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Weighing the Gluino

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If Supersymmetry (SUSY) is discovered at the LHC, it will be important to measure the masses and couplings as accurately as possible. Determining the precision with which the LHC can perform these measurements is important for understanding the road ahead, particularly in terms of complementarity between proposed colliders. We investigate the precision with which the gluino mass can be measured, in the context of radiative natural SUSY, using techniques of varying sophistication and robustness. As we are examining the gluino, our results have important implications for testing unification in the event of a SUSY discovery.

Summary

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