

Chiral extrapolation of the X(3872) binding energy

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The role of pion dynamics in the X(3872) charmonium-like state is studied in the framework of a renormalisable effective quantum field theory approach and they are found to play a substantial role in the formation of the X. Chiral extrapolation from the physical point to unphysically large pion masses is performed and the results are confronted with the lattice predictions. The proposed approach overrides the gap between the lattice calculations and the physical limit in m_π .

Presentation type

Section talk (10+5 min)

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