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Vacuum Phenomenology of the J^PC=3−− mesons

Wednesday, 15 September 2021 13:55 (5 minutes)

We study the strong and radiative decays of the antiquark-quark ground state nonet{ρ3(1690),K⊠3(1780),ϕ3(1850),ω3(1670)} in the framework of an effective quantum field theory approach, based on the SUV(3) flavor symmetry. The effective model is fitted
to experimental data listed by the Particle Data Group . We predict numerous experimentally unknown decay widths and branching ratios. An overall agreement of theory (fit and predictions) with experimental data confirms the qq^{--} nature of the states and qualitatively validates the effective approach.

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Session Classification: Poster Session