

$$q_0 \text{ --- } \boxed{\begin{matrix} P \\ -\pi/16 \end{matrix}} \text{ ---}$$

$$q_1 \text{ --- } \boxed{\begin{matrix} P \\ -\pi/8 \end{matrix}} \text{ ---}$$

$$q_2 \text{ --- } \boxed{\begin{matrix} P \\ -\pi/4 \end{matrix}} \text{ ---}$$

$$q_3 \text{ --- } \boxed{\begin{matrix} P \\ -\pi/2 \end{matrix}} \text{ ---}$$

$$q_4 \text{ --- } \boxed{\begin{matrix} P \\ -\pi \end{matrix}} \text{ ---}$$