

Abstract Submitted  
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**Search for Standard Model Higgs Boson Production in Association with  $W^\pm$  Bosons at CDF** YOSHIAKI KUSAKABE, Waseda, CDF COLLABORATION — We present a search for the Standard Model Higgs boson decaying into  $b\bar{b}$  after being produced in association with a  $W^\pm$  boson in the  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV. The search uses the data collected up to fall 2005 using the CDF detector, which corresponds to an integrated luminosity of about  $700\text{ pb}^{-1}$ . Events with an electron or muon, large missing transverse energy and jets are selected using an advanced multivariate technique and at least one of the jets is required to be  $b$ -tagged for further reduction of the large  $W^\pm$ +jet background. We set a limit on the  $p\bar{p} \rightarrow W^\pm H$  production cross section.

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