## Abstract Submitted for the APR07 Meeting of The American Physical Society

Measurement of single top quark production at D0 using decision trees JOHN BACKUSMAYES, University of Washington, D0 COLLABORATION—We present evidence for single top quark production in proton- antiproton collisions using a dataset of almost 1 fb<sup>-1</sup> collected with the D0 detector. Single top quarks are expected to be produced in association with bottom quarks through the exchange of a W boson in the s- channel and the t-channel. We select events with one energetic electron or muon, missing transverse energy, and two, three or four jets, with at least one b-tagged jet. This analysis uses boosted decision trees to separate the signal from the background. We measure a cross section compatible with the Standard Model prediction for electroweak production of single top.

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