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Optimising loop amplitude evaluations

Tuesday 14 November 2023 12:00 (30 minutes)

I will discuss some of the current challenges for the evaluation of multi-loop amplitudes. Neural networks have had some success for the evaluation of tree-level and one-loop amplitudes that may also be useful in the context of higher order computations. I will show some simple applications to simulations of processes with no born level contributions, gg->di-photon+gluons, and discuss potential improvements

Presenter: BADGER, Simon David (Universita e INFN Torino (IT))

Session Classification: LO & NLO issues