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Shower Reweighting in Herwig 7

In the computation of shower uncertainties, re-running a full Monte Carlo simulation for each set of input scales is very CPU intensive. The major experimental collaborations are therefore very interested in in-event scale variation. I will present a development of the veto algorithm to perform on-the-fly reweighting in the parton shower and review the progress of its implementation in Herwig 7. I will compare the results from scale variations in the parton showers obtained using the new reweighting method and the traditional full event generation approach.

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