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Integrations with a neural network

Thursday 27 October 2022 15:30 (20 minutes)

In this presentation I will show how one can perform parametric integrations using a neural network. This could be applied for example to perform the integration over the auxiliary parameters in the integrals that result from the sector decomposition of multi-loop integrals.

Significance

This method would allow for a much faster evaluation of parametric integrals (at the cost of precison)

References

Experiment context, if any

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