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Inclusive Searches for Supersymmetry with Jets and Missing Transverse Energy with the ATLAS Detector

We report on preparations for inclusive searches for new physics, in particular supersymmetry, in events with jets and missing transverse energy, with the ATLAS detector at the LHC. We focus on the relevant performance of the ATLAS detector in measuring jets and missing energy in first collision data. We study how Standard Model backgrounds to new physics can be extracted from the data, and we take a first look at the 7 TeV data set. We investigate the sensitivity of ATLAS for supersymmetry searches in this channel for the 2010-2011 LHC run.

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