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Search for the Standard Model Higgs boson in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel with the ATLAS detector

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A search for the Standard Model Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow l+l+l+l$ where $l = (e, \mu)$ is performed, based on the proton-proton collision data recorded recently with the ATLAS detector. Upper limits are derived on the cross section of a Standard Model Higgs boson with a mass between 110 GeV and 600 GeV.

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