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## Search for New Physics in pp Collisions at $\sqrt{s} = 7$ TeV in Final States with Missing Transverse Energy and Heavy Flavor

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Results are presented of a search for new physics in events with large missing transverse energy and heavy flavor jet candidates in  $\sqrt{s}=7$  TeV proton-proton collisions with the ATLAS detector at the Large Hadron Collider. Several signal regions corresponding to different regions of phase space are examined. The results are interpreted in the context of phenomenological simplified new physics models as well as universal new physics models such as mSUGRA.

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