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## Searches for new phenomena in final states with 3rd generation quarks using the ATLAS detector

*Thursday, 7 July 2022 17:00 (15 minutes)*

Many theories beyond the Standard Model predict new phenomena, such as heavy vectors or scalars, as well as vector-like quarks, in final states containing bottom or top quarks. Such final states offer great potential to reduce the Standard Model background, although with significant challenges in reconstructing and identifying the decay products and modelling the remaining background. The recent 13 TeV pp results, along with the associated improvements in identification techniques, will be reported.

### In-person participation

Yes

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**Session Classification:** Beyond the Standard Model

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