

$$\begin{array}{ccc}
 B & \xrightarrow{\omega_a} & S(a, a) \\
 \omega_{a'} \downarrow & \swarrow \omega_f & \downarrow S(a, f) \\
 S(a', a') & \xrightarrow{S(f, a')} & S(a, a')
 \end{array}$$