

Contribution ID: 648 Contribution code: contribution ID 648

Type: Oral

Elimination of Negative Event Weights in Monte Carlo Samples

Wednesday, 1 December 2021 17:40 (20 minutes)

We propose a novel method for the elimination of negative Monte Carlo event weights. The method is process-agnostic, independent of any analysis, and preserves all physical observables. We demonstrate the overall performance and systematic improvement with increasing event sample size, based on predictions for the production of a W boson with two jets calculated at next-to-leading order perturbation theory.

Significance

References

https://inspirehep.net/literature/1796944

Speaker time zone

Compatible with Europe

Primary authors: Dr MAIER, Andreas (DESY); ANDERSEN, Jeppe Rosenkrantz (IPPP, University of Durham)

Presenter: Dr MAIER, Andreas (DESY)

Session Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods

Track Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods