

## Tools for SUSY and new physics at the LHC

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The era of the LHC has completely changed the landscape for Beyond the Standard Model theories. Firstly, the discovery of the Higgs Boson along with precision mass and coupling measurements severely constrain models. Secondly, the null results from the huge number of experimental searches now place strict bounds on new states at the TeV scale.

In order to make sense of the wealth of new results, a multitude of tools have been developed to automatically test the huge number of theories that exist. In addition, if new physics begins to appear in the forthcoming 13 TeV LHC run, the programs will help us determine which model best describes the data. In this talk I will review many of the current tools, explain which approaches are best for different scenarios and offer a view about how they may be improved in the future.

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