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Preliminary measurement of the top quark pair production in the τ + jets final state with 20 fb^{-1} of pp collision data recorded at $\sqrt{s}=8$ TeV with the ATLAS experiment AHMED HASIB, Univ of Oklahoma, CATRIN BERNIUS, Louisiana Tech University, PHILLIP GUTIERREZ, Univ of Oklahoma, ATLAS EXPERIMENT COLLABORATION — A preliminary measurement of the top quark pair production cross section in the final state containing a tau lepton that has decayed semi-hadronically and associated jets is presented. The signal events are required to have at least four jets with at least one that is a b-tagged jet. The analysis uses data with an integrated luminosity of 20 fb^{-1} recorded by the ATLAS experiment in proton-proton collisions at the Large Hadron Collider at a center-of-mass energy of 8 TeV.

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