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Searches for a light Higgs boson at ATLAS

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The experimental results of the Standard Model Higgs searches with the ATLAS experiment, in a dataset corresponding to an integrated luminosity of up to 4.9 fb^{-1} of pp collisions collected at $\sqrt{s} = 7 \text{ TeV}$ at the LHC, are presented. Several channels contributing to the sensitivity in the most challenging low-mass region are discussed. The exclusion limits at the 95% confidence level are given as a function of the Higgs boson mass. The observed small excess of events above the background expectation is addressed.

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Collaboration Name
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ATLAS Collaboration

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