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Search for the Standard Model Higgs boson at ATLAS

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The experimental results of the search for the Standard Model Higgs boson at the Large Hadron Collider (LHC) running at a centre-of-mass energy of 7 TeV are reported, based on a total integrated luminosity of up to 4.9 fb⁻¹ collected by the ATLAS detector in 2011. The search combines several Higgs boson decay channels in the mass range from 110 GeV to 600 GeV and derives upper limits on the production cross section as a function of the Higgs boson mass. A wide range of Higgs boson mass hypotheses is excluded at a 95% confidence level. Some excess of events is also reported.

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