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A massive nonperturbative renormalisation scheme for heavy quark observables

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Heavy quark observables on the lattice commonly suffer from (am_q) -sized discretisation errors, which affects their extrapolation to the continuum. We present results from a first numerical implementation of a massive NPR scheme, RI/mSMOM, with the aim of absorbing cutoff effects. In particular, we compute renormalisation constants for fermion bilinears at non-vanishing heavy quark masses and compare the approach to the continuum of the renormalised charm quark mass with that from a mass-independent scheme.

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