



Naturalizing SUSY with the Relaxion

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As superpartner mass limits from the LHC Run II steadily increase, supersymmetric extensions of the Standard Model are becoming increasingly tuned. A new way to explain this tuning is with the relaxion, a scalar field whose dynamical evolution in the early universe sets the supersymmetry scale. I will discuss the implications of the relaxion mechanism for supersymmetry and inflation, as well as the challenges faced in detecting this new invisible sector in future experiments.



PHYSICS