

Matching of $N_f=2+1$ CLS ensembles to a tmQCD valence sector

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We will present a detailed description of the matching of a valence $N_f=2+1+1$ fully-twisted tmQCD action with an $N_f=2+1$, non-perturbatively $O(a)$ -improved Wilson sea. Extensive preliminary results for meson and quark masses, as well as for pseudoscalar decay constants, are available for several CLS ensembles. A comparison of the scaling behaviour of the two actions in the light and strange quark sectors, as well as various crosschecks of the solidity of the approach, will be presented.

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