Global Phase:  $\pi/2$ 

$$q_0 |0\rangle \longrightarrow \bigcup_{0, \pi/2, -\pi/2}$$
 $q_1 |0\rangle \longrightarrow \bigcup_{\pi, -\pi/2, \pi/2}$ 
 $c 0 \longrightarrow$