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LHC constraints on SUSY with a light gravitino

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The lack of positive signals from supersymmetry searches at the LHC has pushed most of supersymmetric particles to very heavy masses. The notable exception is the electroweak sector of the MSSM which, due to their mixings and complex parameter structure, could still survive at fairly low masses. In this talk I will present a global study of the electroweak minimal supersymmetry extension of the Standard Model in the presence of a light gravitino. The results show that the combination of recent supersymmetry searches at the LHC and Standard Model inclusive cross section measurements strongly constrains the model at low masses, except for a light Higgsino scenario that can simultaneosly fit various minor excesses in LHC searches.

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