

Local cancellation of IR singularities: an automated algorithm based on OpenLoops+LTD

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We elaborate on the construction of a new automated NLO generator developed within the OpenLoops framework. This new algorithm employs the Loop Tree Duality (LTD) method to achieve the local cancellation of IR singularities by directly combining virtual and real corrections at the integrand level. In this talk we focus on a novel technique that enables local IR cancellations in a general and automated way, and present first numerical results.

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