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Search for new resonances decaying into a Higgs boson and a generic new boson X in the XH -> qqbb final state with the ATLAS detector

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A search for heavy resonances Y decaying into a Standard Model Higgs boson (H) and a new boson (X) is performed with proton-proton collision data with the ATLAS detector at the CERN Large Hadron Collider. The Physics channel where the Higgs decays into bb and the X to light quarks are considered, thus resulting in a fully hadronic final state. A two-dimensional phase space of XH mass versus X mass is scanned for evidence of a signal. Upper limits are set on the production cross-section of the resonance as a function of XH and X masses.

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