

# Naturalizing SUSY with the Relaxion and the Inflaton

*Thursday, 15 February 2018 09:00 (30 minutes)*

The LHC Run II superpartner mass limits have exacerbated the tuning in supersymmetric extensions of the Standard Model. A possible way to explain this tuning is via a two-field relaxion mechanism, where the second field is identified with the inflaton. I will discuss the implications of the relaxion-inflaton dynamics for supersymmetry and inflation, as well as the prospects for detecting this new invisible sector in future experiments.

**Presenter:** GHERGHETTA, Tony (University of Minnesota)

**Session Classification:** Talks