

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