

Abstract Submitted
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Search for W' production in the single top channel with the ATLAS detector PATRICK TRUE, Michigan State University, ATLAS COLLABORATION — We present the search for $W' \rightarrow tb$ using the LHC pp collision data collected with the ATLAS detector at a center-of-mass energy of 7 TeV. The largest backgrounds are the $t\bar{t}$, W +jets, and multijets processes. To reduce their contribution we require an energetic final state including two jets, at least one must be tagged as a b-jet, one lepton, and missing energy. This measurement gives the latest limits on the $W' \rightarrow tb$ cross section times branching ratio as a function of the W' mass.

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