

Semi-inclusive decay of heavy quarkonium hybrids into quarkonium in the EFT framework

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In order to understand the nature of the XYZ particles, theoretical predictions of the various decay modes of the XYZ measured by experiments are essential.

In this work, we focus on the decay of heavy quarkonium hybrids. We study semi-inclusive decays of heavy quarkonium hybrids into traditional quarkonium in the EFT framework.

We found that our numerical results of the decay rates are different from previous studies. We also develop a calculation framework in which the theoretical uncertainty can be systematically improved.

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