

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

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