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Inclusive decays of Heavy Quark Hybrids

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In order to understand the nature of the XYZ particles, theoretical predictions of the various XYZ decay modes are essential. In this work, we focus on the semi-inclusive decay of heavy quarkonium hybrids into traditional quarkonium in the Born Oppenheimer EFT (BOEFT) framework. We present results of the decay rates for several heavy quark hybrids. We also develop a systematic framework in which the theoretical uncertainty can be systematically improved.

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