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Searches for Supersymmetry with the CMS detector at the LHC

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Supersymmetry may give rise to striking events that could be discovered early in LHC running. We discuss search strategies based on the generic event signatures of high jet multiplicity and large missing transverse momentum, optionally including leptons and photons in the final state. An important aspect of such searches is the commissioning of search variables with LHC data, and demonstrating a good understanding of the detector, which is discussed in detail. Techniques for estimating the contributions from Standard Model background processes using data are presented. Finally prospects for a discovery in are reviewed.

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