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Performance of LHC searches with MET for models with compressed spectra

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Searches for events with Missing Transverse Energy at the LHC are among the most powerful methods for the identification of Dark Matter candidates. For this purpose, selection and kinematic cuts have often been designed assuming that the mass hierarchies between the Dark Matter candidate and strongly-interacting states of the model are large, as it is generally the case in supersymmetric scenarios. However, Dark Matter is also predicted in different model of new physics, such as Universal Extra Dimensions, where physical properties may be different: the Dark Matter candidate may have a different spin and spectra may be compressed, thus affecting the kinematic features of the signal. The performance of experimental searches in testing such different scenarios will be analysed to identify possible yet unexplored regions where signals of Dark Matter may be found.

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