

Phenomenology 2018 Symposium



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Lightcone resummation in $H \rightarrow J/\Psi + \gamma$ to $O(v^4)$

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Higgs exclusive decay to a J/Ψ plus a photon is a clean channel to probe the Higgs-charm coupling. In this process, large logarithms $\log(m_c/m_H)$ are resummed using the evolution of the lightcone distribution amplitude (LCDA), which in turn is matched to the long-distance matrix elements in NRQCD at the scale m_c . We will demonstrate the matching to $O(v^4)$ and its phenomenological implications.

Summary

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