Contribution ID: **137** Type: **not specified**

Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at sqrt(s) = 13 TeV with the ATLAS detector

Abstract:

A search for a heavy resonance decaying to WZ in the fully leptonic channel is performed. It is based on proton-proton collision data collected by the ATLAS experiment at the Large Hadron Collider at a centre-of-mass energy of 13 TeV, corresponding to an integrated luminosity of 36.1/fb. No significant excess is observed over 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, in the Georgi-Machacek model, produced through vector boson fusion.

Presenter: DAHBI, Salah-Eddine (Universite Mohammed V (MA))

Session Classification: Nuclear and Particle physics