

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