

Heavy flavour jet substructure

Tuesday, 30 July 2024 17:20 (20 minutes)

In this talk I will present our research activity on jets substructure with heavy flavour. Our primary goal is to obtain a more profound understanding of these objects. To this end, we employ resummed perturbation theory tailored specifically for jets initiated by heavy quarks. Furthermore, we will present analytical calculations targeting various observables that characterise jets, including angularities, energy correlation functions and Soft Drop variables. I will display the main differences between our findings and the massless computations. Finally, I will compare our analytical results with Monte Carlo simulations.

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