

Two-loop virtual contributions to $qq \rightarrow t\bar{t}H$ production, numerically

Tuesday 8 October 2024 14:30 (30 minutes)

I'd like to present the numerical calculation of the N_f -part of the 2-loop 5-point massive virtual amplitudes for $qq \rightarrow t\bar{t}H$ production based on arXiv:2402.03301, describing the methods (i.e. sector decomposition), the tools (pySecDec and Ratracer), and the outlook for the remaining work.

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Session Classification: Perturbative and resummed predictions in QCD