

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 42

Type: **Contributed Talk**

Precision Jet/Event Substructure Using Collinear Drop

Wednesday, 25 March 2020 11:00 (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.

Primary author: Dr CHIEN, Yang-Ting (Stony Brook University)

Presenter: Dr CHIEN, Yang-Ting (Stony Brook University)

Session Classification: QCD with Heavy Flavors and Hadronic Final States

Track Classification: QCD with Heavy Flavors and Hadronic Final States