

## Dependency of Local Operators on Gauge Fixing Precision in Lattice QCD

For gauge-dependent operators, achieving high-precision gauge fixing is crucial. However, due to the limitations of computers, achieving perfect precision is impossible. In this study, we selected several local operators and computed them at different gauge fixing precisions across various lattice spacings and fermion actions to assess the extent of this dependency. Finally, we applied an empirical formula to fit the data, allowing for the estimation of the systematic error.

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