$$
\begin{aligned}
& M \stackrel{f}{\longrightarrow} \\
& \Rightarrow K^{*}(M) \stackrel{f}{\leftarrow} K^{*}(N) \\
& M \underset{G}{\stackrel{f}{\longrightarrow}} N \Rightarrow K_{G}^{*}(M) \stackrel{f}{\leftarrow} K_{G}^{*}(N)
\end{aligned}
$$

