Medium modification calculations of collinear drop observables

Collinear drop observables suppress energetic, collinear contributions and enhance the sensitivities to soft radiation where medium modifications are most significant. While the Lund plane contains comprehensive information about radiation, collinear drop observables can be concretely designed to probe specific regions of phase space which qualitative features of medium modifications may reside. In this talk I will discuss the strategy of constructing collinear drop observables, using soft-collinear effective theory with glauber interactions (SCET_G) as a jet modification model example.

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