

$$\begin{array}{ccccc}
M & \xleftarrow{P_2} & M_s \times_t M & \xrightarrow{P_1} & M \\
\downarrow s & \circlearrowleft & \downarrow c & \circlearrowleft & \downarrow t \\
C & \xleftarrow{s} & M & \xrightarrow{t} & C
\end{array}$$