

$$\begin{array}{ccc}
 T^3 & \xrightarrow{T\mu} & T^2 \\
 \downarrow \mu T & & \downarrow \mu \\
 T^2 & \xrightarrow{\mu} & T
 \end{array}$$

$$\begin{array}{ccc}
 T & \xrightarrow{\eta T} & T^2 \\
 \downarrow T\eta & \searrow & \downarrow \mu \\
 T^2 & \xrightarrow{\mu} & T
 \end{array}$$