

SHERPA: where we are and what's next

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In this status report on the multi-purpose Monte-Carlo event generator Sherpa I review recent and ongoing Sherpa studies, as well as the latest developments of its fixed-order and all-order technologies. Fixed-order improvements I discuss include fully automated EW corrections and support for additional loop-induced processes. On the all-order side I cover Sherpa's parton showers and the recent work on including NLO splitting kernels, studying the accuracy of the showers and their on-the-fly reweighting in state-of-the-art simulations.

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