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Status of electroweak computations wrt numerical treatment of Feynman integrals

Friday 8 October 2021 10:45 (15 minutes)

We are working on a computational set up to perform electroweak corrections at the three-loop level. The goal is to cover the computation of three-loop corrections contributing to the pseudo observables which are well defined at the Z-boson resonance.

We would like to present the actual blueprint for the numerical evaluation of Feynman integrals and we are confident, that these ideas can be transferred to other projects dealing with radiative corrections.

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