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Reconstructed Jets and Jet Substructure in 200 GeV p+p/d+Au Collisions with PHENIX

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Measurements of reconstructed jets and jet substructure offer opportunities to study fragmentation in a nuclear environment. However, at RHIC this promise is complicated by the low jet energies and lack of hadronic calorimetry in the current experiments. In this poster, we report new results with reconstructed jets, including substructure measurements applying jet grooming techniques, in p+p collisions at a center of mass energy of 200 GeV using the PHENIX experiment. The measurements are unfolded for detector response using a multi-dimensional algorithm to extract both the cross section and jet substructure quantities in a self-consistent fashion. These measurements have implications for developing a quantitative understanding the modification of jets in heavier systems, such as p+Au, Cu+Au collisions at RHIC.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

PHENIX, Brookhaven National Laboratory

Is the speaker for that presentation defined?

Yes

Details

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Yes

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