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Isospin Breaking in the Decay Constants of Heavy-Light D and B Mesons

We propose a new method for calculating the dependences of the decay constants of heavy-light mesons on the light-quark mass m based on QCD sum rules at infinitely large Borel mass parameter. For an appropriate choice of the correlation functions, all condensate contributions vanish and the m -dependence of the decay constants is shown to be mainly determined by the known analytic m -dependence of the diagrams of perturbative QCD.

The results for strong isospin breaking in the decay constants of heavy pseudoscalar and vector mesons are reported.

Experimental Collaboration

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