

An Improved Action for Heavy Quarks

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Abstract: We extend the Fermilab method for heavy quarks to include all interactions of dimension six in the action. We discuss a subtlety in the power counting, which implies that, for heavy quarks, some interactions of dimension seven are commensurate with those of dimension six. We then present tree-level matching conditions, obtained from calculating the Compton scattering amplitude for (lattice) QCD.