
(a)

$$|\Psi\rangle = \text{---} \bullet \text{---} \bullet \text{---} \dots \text{---} \bullet \text{---}$$

(b)

$$H = \begin{array}{c} | \\ | \\ | \\ | \\ | \dots | \\ \text{H} \\ | \\ | \\ | \\ | \\ | \dots | \end{array}$$

↓ decompose

$$\left(\begin{array}{c} \text{L} \\ | \\ | \\ | \\ | \end{array} \text{---} \begin{array}{c} \text{M}_1 \\ | \\ | \\ | \\ | \end{array} \text{---} \begin{array}{c} \text{M}_2 \\ | \\ | \\ | \\ | \end{array} \text{---} \dots \text{---} \begin{array}{c} \text{M}_L \\ | \\ | \\ | \\ | \end{array} \text{---} \begin{array}{c} \text{R} \\ | \\ | \\ | \\ | \end{array} \right)$$