

ATLAS Searches for VH/HH Resonances

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The discovery of a Higgs boson at the Large Hadron Collider (LHC) motivates searches for physics beyond the Standard Model (SM) in channels involving coupling to the Higgs boson. A search for a massive resonance decaying into a standard model Higgs boson (h) and a W or Z boson or two a standard model Higgs bosons is performed. The results of a search for non-resonant Higgs boson pair production in a combination of six decay modes with 36fb^{-1} is given, along with two new and ground-breaking results with 140fb^{-1} .

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