

$$\begin{array}{ccccccccc}
0 & \longrightarrow & P & \xrightarrow{\begin{pmatrix} 1 \\ 0 \end{pmatrix}} & P \oplus Q & \xrightarrow{\begin{pmatrix} 0 & 1 \end{pmatrix}} & Q & \longrightarrow & 0 \\
& & \downarrow p & & \downarrow (\iota p \quad q) & & \downarrow \pi q & & \\
0 & \longrightarrow & L & \xrightarrow{\iota} & M & \xrightarrow{\pi} & N & \longrightarrow & 0
\end{array}$$