

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

Measurement of the $t\bar{t}$ Production Cross Section at D0 Using τ +Jets Events MIKHAIL AROV, Louisiana Tech University, D0 COLLABORATION — We report on the measurement of the $t\bar{t}$ production cross section with candidate events in which the W boson from one of the top quarks decays into a tau lepton and the associated neutrino while the other W boson decays to a quark-antiquark pair. We select events in which the tau lepton subsequently decays to one or three charged hadrons plus neutral hadrons and a neutrino. The measurement is based on 1 fb^{-1} of data. The signal was discriminated from background using kinematic information and by requiring an identified b jet.

Graham Wilson
University of Kansas

Date submitted: 08 Jan 2008

Electronic form version 1.4