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## Global LHC constraints on electroweakinos with SModelS v2.3

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The lack of experimental evidence for new physics in the LHC data puts stringent constraints on supersymmetric theories. However, supersymmetric particles at the LHC are searched for in a channel-by-channel fashion, in specific final states, and the results are typically presented in the context of simplified models. It is therefore important to attempt at a more global reinterpretation of the results of these searches in the context of realistic theoretical scenarios. The SModelS tool allows for a fast reinterpretation of LHC searches for new physics on the basis of simplified model results. So far, such reinterpretation has also mostly been conducted in a channel-by-channel approach, considering the results from each experimental search separately. In this presentation, we go a step further and discuss how combining LHC search allows us to formulate a global likelihood which results in better and statistically more robust constraints on the tested models. We further focus on the electroweakino sector of the MSSM, for which we derive global constraints based on the ~15 publicly available and reusable ATLAS and CMS searches for signals in this sector through the SModelS package.

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