

Questions for discussion

Consider: Why do we not see $J/\psi \rightarrow gg$?

Consider: Show in the top quark width $\Gamma(t \rightarrow bW)$, dropping m_b loses terms of $\mathcal{O}(m_b^2/m_t^2) \sim 1\%$.

Consider: Why do we vary scales to estimate higher order corrections?

Consider: Are there other (perhaps kinematic) ratios of scales that arise that lead to logarithms that need to be resummed?

Consider: How are heavy-quark jets not like light-quark jets?