

# Phenomenology 2022 Symposium: From Virtual to Real



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

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Many theories beyond the Standard Model predict new phenomena, such as heavy vectors or scalar, vector-like quarks, and leptiquarks 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.

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