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36-Jet substructure tools to identify hadronization timescales

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Jets are algorithmic proxies of hard scattered partons, i.e. quarks/gluons, in high energy collisions. The clustering algorithms used in jet measurements contain additional information regarding the jet shower. This work focused on proton-proton collisions and uses the soft-drop algorithm procedure as an additional handle to exploit the jet shower splitting pattern. An analysis of the jet formation time at different splittings inside the jet shower shows promise in the search for the hadronization timescales.

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