Contribution ID: **112**   Type: **not specified**

Dyson-Schwinger approach to Hamiltonian QCD

Monday, 29 August 2016 19:10 (20 minutes)

Dyson-Schwinger equations are an established, powerful non-perturbative tool for QCD. In the Hamiltonian formulation of a quantum field theory they can be used to perform variational calculations with wave functionals going beyond the Gaussian approximation. The various n-point functions, needed in expectation values of observables like the Hamilton operator, can be thus expressed 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.

Summary

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Session Classification: Section A

Track Classification: Section A: Vacuum Structure and Confinement