

SEMINARIO

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QCD lagrangian in the Coulomb gauge representation and its $SO(4)(2+1)$ symmetry: low energy meson states

Abstract: The $SO(4)$ symmetry of a sector of the QCD Hamiltonian is explored, adding to $(2+1)$ flavor degrees of freedom. In spite of the complexity of the QCD spectrum at low energy, the treatment of the QCD Hamiltonian in the $SO(4)$ representation, including ground state correlations by means of the Random Phase Approximation, allow us to identify states which may be associated to physical pseudo-scalar and vector mesons, like η , η' , K , ρ , ω , φ , as well as the pion (π).

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