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Measurement of Higgs boson production in the diphoton decay channel with the ATLAS experiment

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The measurement of the production cross section of the Higgs boson in the diphoton decay channel is presented, using proton-proton collision data collected at $\sqrt{s}=13$ GeV by the ATLAS experiment 2015 and 2016. Diphoton candidate events from different production modes are analyzed by a simultaneous fit to the invariant mass spectrum.

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