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Comparison of topology changing update algorithms

Thursday 29 July 2021 13:00 (15 minutes)

In modern lattice simulations, conventional update algorithms do not allow for tunneling between topological sectors at fine lattice spacings. We compare the viability of multiple (less commonly used) algorithms with respect to proper sampling of all topological sectors in the Schwinger model. We briefly comment on the prospects of applying these methods to 4-dimensional SU(3) simulations.

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Session Classification: Algorithms (including Machine Learning, Quantum Computing, Tensor Networks)

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