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The Combination of Higgs Searches with the ATLAS Detector

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Upper limits on the cross section of Standard Model Higgs boson production at the Large Hadron Collider (LHC) running at a centre-of-mass energy of 7 TeV are determined, based on the searches performed by the ATLAS Collaboration. 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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