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Monte Carlo simulation of Tetraquark and Meson mixing in a dynamical model of strong interaction

Abstract content

We study the formation of a tetraquark state (q-q-qbar-qbar) from the presence or two initially uncorrelated q-qbar states, using a MC simulation based on a QCD-inspired model (String-Flip). Incorporating an effective many-body potential between particles, in which we consider a difference between a molecular meson state and a tetraquark, we exhibit preliminary results of the characterization of single properties of these states and modification upon the mixing.

Summary

Primary author(s) : Mr. TOLEDANO, Ivan (Instituto de Física, UNAM)

Presenter(s) : Mr. TOLEDANO, Ivan (Instituto de Física, UNAM)