

Hierarchy of lifetimes of charmed and beautiful hadrons.

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AbstractAbstract

[en] Pre-asymptotic corrections to total hadronic widths of weak decays of charmed and beautiful hadrons are considered. The main emphasis is put on effects due to the spectator quark. The so called hybrid logarithms emerging from the domain of momenta $R^{-2} < \text{or approx. } p^2 < \text{or approx. } m_Q^2$ (R is the hadronic size, m_Q is the heavy quark mass) are taken into account, a new element of the analysis. For charmed hadrons the pre-asymptotic corrections are of order unity, and the corresponding estimates of non leptonic widths are of semiquantitative character. The hierarchy of hadronic widths for D , F mesons and c , $c^{(A)}$, c baryons is establish. The lifetime of c^0 turns out to be the smallest. The difference in lifetimes of beautiful hadrons is predicted to be definitely less than a few percent

Primary Subject

[PHYSICS OF ELEMENTARY PARTICLES AND FIELDS \(A2110\)](#)

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1986; 30 p; 19 refs.; 6 figs.

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