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Worldvolume Hybrid Monte Carlo algorithm for group manifolds

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The Worldvolume Hybrid Monte Carlo (WV-HMC) method [arXiv:2012.08468] is a reliable and versatile algorithm for solving the sign problem. This method eliminates the ergodicity problem inherent in methods based on Lefschetz thimbles at low cost. In this talk, in preparation for its application to lattice QCD, we extend the WV-HMC method to the case where the configuration space is a group manifold. The discussion will focus on models with topological terms.

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