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Complex Langevin for Lattice QCD at $T = 0$ and $\mu \geq 0$.

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We simulate Lattice QCD with 2 light quark flavours at zero temperature and finite quark number chemical potential μ . Gauge cooling is applied, along with adaptive rescaling of the updating ‘time’ increment, to stabilize the algorithm. We see evidence for the expected transition at $\mu \approx m_N/3$ and for saturation at large μ . Limitations of the method are discussed.

Author: Dr SINCLAIR, Donald (Argonne-Seville)

Co-author: Dr KOGUT, John (University of Maryland/DOE)

Presenter: Dr SINCLAIR, Donald (Argonne-Seville)

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