Contribution ID: **3** Type: **Oral Presentation**

Searching for Novel Jet Substructure Modifications Using Collinear Drop

I will present a new class of jet 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.

Collaboration (if applicable)

Track

Jets and High Momentum Hadrons

Contribution type

Contributed Talk

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Track Classification: Jets and High Momentum Hadrons