

$$\begin{array}{ccc}
 \pi_n(\tilde{X}, \tilde{x}_0) & \xrightarrow{\tilde{j}_*} & \pi_n(\tilde{Y}, \tilde{x}_0) \\
 \downarrow p_{X*} \cong & & \cong \downarrow p_{Y*} \\
 \pi_n(X, x_0) & \xrightarrow{j_*} & \pi_n(Y, x_0)
 \end{array}$$