

# Phenomenology 2018 Symposium



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## Rare and Eccentric SUSY Signatures

*Tuesday 8 May 2018 18:15 (15 minutes)*

The LHC is quickly closing the naturalness window of the MSSM, current limits in parameter space are about to outpace the discovery potential of minimal SUSY models. (For example, current gluino mass bounds are close to overtaking the highest discoverable mass with 3 inverse atto-barns of data.) As such, I will enumerate and explore the models and phenomenology of still unconstrained SUSY scenarios at LHC in unconventional and extended SUSY scenarios. This will include including the identification of new production modes and interesting decay chains for a variety of standard and non-standard SUSY particles, considering various LSP and NLSP candidates. I will also present possible searches for the High Luminosity run of LHC that could increase the discovery potential of super-partners in more standard channels.

### Summary

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