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## Analytic computation of multi-loop Feynman integrals for higher-order QCD corrections

*Tuesday 13 December 2022 11:00 (25 minutes)*

In this talk, I will discuss the technical challenges in analytic computations of multi-loop integrals that appear in higher-order perturbative computations. I will explain the techniques for computing integrals with massive internal propagators needed for two-loop QCD corrections for Higgs decays and NNLO QCD corrections for  $t\bar{t}j$  production. The inclusion of massive internal propagators often lead to a more complicated class of function space, which will be another highlight of my talk.

### Session

Heavy Ions and QCD

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