

Pionic couplings \hat{g} and \tilde{g} in the static limit

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Abstract: The couplings between the soft pion and a doublet of heavy-light mesons are basic parameters of the ChPT approach to the heavy-light systems. We compute the unquenched ($n_F = 2$) values for two such couplings in the static heavy quark limit: (1) \hat{g} , coupling to the lowest doublet of heavy-light mesons, and (2) \tilde{g} , coupling to the first orbital excitations. We compare our estimates with those obtained previously by using non-lattice approaches, and discuss the impact of our results to the present understanding of the spectrum of heavy-light mesons.