

$$P \in \mathcal{P}(n)$$

$$P = P_1 \otimes \dots \otimes P_n$$

$$P_j \in \mathcal{P}(1)$$

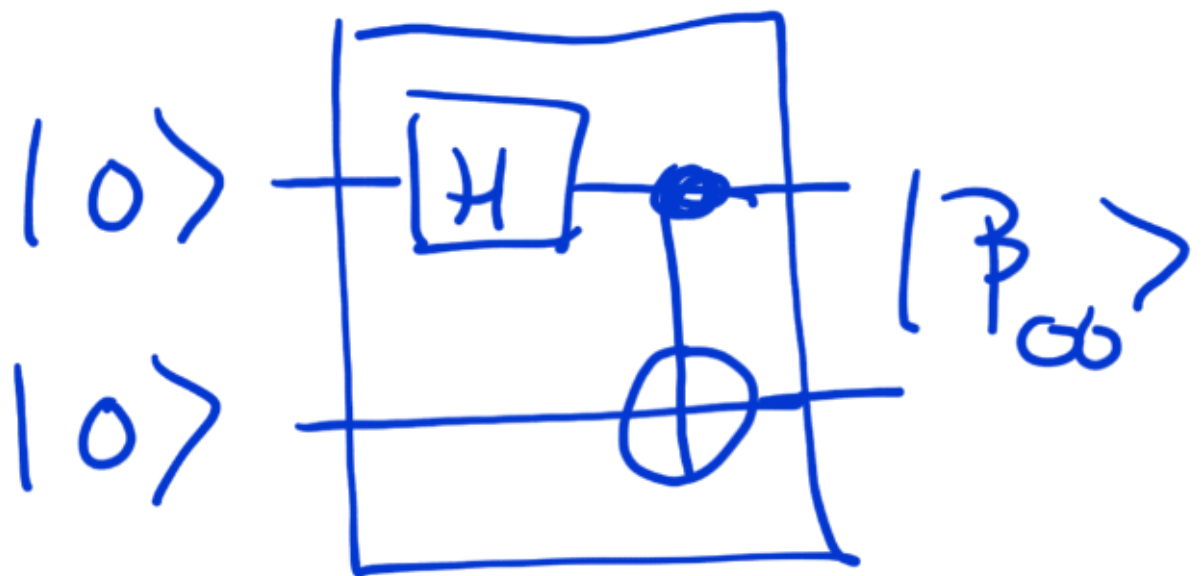
$$P_j \in {}^a P \quad a \in \mathbb{Z}_4$$

$$P \in \{\bar{I}, x, y, z\}$$

$$P = i^a (P_1 \otimes \dots \otimes P_n)$$

$$P_i \in \{\bar{I}, x, y, z\}$$

$$a \in \mathbb{Z}_4$$



$$R_1 |\psi\rangle = |\psi'\rangle$$

$$R_2 |\psi\rangle = |\psi'\rangle$$

$$|\psi'\rangle = |\psi\rangle - |\psi\rangle/p$$

$$\begin{aligned} \text{Stab } |\psi\rangle & \\ &= \text{Stab } |\psi\rangle \cap \text{Stab } |\psi\rangle \end{aligned}$$

$$\begin{aligned} |\psi\rangle & \\ |\psi\rangle &= \alpha |\psi\rangle \end{aligned}$$

$\text{Stab } |\psi\rangle$
 $=$
 $\text{Stab } |\psi\rangle$

$$U \in \text{Stab } |\psi\rangle$$

$$\begin{aligned} \rightarrow U |\psi\rangle &= U \alpha |\psi\rangle \\ &= \alpha U |\psi\rangle \end{aligned}$$

...

$$- \alpha |\psi\rangle = |\psi\rangle$$

$$U \in \text{Stab} |\psi\rangle$$

$$U |\psi\rangle = U \alpha^{-1} |\psi\rangle$$

$$= \alpha^{-1} U |\psi\rangle = |\psi\rangle$$