

$$\begin{array}{|c|c|} \hline \text{Orange} & \text{White} \\ \hline \text{0} & \text{Orange} \\ \hline \end{array} \rangle \mapsto \frac{1}{\sqrt{2}} \begin{array}{|c|c|} \hline \text{Orange} & \text{0} \\ \hline \text{White} & \text{Orange} \\ \hline \end{array} \rangle + \frac{1}{\sqrt{2}} \begin{array}{|c|c|} \hline \text{Orange} & \text{1} \\ \hline \text{White} & \text{Orange} \\ \hline \end{array} \rangle$$

$$\begin{array}{|c|c|} \hline \text{Orange} & \text{White} \\ \hline \text{1} & \text{Orange} \\ \hline \end{array} \rangle \mapsto \frac{1}{\sqrt{2}} \begin{array}{|c|c|} \hline \text{Orange} & \text{0} \\ \hline \text{White} & \text{Orange} \\ \hline \end{array} \rangle - \frac{1}{\sqrt{2}} \begin{array}{|c|c|} \hline \text{Orange} & \text{1} \\ \hline \text{White} & \text{Orange} \\ \hline \end{array} \rangle$$