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Searching for new physics in events with an energetic jet and large missing transverse momentum with the ATLAS detector

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The search for new physics in events with an energetic jet and large missing transverse momentum in the final state plays a major role in the physics program of the ATLAS experiment. This experimental signature is sensitive to a large spectrum of beyond the Standard Model theories including the production of weakly interacting Dark Matter candidates. In this context the most updated results based on 36fb^{-1} data collected at the center of mass energy of 13 TeV with the ATLAS detector at the LHC are shown and an outlook of the future prospectives of the analysis is addressed.

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