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Correlation functions with Karsten-Wilczek fermions

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The explicit breaking of time-reflection symmetry in the Karsten-Wilczek action is hidden in various mesonic correlation functions that are calculated in the quenched approximation. Two underlying discrete product symmetries are discussed, which each allow for enforcement of time-reflection symmetry for correlation functions constructed according to additional symmetry requirements.

An additional non-perturbative tuning condition for the relevant fermionic counterterm is demonstrated and a comparison between two independent non-perturbative conditions with boosted perturbation theory is presented.

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