

ICHEP2012



Contribution ID: 168

Type: **Parallel Sessions**

Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau \nu$ in $t\bar{t}$ events with the ATLAS detector

Friday 6 July 2012 14:45 (15 minutes)

The results of a search for charged Higgs bosons are presented. The analysis is based on proton-proton collision data recently collected by the ATLAS experiment at the Large Hadron Collider, using $t\bar{t}$ events with a tau lepton in the final state. The data are consistent with the background from Standard Model processes. Assuming branching ratio $BR(H^{\pm} \rightarrow \tau \nu) = 100\%$, this leads to upper limits on the branching fraction $BR(t \rightarrow bH^{\pm})$.

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Session Classification: Plenary3 - The Standard Model -TR1

Track Classification: Track 1 - The Standard Model and EW Symmetry Breaking - Higgs Searches