

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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Precision Jet/Event Substructure Using Collinear Drop

Wednesday, March 25, 2020 11:00 AM (20 minutes)

I will present a new class of jet/event substructure observable called collinear drop and its use in the search for novel signatures of jet modifications and medium responses. I will demonstrate using Monte Carlo simulations generated with Jewel how underlying jet-medium interactions can be systematically examined using collinear-drop observables. I will also give analytic insights on the modifications of such observables using soft-collinear effective theory with Glauber gluon interactions. Studies using LEP open data and applications to DIS will be presented.

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Session Classification: QCD with Heavy Flavors and Hadronic Final States

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