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Dipion transitions between heavy hybrids and heavy quarkonium excitations

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We present results for dipion transitions between heavy quarkonium states of large principal quantum number for which the multipole expansion does not hold. We combine the QCD effective string theory with the Chiral Lagrangian in order to get the appropriate vertexes.

We extend the results to transitions for which the initial state is a heavy quarkonium hybrid. We observe that the dipion spectrum is qualitatively different if the initial state is a hybrid or a quarkonium.

session

F. Heavy Flavor and Quarkonia

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