

$$\rho \left\{ \begin{array}{c} \text{---} \\ \text{---} \end{array} \right\} \boxed{\hat{U}} \left\{ \begin{array}{c} \text{---} \\ \text{---} \end{array} \right\} \rho' \iff \rho' = \hat{U} \rho \hat{U}^\dagger$$