Phenomenology 2016 Symposium



Contribution ID: 48 Type: parallel talk

Split Coupling SUSY

Tuesday 10 May 2016 17:45 (15 minutes)

Realizing that couplings related by supersymmetry (SUSY) can be disentangled when SUSY is broken, it is suggested that unwanted flavor and CP violating SUSY couplings may be suppressed via quenched gaugino-flavor interactions, which may be accomplished by power-law running of sfermion anomalous dimensions. A simple theoretical framework to accomplish this is exemplified and the defeated constraints are tallied. One key implication of the scenario is the expectation of enhanced top, bottom and tau production at the LHC, accompanied by large missing energy. Also, direct detection signals of dark matter may be more challenging to find than in conventional SUSY scenarios.

Summary

 $\textbf{Author:} \quad \text{Dr ZHAO, Yue (University of Michigan)}$

Presenter: Dr ZHAO, Yue (University of Michigan)

Session Classification: SUSY III