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Jet Mass for the Inclusive Jet Production at the LHC

Friday, 1 June 2018 17:30 (20 minutes)

In this talk, I will develop the theoretical framework of jet substructure measurements in the semi-inclusive jet production. The talk will mainly be focused on the recent work on jet mass measurements, with and without grooming, as a particular substructure of interest. I will discuss factorization, nonperturbative effects, and joint resummations of several classes of logarithmic corrections to all orders. Then I will discuss how both ungroomed and groomed results give very good agreement with the available data from the LHC.

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