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Searches for a heavy 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. Several channels contributing to the sensitivity in the high-mass region above mH-200 GeV are discussed. Upper limits are derived 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.

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Collaboration Name
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ABC Collaboration

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