

Spin measurements of the Higgs-like resonance in the $WW \rightarrow l\nu l\nu$ decay mode in ATLAS

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The characterization of the new boson, discovered in the search for the SM Higgs boson, is currently a priority in high-energy physics. Determination of the J^P quantum numbers of the boson are vital to this end. In the ATLAS collaboration, analyses to discriminate between the $J^P = 0^+$ vs 1^+ , 1^- and 2^+ states have been performed in the $H \rightarrow WW \rightarrow l\nu l\nu$ channel using 21 fb⁻¹ of data at a CM energy of 8 TeV. In this talk, I describe the analyses and present results.

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