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Search for pair production of vector-like quarks in final states with a boosted W boson and b -jet with the ATLAS experiment

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This talk will present a search for the pair production of heavy vector-like T and B quarks, primarily targeting T quark decays to a W boson and a b quark. The search is based on 36 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ recorded in 2015 and 2016 with the ATLAS detector at the CERN Large Hadron Collider. Data are analyzed in the lepton plus jets final state, including at least one b -tagged jet and a large-radius jet identified as originating from the hadronic decay of a high-momentum W boson.

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