

Event transformation for fast model determination

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There are now a number of tools on the market that allow models of new physics to be tested against the latest LHC data. These tools fall into two categories, those that perform full event simulation and those that make use of simplified models. The full event simulation tools have the drawback that they require significant computing power while simplified models are sometimes inaccurate when faced with unfamiliar models or decay chains. We propose a new technique of event transformation that promises the accuracy and generality of full event generation with the speed (or even faster) of simplified models.

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