

$$\begin{array}{ccccc}
C & \xleftarrow{s} & M & \xrightarrow{t} & C \\
F_C \downarrow & \circlearrowleft & \downarrow F_M & \circlearrowleft & \downarrow F_C \\
C & \xleftarrow{t'} & M' & \xrightarrow{s'} & C
\end{array}$$