

Lattice realization of ξ gauge

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We perform a lattice implement of ξ gauge, a more general covariant gauge. We will present the performance of our lattice realization in ξ gauge and primary results of gluon propagators and dynamical overlap quark propagators with $\xi \in [0, 0.2]$. We calculate several renormalization constants under ξ gauge configurations and discuss the gauge invariance under the MS-bar scheme through RI/MOM scheme (perturbative region). We hope this implement provides a new choice to check gauge dependency in numerical calculation.

Presenter: 施, 春江

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