

Abstract Submitted
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Top mass measurement in the all-jet channel with a template method AYESH JAYASINGHE, University of Oklahoma, D0 COLLABORATION
— We describe the measurement of the top quark mass applying a template method in the all hadronic jets final state using the full data set collected with the D0 detector at the Fermilab Tevatron collider. The data sample selected for this analysis consists of six hadronic jets with two jets required to have a secondary vertex, which is indicative of a b quark jet. The method employs templates that are generated by selecting the reconstructed top quark mass and W boson mass from a kinematic fitter applied to Monte Carlo generated signal and data-derived background. The templates are then compared to data to extract the top quark mass and jet energy scale correction. The current status of the analysis including the calibration procedure will be discussed.

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