

$$\begin{array}{ccc}
 X^{n+1} & \xrightarrow{-d_X} & X^{n+2} \\
 \oplus & \searrow f^{n+1} & \oplus \\
 Y^n & \xrightarrow{d_Y} & Y^{n+1}
 \end{array}$$

$$\mathrm{Cone}(f)^n \xrightarrow{\begin{pmatrix} -d & 0 \\ f & d \end{pmatrix}} \mathrm{Cone}(f)^{n+1}$$