Global Phase:  $\pi/2$ 

$$q_0 | 0 >$$
  $U_0 = 0$ 

$$q_1 \mid 0 > \frac{0, -\pi/2, \pi/2}{\pi, -\pi/2, \pi/2}$$

 $c 0 \stackrel{1}{\Longrightarrow}$