## LHCP 2013 - First Large Hadron Collider Physics Conference



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## Searching for supersymmetry in Z' decays

I will discuss Z' production at the LHC in the Sequential Standard Model and in GUT-inspired U(1)' models. In particular, I will account for possible Z' decays in supersymmetric particle pairs, such as sleptons, charginos and neutralinos in the MSSM. The number of supersymmetric events in Z' decays at the LHC is estimated and the impact of the inclusion of supersymmetric decays on the current Z' mass exclusion limit is debated.

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