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Early searches for super particles at the LHC

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We focus on the early searches for new physics at the LHC. We present a complete classification of multi-lepton signatures, that provides a framework for an exclusive multi-lepton channel search. This formed the basis for a CMS search for new physics in the Fall 2010 data. We study slepton co-NLSP and stau NLSP scenarios as examples of such multi-lepton physics. We also study the di-photon + MET signature in a Bino-like neutralino NLSP scenario. We present benchmarks, estimate the reach and set limits for different superparticles.

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