

ATLAS discovery prospects for the charged Higgs in the $H^{\pm} \rightarrow \tau \nu$ final state

We present projections for the ATLAS sensitivity to a light charged Higgs boson in channel $H^{\pm} \rightarrow \tau \nu$, present in models beyond the Standard Model, with an expected dataset corresponding to an integrated luminosity of 1fb^{-1} gathered at the ATLAS detector with the LHC running at 7 TeV. The results are based on re-scaling expectations from detailed analyses at 10 TeV using cross-section ratios.

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