SUSY24: The 31st International Conference on Supersymmetry and Unification of Fundamental Interactions



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New GAMBIT fits of the MSSM electroweakino sector

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In this talk I will present results from two new GAMBIT studies of LHC searches for supersymmetry, the largest such GAMBIT studies to date. We focus on LHC searches for charginos and neutralinos, and consider both scenarios with and without a gravitino as the lightest supersymmetric particle. By running full event simulations at each sampled MSSM parameter point, we carry out detailed and computationally expensive fits that combine 40 different ATLAS and CMS searches. Our results provide a global picture of the impact current LHC results have on the space of non-simplified scenarios with light neutralinos and charginos.

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