

$$\begin{array}{ccccc}
X & \longrightarrow & Y & \longrightarrow & Z \xrightarrow{\eta} \\
\downarrow f & & \downarrow & & \downarrow g \\
X' & \longrightarrow & Y' & \longrightarrow & Z' \xrightarrow{\eta'}
\end{array}
\qquad
\begin{array}{ccc}
QZ & \xrightarrow{\ell(\eta)} & QU_X \\
Q(g) \downarrow & & \downarrow Q(U_f) \\
QZ' & \xrightarrow{\ell(\eta')} & QU_{X'}
\end{array}$$