

$$\begin{array}{ccccccc}
X & \xrightarrow{\quad f \quad} & Y & \xrightarrow{\quad g \quad} \twoheadrightarrow & Z & \xrightarrow{\quad \delta \quad} & \\
\downarrow a & & \downarrow \lambda & & \parallel & & \\
X' & \xrightarrow{\quad p \quad} & E & \xrightarrow{\quad q \quad} \twoheadrightarrow & Z & \xrightarrow{\quad a_* \delta \quad} & \\
\parallel & & \vdash \mu & & \downarrow c & & \\
X' & \xrightarrow{\quad f' \quad} & Y' & \xrightarrow{\quad g' \quad} \twoheadrightarrow & Z' & \xrightarrow{\quad \delta' \quad} &
\end{array}$$