

# Quark masses and low energy constants on HISQ ensembles

We present the physical quark masses and low energy constants using gauge ensembles with 2+1+1 flavors Highly Improved Staggered Quark, using the clover valence fermion. The bare strange-quark mass is fixed from the  $\eta$ s mass, and the bare charm-quark mass is obtained from the Ds meson mass.

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