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Searches for Single Top-Quark Production with the ATLAS Detector in pp Collisions at $\sqrt{s} = 7$ TeV (15' + 5')

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We present the result of searches for single top-quark production in the t- and Wt-channels in 7 TeV proton-proton collisions with the ATLAS detector using the full 2010 data sample. The t-channel search is based on the selection of events with a single lepton (muon or electron), jets and missing transverse energy. A likelihood function approach is also used to cross-check the result. Results are consistent with the Standard Model expectation. The Wt-channel analysis is based on the selection of events with one or two leptons, jets and missing transverse energy. A 95% confidence level limit is set on the Wt-channel production cross section of $\sigma(Wt)$.

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