

Abstract Submitted  
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**An Investigation of the Measurement of Jet Shape Dependence on Jet Mass using Pythia.** ESHA RAO, Rutgers University Department of Physics and Astronomy, SEVIL SALUR TEAM — Jet mass, as measured by the jet reconstruction algorithm, is expected to be constrained by the virtuality of jets resulting in considerable effects on the jet shapes and fragmentation functions. In this poster, we will be showing the jet shape variable dependence on jet mass in Monte Carlo simulations for RHIC energies. This study can be used to optimize the kinematic selection of jets in data, such as the transverse momenta of jet constituents.

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