

Combined SM Higgs search

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Combined ATLAS results on the Standard Model-like Higgs boson search are presented, based on the ATLAS data collected in 2010 and 2011. Several Higgs boson decay channels are combined: $H \rightarrow \gamma\gamma$, $H \rightarrow ZZ \rightarrow 4l$, $H \rightarrow ZZ \rightarrow \ell\nu\ell\nu$, $H \rightarrow ZZ \rightarrow \ell\ell q\bar{q}$, $H \rightarrow WW \rightarrow \ell\nu\ell\nu$ and $H \rightarrow WW \rightarrow \ell\nu q\bar{q}$ in a mass range from 110 GeV to 600 GeV. Models with a fourth generation of heavy leptons and quarks with Standard Model-like couplings to the Higgs boson are also investigated.

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