



Contribution ID: 151

Type: **not specified**

## Supersymmetric signals in $Z'$ decays

*Tuesday, 4 April 2017 17:20 (15 minutes)*

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.

**Primary author:** CORCELLA, Gennaro (INFN - LNF)

**Presenter:** CORCELLA, Gennaro (INFN - LNF)

**Session Classification:** WG3 Higgs and BSM Physics in Hadron Collisions

**Track Classification:** WG3) Higgs and BSM Physics in Hadron Collisions