

$$\begin{array}{ccccccc}
 & \xrightarrow{\mathbf{U}(t_0)} & & \xrightarrow{\mathbf{U}(t_1)} & & \xrightarrow{\mathbf{U}(t_n)} & \\
 |\psi\rangle & & \mathbf{U}(t_0)|\psi\rangle & & \mathbf{U}(t_1)\mathbf{U}(t_0)|\psi\rangle & \cdots & \mathbf{U}(t_n)\cdots\mathbf{U}(t_0)|\psi\rangle \\
 & \xleftarrow{\mathbf{U}(t_0)^\dagger} & & \xleftarrow{\mathbf{U}(t_1)^\dagger} & & \xleftarrow{\mathbf{U}(t_n)^\dagger} &
 \end{array}$$