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Further Study of BRST-Symmetry Breaking on the Lattice

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We evaluate the so-called Bose-ghost propagator in minimal Landau gauge, for the SU(2) case in four dimensions. We consider lattice volumes up to 120^4 and physical lattice extents up to 13.5 fm. We investigate discretization effects, as well as the infinite-volume and continuum limits. A nonzero value for this quantity provides direct evidence of BRST-symmetry breaking, related to the restriction of the functional measure to the first Gribov region.

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