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Searches for single object and missing transverse energy 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. Asymmetric events with single object and large missing transverse energy are sensitive to Dark Matter searches and SUSY models.

We present studies done with the data collected by the ATLAS experiment at the LHC during the 2012 $\sqrt{s}=8$ TeV run.

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