

Abstract Submitted  
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**Search for a Charged Higgs Boson with Decay to a Top Quark and a Bottom Quark at D0** CHRISTOPHER POTTER, McGill University, D0 COLLABORATION — The large mass of the top quark, close to the electroweak symmetry-breaking scale, makes it a good candidate for probing physics beyond the Standard Model. Single top quarks may be produced in the decay of a charged Higgs boson predicted by several extensions of the Standard Model. We present limits on the production cross section of such a particle using a  $0.9 \text{ fb}^{-1}$  dataset.

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