

$$\begin{array}{ccccc}
& & Z & \xlongequal{\quad} & Z \\
& & \downarrow \begin{pmatrix} 0 \\ 1 \end{pmatrix} & & \downarrow \begin{pmatrix} 0 \\ 1 \end{pmatrix} \\
X & \xrightarrow{\begin{pmatrix} i \\ 0 \end{pmatrix}} & Y \oplus Z & \xrightarrow{\begin{pmatrix} s_1 & 0 \\ s_2 & 1_Z \end{pmatrix}} & Q \oplus Z \\
\parallel & & \downarrow (1,0) & & \downarrow (1,0) \\
X & \dashrightarrow & Z & \dashrightarrow & Q
\end{array}$$