

Meson masses and non-perturbative renormalisation in 2+1 flavour QCD from QCDOC

Presenter: Robert Tweedie (University of Edinburgh)

D.J. Antonio, P.A. Boyle, J. Noaki and R.J. Tweedie

Abstract: I present results for the meson masses, quark masses and some non-perturbative renormalisation in 2+1 flavour domain wall QCD. The ensembles used were generated with the Iwasaki gauge action and have volumes of $16^3 \times 32$ and $24^3 \times 64$ with a fifth dimension size of either 8 or 16. These ensembles have u and d masses as low as one quarter of the strange quark mass. All data were generated jointly by the UKQCD and RBC collaborations on the QCDOC machines.