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Calculation of masses and amplitudes of pseudoscalar mesons

Tuesday 15 November 2022 16:30 (2 hours)

From Quantum Field Theory (QFT) for non-perturbative systems, the Schiwnger-Dyson equations (SDE) are obtained, which are analogous to the Euler-Lagrange equations in QFT, since they are the equations of motion of the Green's functions . The SDEs are an infinite set of integral equations coupled to each other and it is only possible to solve them by means of a truncation scheme. The Bethe-Salpeter equations (BSE) have as a solution the wave function of the states bound to a system of two particles. The BSEs are obtained from a covariant relativistic formalism. We solve abelian models for quantum chromodynamics (QCD) at low energies, which rules allow us to obtain the spectrum of pseudoscalar mesons Jp =0- and the decay constants.

Poster fallback option for rejected abstracts for parallel oral presentations

Yes

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