

$$\alpha^{\mathbf{H}[2]\mathbf{UR}_Z(\theta)}$$

1 1 [vertical wire=c]2
[open]-1 X
U [u][1]c

H 1 H $[2, \text{steps}=3, \text{style}=\text{inner sep}=6\text{pt}]$ reversed c-NOT 1 H 1
 H H H

$$\begin{array}{c}
0 \quad U \quad [2] \sqrt{\text{SWAP}} [2] out \\
[2] input [2] V \\
1 \sqrt{2}
\end{array}$$

[wire style="s"]1 [l][1]{"p" above,pos=0.2}a