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Dark matter search in events with missing transverse energy and a Higgs boson decaying to two photons with the ATLAS detector

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Data from pp collisions at a center-of-mass energy of 13 TeV, corresponding to an integrated luminosity of 36.1 fb^{-1} has been collected with the ATLAS detector in 2015 and 2016. In this search, we look at the Standard Model Higgs boson production in the diphoton channel produced in association with missing transverse energy using three benchmark models. The analysis is performed in several categories based on MET and MET significance. No significant excess over the expected background is observed.

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