

First results for charm physics with a tmQCD valence action

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We present first preliminary results for masses and decay constants of charmed mesons using a valence $N_f=2+1+1$ fully-twisted tmQCD action combined with an $N_f=2+1$ non-perturbatively $O(a)$ -improved Wilson sea sector. The impact of various techniques to reduce noise and improve spectroscopic resolution is presented, and the scaling of basic observables towards the continuum limit explored in a subset of CLS ensembles.

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