

# Resonance Searches with B-jets in the Final States with the ATLAS Detector

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Many BSM models with enhanced couplings to third generation fermions have been proposed to incorporate the persistent anomalies observed in flavor physics experiments. Resonance searches with b-jets in the final states provide excellent opportunities to probe this scenario. A search for di-jet resonances with one or two jets identified as b-jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV collected with the ATLAS detector is discussed in detail. In addition, an ongoing search for similar resonances produced in association with extra b-jets is introduced.

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