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Type: **Ordinary**

SM scalar boson search with ATLAS

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Latest results of the Standard Model searches for the Scalar Boson with the ATLAS experiment are presented, based on 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. A wide range of the Scalar Boson masses from 110 GeV to 600 GeV has been explored. The exclusion limits at the 95% confidence level are given as a function of the Scalar Boson mass for individual channels and their combination. An observed small excess of events above the background expectation is addressed.

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Classification de Session: EWSB in the Standard Model

Classification de thématique: Experiment