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Search for vector-like quarks in fully hadronic final states with the ATLAS detector

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This poster is presenting a search for pair produced vector-like quarks decaying in to a fully hadronic final state using 36.1 fb^{-1} of pp collisions with a center of mass energy of 13 TeV collected by the ATLAS experiment. We consider the decays of pair produced T and B vector-like quarks in to third generation standard model quarks with Higgs boson and gauge bosons W and Z. The analysis uses the variable radius re-clustering algorithm to reconstruct the large-radius jets and a multi-class deep neural network is used to tag the jets as hadronically-decaying top quarks, Higgs bosons, W bosons or Z bosons.

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