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Search for resonances in hadronic final states with the ATLAS detector

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Many theories beyond the Standard Model predict new phenomena which decay to quarks. Light-quarks are of particular interest at the LHC since new phenomena produced in parton collisions are likely to produce final states with (at least) two partons. On the other hand, b- and top-quarks 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. Recent searches in various hadronic final states performed with the ATLAS experiment at the LHC on the 13 TeV data will be presented, along with some prospects for HL-LHC.

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