

$$\begin{array}{ccc}
T & \xrightarrow{\eta T} & TT \\
& \searrow \text{id} & \downarrow \mu \\
& & T
\end{array}$$

$$\begin{array}{ccc}
T & \xrightarrow{T \eta} & TT \\
& \searrow \text{id} & \downarrow \mu \\
& & T
\end{array}$$