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## Non-perturbative physics of (1+1)d gauge theories using symmetric matrix product states

We introduce a novel matrix product operator construction for Hamiltonian lattice gauge theories in (1+1) dimensions. This framework enables the study of strongly coupled phenomena such as bound states, string tension, and vacuum structure. We demonstrate the effectiveness of our method by applying it to the massive Schwinger model and adjoint QCD<sub>2</sub>

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