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NLO QCD and EW calculations with Recola and Sherpa

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Precision in Monte Carlo predictions is becoming increasingly important as experiments continually improve. One key way this is achieved in Monte Carlo event simulations is to include the higher-order effects from perturbation theory in the matrix element calculation. This has been completed at NLO QCD, and progress is already being made into NNLO QCD automation. At this level of precision, NLO EW effects also become significant, and I will talk about the inclusion of NLO EW effects to the matrix element with the SHERPA event generator.

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