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New simulation strategies for lattice QCD

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Despite the numerous successful applications of lattice QCD in nuclear and particle theory, fundamental algorithmic challenges remain. Among those, relevant for numerical studies of QCD on a space time torus, is topological freezing—a form of critical slowing down, which becomes particularly severe for lattice spacing less than 0.05 fm. In this talk, I will highlight several recently proposed simulation strategies for ameliorating the problem of topological freezing, discussing both the advantages and disadvantages of such approaches. Then, I will turn focus toward strategies for addressing critical slowing down in a more general context.

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