

Search for a resonance decaying into two photons in association with b jets

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In this article we search for a heavy resonance decaying into two photons in association with b jets. The search uses 139 fb^{-1} proton–proton collision data taken from the ATLAS detector at the centre-of mass energy of 13TeV during 2015 to 2018. Three models are tested in this final state. A Higgs boson like heavy scalar X produced with top quarks, b quarks or Z boson decaying into $b\bar{b}$ are examined. Limits are set on these models for the resonance mass ranging from 180GeV-1.5TeV

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