



Contribution ID: 86

Type: **Oral**

## Dark Matter searches with the ATLAS Detector

*Friday, 7 June 2019 12:10 (30 minutes)*

The presence of a non-baryonic dark matter (DM) component in the Universe is inferred from the observation of its gravitational interaction. If dark matter interacts weakly with the Standard Model (SM) it could be produced at the LHC, escaping the detector and leaving a large missing transverse momentum as their signature. The ATLAS experiment has developed a broad and systematic search program for DM candidates, including resonance searches for the mediator which would couple DM to the SM. The results of these searches on 13 TeV pp data, their interplay and interpretation will be presented, along with some prospects for the HL-LHC.

### Collaboration name

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**Session Classification:** Astroparticle Physics and Cosmology

**Track Classification:** Astroparticle Physics and Cosmology