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Complex Langevin in Lattice QCD: dynamic stabilisation and the phase diagram

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Complex Langevin simulations provide an alternative to sample path integrals with complex weights and therefore are suited to determine the phase diagram of QCD from first principles. We use our proposed method of Dynamic Stabilisation (DS) to ensure improved convergence to the right limit and present new systematic tests of this technique. We also show results on QCD in the limit of heavy quarks and preliminary results with fully dynamical staggered quarks.

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