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## Searches for boosted resonances in hadronic final states in the ATLAS experiment

*Friday, 8 July 2022 18:00 (15 minutes)*

Many extensions to the Standard Model predict new particles decaying into two bosons (W, Z, photon, or Higgs bosons) making these important signatures in the search for new physics. Searches for such diboson resonances have been performed in different final states and novel analysis techniques, including unsupervised learning, are also used to extract new features from the data. This talk summarises such recent ATLAS searches with Run 2 data collected at the LHC and explains the experimental methods used, including vector- and Higgs-boson-tagging techniques.

### In-person participation

Yes

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**Session Classification:** Beyond the Standard Model

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