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Numerical evaluation of QCD one-loop amplitudes

We present the publicly available program NGLUON allowing the numerical evaluation of colour-ordered amplitudes at one-loop order in massless QCD. The current version for an arbitrary number of external gluons is extended to an arbitrary number of quark flavours. Besides numerical stability and performance issues, we discuss the reconstruction of the full QCD amplitudes from color-ordered building blocks for up to six partons. First phenomenological issues with regard to the LHC are discussed.

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