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Light quark masses from a mixed action with Wilson twisted mass valence quarks

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We report on the determination of light quark masses with three sea-quark flavours based on a mixed action with maximally twisted valence fermions on CLS ensembles with O(a)-improved Wilson sea quarks. The renormalisation and the renormalisation group running over a wide range of scales are based on existing non-perturbative computations in the Schrodinger functional scheme. The determinations of the light (u,d) and strange quark masses are based on a combination of the results from the unitary Wilson action with those from the mixed action.

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