

## **Searches for low- and high-mass Higgs-like resonances with the ATLAS detector**

*Thursday, 23 September 2021 17:45 (25 minutes)*

Several theories beyond the Standard Model predict the existence of new particles decaying into pairs of gauge bosons. These states generally have masses larger than that of the Higgs boson, while some theories predict resonances with masses smaller than it. The latest ATLAS results on searches for such resonances in final states with leptons and photons based on pp collision data collected at 13 TeV will be presented.

**Primary author:** PASCUAL DOMINGUEZ, Luis (Tel Aviv University (IL))

**Presenter:** PASCUAL DOMINGUEZ, Luis (Tel Aviv University (IL))

**Session Classification:** Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics

**Track Classification:** Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics.