

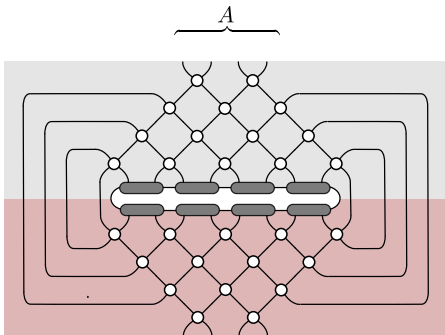
# Entanglement dynamics

- Initial state constructed from solvable tensors

$$|\Psi(\{\mathcal{N}\})\rangle =$$


A horizontal chain of eight gray rectangular tensors. Each tensor has a vertical line extending upwards from its top center. The first tensor on the left has a small black dot on its left vertical line.

- Reduced density matrix  $\rho_A(t) = \text{Tr}_{\bar{A}} (|\Psi(t, \{\mathcal{N}\})\rangle \langle \Psi(t, \{\mathcal{N}\})|)$

$$\rho_A(t) =$$


A tensor network diagram representing the reduced density matrix  $\rho_A(t)$ . The diagram is split horizontally into a light gray upper half and a light red lower half. A horizontal line with a brace above it labeled 'A' spans the top of the gray region. The network consists of a central diamond-shaped lattice of white circular nodes. In the middle of the lattice, there are four horizontal gray rectangular tensors. The network is enclosed by a series of nested, rounded rectangular loops that connect the top and bottom boundaries. The top boundary is in the gray region, and the bottom boundary is in the red region.