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Search for rare decays of the Higgs boson with the ATLAS detector

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The Standard Model predicts several rare Higgs boson decay channels, among which are decays to a Z boson and a photon, $H \rightarrow Z\gamma$, and to a low-mass lepton pair and a photon $H \rightarrow \ell\ell\gamma$. The observation of these decays could open the possibility of studying the CP and coupling properties of the Higgs boson in a complementary way to other analyses. Results based on 139 fb^{-1} of pp collision data collected at 13 TeV will be presented.

Collaboration / Activity

ATLAS

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