



**HEP 2013  
Stockholm  
18-24 July 2013**



Contribution ID: 564

Type: **Poster Presentation**

## **A search of new charged heavy gauge $W'$ bosons with the ATLAS detector at the LHC.**

Many theoretical approaches beyond the Standard Model involve enhanced symmetries that introduce new charged vector current carried by new heavy gauge boson, usually called  $W'$ . This poster presents a search of the  $W'$  boson, decaying to a top and a b quark in an effective coupling approach. It reports preliminary exclusion limits on the  $W' \rightarrow tb$  cross section times branching ratio as a function of the  $W'$  boson mass.

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**Track Classification:** Top and Electroweak Physics