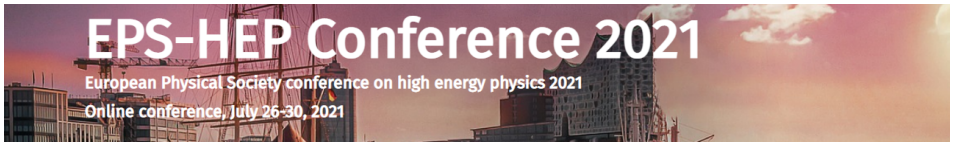

Contribution ID: **235** Type: **Parallel session talk**

Searches and techniques for boosted resonances (non-diboson) with the ATLAS detector

Monday 26 July 2021 17:00 (15 minutes)

Many new-physics signatures at the LHC produce highly boosted particles, leading to close-by objects in the detector and necessitating jet substructure techniques to disentangle the hadronic decay products. This talk presents the latest ATLAS results for searches for heavy W'and Z'resonances in top-bottom, di-top and 4-top final states using 13 TeV data. It will explain the techniques used, including new top-tagging techniques using machine learning and the use of large-radius jets containing electrons.

Collaboration / Activity

ATLAS

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Presenter: DELITZSCH, Chris Malena (University of Arizona)

Session Classification: T10: Searches for New Physics

Track Classification: Searches for New Physics