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

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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