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Hamiltonian Flow in Coulomb Gauge Yang-Mills theory

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We derive a new Hamiltonian renormalisation group flow equation for Yang-Mills theory in Coulomb gauge. The flow equations for the static gluon and ghost propagators are solved numerically under the assumption of a bare ghost gluon vertex. The resulting propagators are compared with lattice data and results obtained from the Dyson-Schwinger equations following from a variational solution of the Yang-Mills Schrödinger equation.

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talk

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