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Jet Measurements in p+p collisions at $\sqrt{s}$= 200 GeV with the PHENIX experiment at RHIC.

The PHENIX collaboration has measured jet cross-section and jet substructure in p+p collisions at $\sqrt{s} = 200GeV$. Jets are reconstructed from charged particle tracks and electromagnetic calorimeter clusters using the anti-k_T algorithm with a jet radius $R = 0.3$, transverse momentum within $8 < p_T < 40\ GeV$ and pseudorapidity $|\eta| < 0.15$. We will present the jet cross-section, soft-drop momentum fraction z_g , charged particle transverse momentum j_T with respect to the jet axis, fraction of the jet momentum carried by the charged particle in the jet. The results are going to be discussed along with theoretical NLO and NNLO calculations, tuned PYTHIA, and other experimental results.

Category

Experiment

Collaboration

PHENIX

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Track Classification: 1. Jets modification and medium response