

$$\begin{array}{ccc}
 \pi_n(Y^{(n)}, e^0) & \xrightarrow{i_*} & \pi_n(Y^{(n+1)}, e^0) \\
 & \searrow f_*^{(n)} & \swarrow f_*^{(n+1)} \\
 & \pi_n(X, x_0) &
 \end{array}$$