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The Hybrid Suerpsymmetry Breakings and Hybrid Mediations

In the Supersymmetric Standard Models (SSMs), supersymmetry can be broken via the F-term and/or D-term, and there are three major mediation mechanisms for supersymmetry breaking: gravity mediation, gauge mediation, and anomaly mediation. We will study the scenarios
with hybrid supersymmetry breakings and hybrid mediations. In particular, such kind of scenarios might solve the problems and keep the merits for the simple supersymmetry
breaking and mediation. Moreover, we shall explore the natural SSMs, which can escape the LHC supersymmetry search constraints, explain the muon anomalous magnetic moment, and satisfy all the other current experimental bounds.

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