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RG-running of the tensor currents for ⬚⬚= 3 QCD in a ⬚SF setup

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We perform the complete non-perturbative running of the flavour non-singlet tensor operator from hadronic to electroweak scales in Nf = 3 massless QCD, comparing four different definitions of the renormalisation constant. We use the same configuration ensembles of arXiv:1802.05243, subject to Schrödinger Functional (SF) boundary conditions, whereas we use valence quarks with (⬚SF) boundary conditions, which results in O(a) improvement for observables after tuning of boundary counterterms. Following the recent ALPHA strategy, we exploit two different running couplings: at high energies (mu > ~ 2GeV) we use a SF-type coupling, while at low energies (mu < ~2GeV) a Gradient Flow (GF)-type coupling.

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