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Search for a Standard Model Higgs in the mass range 200-600 GeV in the channel $H \rightarrow ZZ \rightarrow llqq$ with the ATLAS detector

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This talk describes the search for the Standard Model Higgs boson decaying via the channel $H \rightarrow ZZ \rightarrow l+l-qq$, where $l = e$ or μ .

The analysis was developed considering separately two Higgs boson mass ranges: High Mass (200-600GeV) and, for the first time, the Low Mass range (120-200GeV) using 4.7 fb⁻¹ of pp collision data recorded by the ATLAS experiment at the LHC.

Events with two b-tagged jets, which have a better signal-to-background ratio, are treated as a separate channel to improve the sensitivity of the search.

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