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Quarkonium decay to Light Hadrons

Content :

The Light hadronic decays of mesons ($Q\bar{Q}$) are studied in the NRQCD formalism in terms of their short distance and long distance coefficients. The long distance coefficients are obtained through phenomenological potential model description of the mesons. The digamma and dileptonic decays of quarkonia are investigated using some of the known potential models by incorporating radiative corrections up to the lowest order. By incorporating the relativistic corrections of order (v^4) to the heavy quarkonium decays into light hadrons, two photons, the vector state into lepton pairs and S-wave production are computed within the NRQCD formalism.

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