The XXVIII International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2021)



Contribution ID: 8

Type: not specified

Natural SUSY emergent from the landscape

Monday, 23 August 2021 10:35 (20 minutes)

We explain how the landscape can make predictions for Higgs and sparticle masses. A power-law draw to large soft terms coupled with the ABDS anthropic condition that he derived weak scale be within a factor of a few of our measured value leads to m(h)¹²⁵ GeV with sparticles above present LHC limits. The spectra that emerges is that of radiatively driven natural SUSY. We show why such natural models are much more likely from the landscape than finetuned SUSY models.

Primary author: BAER, Howard (University of Oklahoma)

Presenter: BAER, Howard (University of Oklahoma)

Session Classification: Supersymmetry: Models, Phenomenology and Experimental Results

Track Classification: Supersymmetry: Models, Phenomenology and Experimental Results