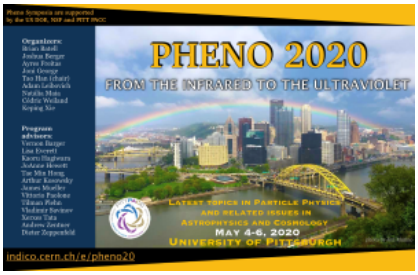

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One Model Fits All: A Minimal R-parity Violating Supersymmetric Model for the Flavor Anomalies, Muon g-2 and ANITA

Tuesday 5 May 2020 17:45 (15 minutes)

We show that both ⌧⌧(⇤) and ⌧⌧(⇤) flavor anomalies can be addressed in a minimal ⌧-parity violating supersymmetric scenario, motivated by Higgs naturalness that requires relatively light third-generation sfermions. Interestingly, this scenario may also be able to accommodate two other seemingly disparate anomalies, namely, muon (⌧–2) and anomalous upgoing ultra-high energy cosmic ray air showers at ANITA. We find it remarkable that there exists overlap regions in the minimal model parameter space where all (or some) of these anomalies can be simultaneously explained, while satisfying a plethora of precision low-energy and high-energy experimental constraints. We will discuss some testable predictions of the model.

Summary

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