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Evidence for Higgs Boson Decays to the $\tau\tau$ Final State with the ATLAS Detector

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I will present results of a search for the 125 GeV Higgs boson decaying to a pair of tau leptons. The dataset used is 20.3fb^{-1} of proton-proton collision recorded by the ATLAS detector at a centre of mass energy of 8 TeV. The observed (expected) deviation from the background only hypothesis corresponds to a significance of 4.1 (3.2) standard deviations. The measured signal strength is $\mu = 1.4^{+0.5}_{-0.4}$.

This constitutes evidence for the existence of Higgs to $\tau\tau$ decays and is consistent with the Standard Model expectation of a Higgs Boson with mass 125 GeV.

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