

Abstract Submitted  
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**Measurement of the  $t\bar{t}$  production cross section at D0 using  $\tau$ +jets events** AMNON HAREL, University of Rochester, 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.

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