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Supersymmetry signals in Z' decays

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I discuss the feasibility to search for supersymmetry in the decays of heavy Z' bosons, predicted by GUT-inspired $U(1)'$ models, by investigating final states with charged leptons and missing energy in pp collisions at the LHC. I also investigate decays into pairs of the lightest MSSM neutralinos, which are Dark Matter candidates, and update the exclusion limits on the Z' mass, accounting for the inclusion of BSM decay modes.

Experimental Collaboration

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