

$$\begin{array}{c}
 \alpha |0\rangle + \beta |1\rangle \\
 |0\rangle \\
 |0\rangle
 \end{array}
 \begin{array}{c}
 \text{---} \bullet \text{---} \bullet \text{---} \\
 | \quad | \\
 \text{---} \oplus \text{---} \\
 | \quad | \\
 \text{---} \oplus \text{---}
 \end{array}
 \left. \vphantom{\begin{array}{c} \alpha |0\rangle + \beta |1\rangle \\ |0\rangle \\ |0\rangle \end{array}} \right\} \alpha |000\rangle + \beta |111\rangle$$