

$$Z_2 X_2 Z_2 X_2 |\Omega_0\rangle = \begin{array}{|c|} \hline Z_2 \\ \hline \text{[Diagram: A square with two vertical red lines and two horizontal blue lines forming a grid]} \\ \hline X_2 \\ \hline \end{array} = \begin{array}{|c|} \hline \text{[Diagram: A square containing two overlapping loops, one blue and one red]} \\ \hline \end{array} - |\Omega_0\rangle$$