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Dyson–Schwinger Equations of Hamiltonian Quantum Chromodynamics

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The general method for treating non-Gaussian wave functionals in the Hamiltonian formulation of a quantum field theory, which was previously proposed and developed for Yang-Mills theory in Coulomb gauge, is generalized to full QCD. Exploiting Dyson-Schwinger equation techniques, we express the various n-point functions, needed in expectation values of observables like the Hamiltonian, in terms of the variational kernels of our trial ansatz. Finally the equations of motion for these variational kernels are derived by minimizing the energy density.

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