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Searches for fourth generation vector-like quarks and ttbar resonances with the ATLAS detector

Monday 6 May 2013 17:30 (15 minutes)

Various extensions of the Standard Model predict the existence of new types of quarks. We report on several search channels such as vector-like quarks decaying to a Higgs boson and a top quark or to a W boson and a b quark. The talk presents results from searches for new resonances decaying to a top-antitop pair, including the use of boosted top quark reconstruction techniques.
These searches use the data sample recorded in 2012 at sqrt(s)=8 TeV centre-of-mass energy by the ATLAS experiment at the LHC.

Author: SWEDISH, Stephen (University of British Columbia (CA))

Presenter: SWEDISH, Stephen (University of British Columbia (CA))

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