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Non-perturbative renormalization of the static quark theory in a large volume

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We report on progress to renormalize non-perturbatively the static heavy quark theory on the lattice. In particular, we present first results for position-space renormalization scheme for heavy-light bilinears. We test our approach on RBC's $16^3 \times 32$ lattice ensemble with pion mass of 420 MeV, Iwasaki gauge action and domain wall light fermions.

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