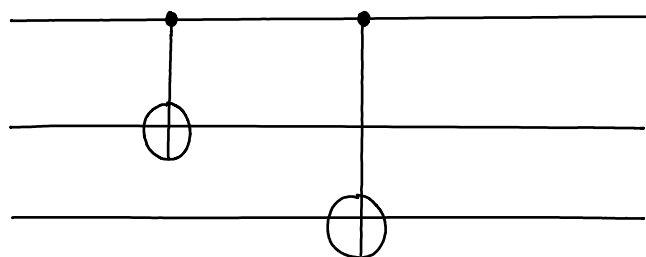


$$|\psi_L\rangle = \alpha|000\rangle + \beta|111\rangle$$

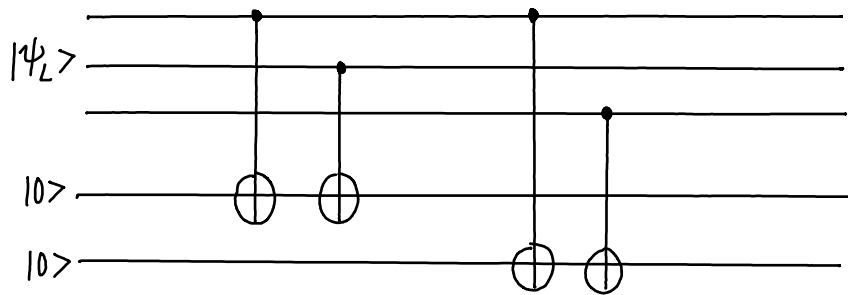
$$|\psi_L\rangle = \alpha|000\rangle + \beta|111\rangle$$



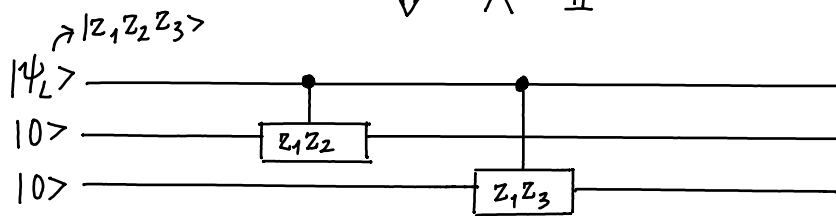
$$|\psi\rangle = \alpha|0\rangle + \beta|1\rangle$$

$$|0\rangle$$

$$|0\rangle$$



$\Downarrow \quad X^2 \propto \mathbb{I}$



$$Z_i Z_j = \begin{cases} +1 & \text{Physical qubits } i \text{ and } j \text{ have identical parity} \\ -1 & \text{Physical qubits } i \text{ and } j \text{ have opposing parity} \end{cases}$$

