

$$\begin{array}{ccccccc}
 \cdots & \longrightarrow & \tilde{H}_n(X) & \longrightarrow & \tilde{H}_n(CX) & \longrightarrow & \tilde{H}_n(CX, X) \longrightarrow \\
 & & & & & & \searrow \\
 & & & & & & \nearrow \\
 & & \tilde{H}_{n-1}(X) & \longrightarrow & \tilde{H}_{n-1}(CX) & \longrightarrow & \tilde{H}_{n-1}(CX, X) \longrightarrow \cdots,
 \end{array}$$