

Towards quantum simulation of gauge/gravity duality and lattice gauge theory

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Towards simulating the large N QCD string on a quantum computer

Tuesday 5 March 2024 09:00 (1 hour)

I will show that in the strong coupling expansion of large N QCD on a lattice, the dynamics of the confining string can be well approximated by a one dimensional spin chain. I will describe the prospects for simulations of this spin chain in various approximations and dimensions.

Presenter: Prof. BERENSTEIN, David (UCSB)