## The complex structure of strong interactions in Euclidean and Minkowski space

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## The full QCD gluon and ghost propagators and the transition to the deconfinement regime

Tuesday 27 May 2025 16:00 (1 hour)

The gluon and ghost propagators are computed in full QCD using non-perturbative order-a improved Clover fermions above and below the deconfinement temperature. Our simulations employ a setup that yields a pion mass of 290MeV at T=0. Defining a gluon mass m\_g from the inverse of the gluon propagator *at zero momenta, we show that both the electric and magnetic masses have a smooth behaviour with T and above T\_c. In particular,* they are compatible with the predictions of thermal perturbation theory based on the hard thermal loop expansion.

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