

Search for a high-mass Higgs boson decaying to a pair of W bosons in pp collisions at 13 TeV with the ATLAS detector

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In this poster a search for a high-mass Higgs boson in the $H \rightarrow WW \rightarrow l\nu l\nu$ decay channel is presented. The search is using pp collision data corresponding to an integrated luminosity of 13.2 fb⁻¹ collected at a centre-of-mass energy of 13 TeV by the ATLAS detector at the Large Hadron Collider. No evidence of a high-mass Higgs boson is found. Upper limits on $H \times BR(H \rightarrow WW)$ as a function of the Higgs boson mass and width are obtained in the mass range between 300 GeV and 3 TeV.

Primary author(s) : Mr. GAVRILIUK, Aleksandr (Institute for Theoretical and Experimental Physics (RU))

Presenter(s) : Mr. GAVRILIUK, Aleksandr (Institute for Theoretical and Experimental Physics (RU))

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