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HQET parameters at the $1/m$ order with $n_f=2$ flavors of dynamical quarks

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We present our computation of the HQET Lagrangian parameters and those of the time component of the heavy-light axial current, including $1/m$ corrections.

They are obtained by matching non-perturbatively (in a small volume) HQET to QCD, with $n_f=2$ flavors of dynamical quarks, and with quark masses going from the charm to beauty.

These parameters can be used to compute the b-quark mass and the heavy-light decay constant in HQET including $1/m$ corrections.

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talk

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