

$$\begin{array}{ccc}
 \pi_k(X, A, x_0) & \xrightarrow{q_*} & \pi_k(X/A, *, *) \\
 \uparrow r_* \cong & & \cong \uparrow s_* \\
 \pi_k(M, M_2, \bar{x}_0) & \xrightarrow{\varphi_*} & \pi_k(C, C_2, \varphi(\bar{x}_0)) \\
 \uparrow i_* \cong & & \uparrow i'_* \\
 \pi_k(M_1, M_1 \cap M_2, \bar{x}_0) & \xrightarrow[\cong]{\varphi|_{M_1*}} & \pi_k(C_1, C_1 \cap C_2, \varphi(\bar{x}_0))
 \end{array}$$