

$$\begin{array}{ccccccc}
\dots & \longrightarrow & MC_{k,l}(G) & \xrightarrow{\partial} & MC_{k-1,l}(G) & \longrightarrow & \dots \\
& & \downarrow f_{\#}^{k,l} & \circlearrowleft & \downarrow f_{\#}^{k-1,l} & & \\
\dots & \longrightarrow & MC_{k,l}(H) & \xrightarrow{\partial} & MC_{k-1,l}(H) & \longrightarrow & \dots
\end{array}$$