

New long distance contribution to semileptonic decays of heavy mesons

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Abstract

We have computed for the first time a purely long distance contribution to $M^{\pm} \rightarrow P^{\pm} \ell^+ \ell^-$ ($P = \pi, K$) charged heavy meson ($M = B, D$) decays. This novel contribution is relevant for energies well below the J/ψ resonance and -depending on the channel- can have important effects both in the branching ratio and in new CP asymmetries due to the different strong and weak phases of the short- and long-distance contributions.

Title

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