

Progress towards numerical two-loop integrand reduction

Friday 29 August 2025 10:00 (40 minutes)

We present a method for the integrand-level reduction of two-loop helicity amplitudes in both $d=4-2\epsilon$ and $d=4$ dimensions. The amplitude is expressed in terms of a set of Feynman integrals and their coefficients that depend on the external kinematics. The method presented in this talk, in conjunction with the ongoing development of the computational framework HELAC-2LOOP, paves the road for the construction of an automated program for numerical two-loop amplitude calculations.

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