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Factorization for Jet Substructure

Tuesday 14 March 2017 09:00 (40 minutes)

I will discuss recent advances in resummation of observables for probing the substructure of jets. By grooming the jet with soft drop, non-global logarithms in the jet mass can be removed. Extending the factorization theorem for soft drop jet mass, we are able to calculate the distribution of D_2 , an observable that is sensitive to two-prong structure in the jet. The soft dropped D_2 distribution is remarkably robust: we show that it is approximately independent of jet energy, non-perturbative corrections are suppressed by the jet mass, and fixed-order corrections can be formally made arbitrarily small.

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