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Search for a high mass Higgs boson in the H->WW-> e nu mu nu channel in pp collisions at sqrt(s)=13 TeV with the ATLAS detector

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A search for a high-mass resonance decaying to WW is performed in the e nu mu nu final states using pp collision data collected at sqrt(s)=13 TeV by the ATLAS detector at the Large Hadron Collider. Different hypotheses are tested, including heavy Higgs with a narrow width approximation and a large width assumption. Three orthogonal event categories are defined for the search: one ggF quasi-inclusive category where the VBF phase spaces are excluded and two VBF categories where the VBF signals are dominant.

Summary

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