

$$\begin{array}{ccccccc}
 \dots & \xrightarrow{\partial_{q+2}} & C_{q+1} & \xrightarrow{\partial_{q+1}} & C_q & \xrightarrow{\partial_q} & C_{q-1} \xrightarrow{\partial_{q-1}} \dots \\
 \downarrow & & \downarrow f_{q+1} & & \downarrow f_q & & \downarrow f_{q-1} \\
 \dots & \xrightarrow{\delta_{q+2}} & D_{q+1} & \xrightarrow{\delta_{q+1}} & D_q & \xrightarrow{\delta_q} & D_{q-1} \xrightarrow{\delta_{q-1}} \dots
 \end{array}$$