

$$\begin{array}{ccc}
 [X, K(G, n)]_* & \xleftarrow{f^*} & [Y, K(G, n)]_* \\
 T_X \downarrow \cong & & \cong \downarrow T_Y \\
 \tilde{H}^n(X; G) & \xleftarrow{f^*} & \tilde{H}^n(Y; G)
 \end{array}$$