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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 $W' \longrightarrow tb$ cross section times branching ratio as a function of the W'boson mass.

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