

XVth Quark Confinement and the Hadron Spectrum



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The effect of Gribov copies on the quark propagator

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We study the impact of Gribov copies on the quark propagator in lattice 2-colour QCD. We find that the Gribov noise is comparable to the gauge noise for smaller volumes but becomes less significant for larger spatial volumes. The Gribov noise in the quark propagator is found to be comparable to, but smaller than in the gluon propagator on the same ensembles. No correlation is found between the values of either of the quark propagator form factors and the value of the gauge fixing functional, nor between the two form factors.

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