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# BSM searches with jet substructure

*Wednesday 30 November 2022 17:00 (15 minutes)*

This talk will describe BSM searches with jet substructure in Atlas, CMS, and LHCb experiments. It will be focus on the newest results from full-RunII analysis exploiting the state of the art tecquinques that allow to identify the internal structure of jets stamming from decay cascades of heavy particles like Vector bosons, Higgs bosons, Top quarks that exhibit a large Lorentz boost in the detector rest frame. Such topologies are typical of new physics signatures, and therefore efficient and accurate identification of such boosted candidates is crucial to LHC physics program in order to discover hints of New Physics.

## Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

## Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

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**Session Classification:**  Parallel C - WG5: 2

**Track Classification:**  WG5: Jet Physics