

Heavy mesons in the quark model

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Collaboration

Abstract content

Since the discovery of the J/Ψ the quark model was very successful describing the spectrum and properties of heavy mesons including only $q\bar{q}$ components. However since 2003, with the discovery of the $X(3872)$, many states that can not be accommodated on the naive quark model have been discovered, and they made unavoidable to include higher Fock components on the heavy meson states. We will give an overview of the success of the quark model for heavy mesons and point some of the states that are likely to be more complicated structures such as meson-meson molecules.

Primary author(s) : RODRIGUEZ ENTEM, David (University of Salamanca)

Presenter(s) : RODRIGUEZ ENTEM, David (University of Salamanca)

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