

# Phenomenology 2020 Symposium



Contribution ID: 965

Type: **Parallel Talk**

## Beyond exclusive leptonic resonances with the ATLAS detector

*Tuesday 5 May 2020 14:15 (15 minutes)*

Exclusive dilepton resonance have been a cornerstone of LHC searches probing the highest energies. However, given that no derivations from the SM have been observed with the full run-2 data. it is necessary to go beyond this simple paradigm. This includes searches for non-resonant dilepton phenomena, such as may be produce by a resonance above the scale of direct detection at the LHC, or in inclusive final states in association with jets, as predicted for example by models such as Quantum Black Holes, heavy neutrinos or leptoquarks. The results of the most recent searches on 13 TeV pp data will be presented.

### Summary

**Primary author:** VANNICOLA, Damiano (Sapienza Universita e INFN, Roma I (IT))

**Co-author:** ATLAS COLLABORATION

**Presenter:** VANNICOLA, Damiano (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** BSM III

**Track Classification:** BSM