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Measurement of $t\bar{t}$ pair production at D0 using lepton+hadronic τ events SUHARYO SUMOWIDAGDO, Florida State University, D0 COLLABORATION — We present the measurement of top quark-antiquark pair production in lepton+hadronic tau channel using approximately 0.9 inverse femtobarn of D0 data. We select events with one isolated high p_T electron or muon, one isolated hadronic tau, high missing transverse energy, and two high p_T jets. One or more of the jets are required to have originated from a b quark by applying neural network tagging algorithm. We discuss the results both within the context of Standard Model and a semi model-independent approach of non-SM production mechanism of tau lepton in top quark decay.

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