

# 26th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY2018)



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## Dark Matter, LHC signals and muon ( $g-2$ ) in some SUSY-GUT's.

*Wednesday 25 July 2018 17:20 (20 minutes)*

We compare models with a non-universal gaugino and/or sfermion sector in different grand unification scenarios, namely SO(10), SU(5), flipped SU(5) and Pati-Salam unification. We explore the different constraints arising from LHC supersymmetry searches and dark matter experiments. We also investigate whether the models can predict a significant SUSY contribution to the muon  $g-2$ . We find that future LHC searches are able to constrain the different SUSY GUT scenarios in a complementary way with dark matter searches.

### Parallel Session

Supersymmetry: Models, Phenomenology and Experimental Results

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**Session Classification:** Supersymmetry: Models, Phenomenology and Experimental Results