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Searches for monojets and monophotons with the ATLAS detector

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The compactification of the extra spatial dimensions in the Arkani-Hamed, Dimopoulos, and Dvali model results in a Kaluza-Klein tower of massive graviton modes. These graviton modes are produced in association with a jet or a photon and do not interact with the detectors, resulting in a monojet or a monophoton signature. This channel is also sensitive to a large class of SUSY models. The talk presents results from searches for new physics in final states containing a single jet or a single photon and missing transverse energy studied by the ATLAS experiment at the LHC.

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