

Abstract Submitted  
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**Measurement of the  $t\bar{t}$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV Using Lepton Plus Jets Events with Secondary Vertex **b-Tagging**** SAL RAPPOCCIO, Harvard University — We present a preliminary measurement of the  $t\bar{t}$  pair production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using  $340 \text{ pb}^{-1}$  of data collected by the CDFII detector at the Fermilab Tevatron. We measure the cross section in events with one high high transverse momentum lepton and 3 or more jets, where at least one  $b$ -jet is identified via a displaced vertex algorithm.

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