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All-plus helicity off-shell gauge invariant multigluon amplitudes at one loop

Friday 30 July 2021 11:00 (15 minutes)

We calculate one loop scattering amplitudes for arbitrary number of positive helicity on-shell gluons and one off-shell gluon treated within the quasi-multi Regge kinematics. The result is fully gauge invariant and possesses the correct on-shell limit. Our method is based on embedding the off-shell process, together with contributions needed to retain gauge invariance, in a bigger fully on-shell process with auxiliary quark or gluon line.

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Collaboration / Activity

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