

XVth Quark Confinement and the Hadron Spectrum



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The theory of jet modification and energy loss in the quark-gluon plasma

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In the presence of a deconfined medium, scattering amplitudes slightly change, leaving an imprint on jet production. Precise measurements of these modified jets thus infer knowledge of the QGP phase compared to standard perturbative QCD calculations. In this talk, we review the theory of jets and their modification in a deconfined plasma on the ground of perturbation theory. We introduce a general formalism that comprehensively discusses jet-quenching models and allows us their comparison. We review the most recent progressions of jet-medium interaction and their possible applications in jet description.

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