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Searches for monojet events with missing transverse momentum with the ATLAS detector

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Events composed of one high transverse energy jet and large missing transverse momentum represent one of the simplest and most striking signatures that can be observed at a hadron collider. The Standard Model contribution to such 'monojet' events is dominated by a Z decaying to a pair of neutrinos plus a recoiling jet. Several new physics models predict monojet events. They can occur via production of a jet in association with an invisible particle or via pair production of invisible particles recoiling against a hard radiative jet. The talk presents results from searches for new physics in monojet events using the full data sample recorded in 2011 at $\sqrt{s}=7$ TeV centre-of-mass energy by the ATLAS experiment at the LHC.

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