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Search for New Physics with the ATLAS Detector in pp Collisions at $\sqrt{s} = 7$ TeV in Hadronic Final States with Missing Transverse Energy and Heavy Flavor BART BUTLER, SLAC National Accelerator Laboratory, ATLAS COLLABORATION — Results are presented of a search for new physics in events with hadronic final states, large missing transverse momentum and b-tagged jet candidates in $\sqrt{s} = 7$ TeV proton-proton collisions. Several signal regions corresponding to different regions of kinematic phase space are examined. The data sample was recorded by the ATLAS experiment at the Large Hadron Collider in 2011. The results are interpreted in the context of phenomenological new physics models.

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