

Study of the tetraquark states

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In the present work, we use the coupled channel formalism to investigate the mass spectrum of the tetraquark states. Starting from the local hidden gauge symmetry and considering the t- and u-channels, the two-body interaction potentials are evaluated, and then, the scattering amplitude is calculated with the coupled channel Bethe-Salpeter equation, where one can look for the resonance pole in the second Riemann sheet. In the heavy sector with strangeness, some results for the molecular states are shown.

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