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Search for the Higgs boson in the diphoton decay channel with the ATLAS detector

Saturday, July 7, 2012 3:00 PM (15 minutes)

A search for the Standard Model Higgs boson in the diphoton decay channel in proton-proton collisions using recent data collected with the ATLAS detector at the LHC, over the diphoton mass range 110-150 GeV is reported. Upper limits on the cross-section times branching ratio are derived. Additionally, the results of the search for the fermiophobic Higgs boson are presented, based on the 4.9 fb⁻¹ of data collected in 2011 at a centre-of-mass energy of 7 TeV.

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