

Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Search for heavy generation down-type quark in the same-charge dilepton signature at CDF MATT HICKMAN¹, DANIEL WHITESON, UC Irvine, MICHAEL WILSON, SLAC, DAVID BERGE, CERN, CDF COLLABORATION — Using data collected at the CDF detector in Run II at the Tevatron we present a search for pair production of heavy b -like quarks each of which decay to a top quark and a W boson, yielding a $b\bar{b}WWWW$ final state. The mode in which two same-charge leptons are produced is very sensitive because while the signal branching ratio is reasonable, same-charge dilepton events are rare in the Standard Model. We also impose a met and b -tag requirement. We present our preliminary results as well as future plans to improve our analysis.

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Date submitted: 08 Jan 2009

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