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Search for a light charged Higgs boson decaying to csbar in pp collisions at sqrt(s)=7 TeV

We present the search results for a light charged Higgs boson produced in top pair events and decaying into csbar in pp collisions at sqrt(s)= 7 TeV with the ATLAS detector. The analysis uses a data sample corresponding to an integrated luminosity of 35 pb^{-1}. The search is based on the semi-leptonic channel of ttbar candidates and analyzes the invariant mass distribution of two jets in the final state. With no observation of the charged Higgs signal, we set 95% upper limits on the decay branching ratio of top quarks to charged Higgs bosons.

Auteur principal: Dr MARTYNIUK, Alex (University of Manchester)

Orateur: Dr MARTYNIUK, Alex (University of Manchester)

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