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Properties of the η and η' mesons Part II: Gluonic matrix elements

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We present results of gluonic and pseudoscalar matrix elements of the η and η' mesons at the physical quark mass point, in the continuum limit. The simulations are carried out on $n_f = 2 + 1$ CLS ensembles, with non-perturbatively improved Wilson fermions. We discuss the renormalization of these quantities and check the consistency with the singlet and non-singlet axial Ward identities. Our results are well described in terms of Large-N_c ChPT at NLO. We comment on phenomenological applications.

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