

## Study of multi-quark states with strangeness

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Based on the recent findings of the pentaquark states and tetraquark states in the experiments, we exploit the coupled channel formalism to investigate the mass spectrum of these multi-quark states. In our results, we explain the molecular nature for the  $P_c$  and  $P_{cs}$  states within the coupled channel interactions. Furthermore, we extrapolate our study to the meson systems with the strangeness, where we find some different dynamics in the strangeness sector.

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