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Measurement of $t\bar{t}$ production cross section in the lepton+jets channel using Jet Probability b -tagging at CDF ENRIQUE PALENCIA, CDF COLLABORATION, INSTITUTO DE FISICA DE CANTABRIA TEAM —

We present a preliminary measurement of the $t\bar{t}$ pair production cross section in the collisions of protons and anti-protons at 1.96 TeV at the Collider Detector at Fermilab (CDF). The measurement uses $t\bar{t}$ decays into final states which contain one high transverse momentum lepton and multiple jets, where one of the jets is required to be identified as a b -jet candidate from the information of the tracks impact parameter resolution using the SVXII Silicon Vertex detector. The performance of the tagging algorithm used in this analysis is also discussed.

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