

# Search for resonant W Z production in the fully leptonic final state in proton–proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

*Thursday, 20 December 2018 17:15 (15 minutes)*

A search for a heavy resonance decaying into WZ in the fully leptonic channel (electrons and muons) is performed. It is based on proton-proton collision data collected by the ATLAS experiment at the Large Hadron Collider at a center-of-mass energy of 13 TeV, corresponding to an integrated luminosity of 36.1 fb<sup>-1</sup>. No significant excess is observed over the Standard Model predictions and limits are set on the production cross section times branching ratio of a heavy vector particle produced either in quark-antiquark fusion or through vector-boson fusion. Constraints are also obtained on the mass and couplings of a singly charged Higgs boson, in the Georgi–Machacek model, produced through vector-boson fusion

## Type

Parallel talk

## Sessions (parallel only)

Beyond Standard Model

**Primary author:** Mr LU, Miaoran (USTC)

**Presenter:** Mr LU, Miaoran (USTC)

**Session Classification:** Beyond Standard Model

**Track Classification:** Beyond Standard Model