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Renormalization of nonlocal gluon operators in lattice perturbation theory

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In this study, we investigate renormalization of gauge-invariant nonlocal gluon operators up to one-loop in lattice perturbation theory. Our computations have been performed in both Dimensional and lattice regularizations, using the Symanzik improved gluon action, leading to the renormalization functions in the modified Minimal Subtraction (\overline{MS}) scheme, as well as conversion factors from the modified regularization invariant (RI') scheme to the \overline{MS} scheme.

Topical area

Structure of Hadrons and Nuclei

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