

$$\begin{array}{ccccc}
 \mathrm{Ker} \, \partial_q & \xrightarrow{f_q} & \mathrm{Ker} \, \delta_q & \xrightarrow{\pi} & H_q(D_\bullet) \\
 & \searrow \rho & & \nearrow f_* & \\
 & & H_q(C_\bullet) & &
 \end{array}$$