

Fitting and scale uncertainty analysis of the NRQCD long-distance matrix elements in inclusive χ_c states production from B meson decays.

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Charmonium production has been modeled using NRQCD factorization. It is necessary to test the theoretical precision of the factorization formula along with the estimation of the short-distance dynamics through the fitting with the experimental data. The present talk presents a brief review of the literature's theoretical predictions of charmonium production applied to the decay mode $B \rightarrow H(c\bar{c})X$ and shows the fitting of the long-distance matrix elements with experimental data considering simultaneously an approach to estimate the theoretical uncertainties thought varying the NRQCD and QCD renormalization scales.

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