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The phase diagram of effective theories for the QCD center degrees of freedom

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We study effective theories for QCD at non-zero temperature and finite chemical potential, using local Polyakov loops as the degrees of freedom. The sign problem is solved by exactly mapping the partition sum to a sum over flux variables with only real and positive weights, and the theory is then accessible to Monte Carlo Techniques. We determine the phase diagram as a function of the temperature and the chemical potential.

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