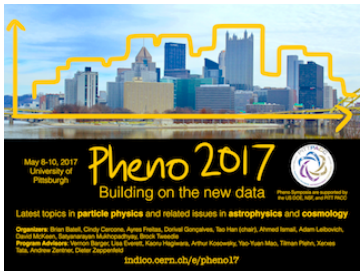

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Little Hierarchy in the minimally specified MSSM

Tuesday 9 May 2017 18:15 (15 minutes)

The prospect of heavy super-partners in the MSSM is often met with criticism on the grounds of naturalness arguments. We present a recently proposed methodology for studying the little hierarchy problem that can lead to contrasting conclusions. This approach focuses on hierarchies between the EW and SUSY scales that can be achieved without specifying model parameters beyond one significant digit in a way that automatically eliminates scenarios with accidentally large outcomes. Applying this methodology to constrained versions of the minimal supersymmetric standard model, we show the maximal hierarchies that can be achieved range from one to three orders of magnitude depending on the complexity of the model.

Summary

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