generalize the BDMPS-Z formalism to evaluate the jet function initiated by a parton with virtuality m_I^2. At the end, we disucss the interplay between vacuum-like and medium-induced radiation in the evoluton of jets at fixed order.

Secondary track

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