2019 Meeting of the Division of Particles & Fields of the American Physical Society



Contribution ID: 435

Type: Oral Presentation

Revisiting XEFT for the study of X(3872)

Wednesday, 31 July 2019 17:00 (20 minutes)

We revisit the non-relativistic effective field theory called XEFT that is specifically designed for the description of X(3872) which is one of the most interesting candidates for hadronic molecules. In the framework XEFT, X(3872) is described as a bound state of two D mesons. Two new interaction terms consistent with general power counting rules are introduced to study the interaction of these D mesons. We investigate the effects of these new terms by explicitly calculating the decay rate of X(3872) up to next to leading order.

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Session Classification: Quark & Lepton Flavor

Track Classification: Quark & Lepton Flavor