

$$\begin{array}{ccccccc}
\pi_1(U_1, y_0) & \xrightarrow[\cong]{s_\gamma} & \pi_1(U_1, f(s_0)) & \xleftarrow[\cong]{i_*} & \pi_1(Y, f(s_0)) & \xrightarrow[\cong]{s_{\bar{\tau}}} & \pi_1(Y, x_0) \\
\downarrow j_* & & \downarrow j_* & & \downarrow j_* & & \downarrow j_* \\
\pi_1(X, y_0) & \xrightarrow[\cong]{s_\gamma} & \pi_1(X, f(s_0)) & \xleftarrow[\text{id}]{\cong} & \pi_1(X, f(s_0)) & \xrightarrow[\cong]{s_{\bar{\tau}}} & \pi_1(X, x_0)
\end{array}$$