

$$\begin{array}{rcccl}
\kappa & : & A & \dashrightarrow & N & \dashrightarrow & \bullet \\
& & \downarrow f & & \downarrow & & \parallel \\
\eta & : & B & \xrightarrow{s} & M & \xrightarrow{r} & \bullet \\
& & \downarrow g & & \downarrow q & & \\
& & C & \xlongequal{\quad} & C & &
\end{array}$$