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Deconfinement in pure gauge SU(3) Yang-Mills theory: the ghost propagator

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The ghost propagator in Landau gauge is studied at finite temperature below and above T_c using lattice QCD simulations. For high temperatures, we find that the ghost propagator is enhanced, compared to the confined phase. The results suggest that the ghost propagator can be used to identify the phase transition, similarly to the gluon propagator case.

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