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Neutral Kaon mixing beyond the Standard Model

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We compute the hadronic matrix elements of the four-quark operators needed for the study of $K^0 - \bar{K}^0$ mixing beyond the Standard Model (SM). We have used $n_f = 2 + 1$ flavours of domain wall fermion (DWF) at two values of the lattice spacing ($a \approx 0.08$ and $a \approx 0.11$ fm) and with lightest unitary Pion mass of ≈ 300 MeV. Renormalisation is performed non-perturbatively and the impact of several different intermediate momentum schemes is investigated.

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