

$$\begin{array}{ccccc}
W & \xlongequal{\quad} & W & \xlongequal{\quad} & W \\
\downarrow e_2 & & \downarrow & & \downarrow \\
X \oplus W & \xrightarrow{f} & E & \dashrightarrow & T \\
\downarrow p_1 & & \downarrow g & & \downarrow \\
X & \xrightarrow{gf} & Y & \xrightarrow{d} & Z \\
\\
0 & \xleftarrow{(gf)^*} & \delta & \xleftarrow{d^*} & \eta
\end{array}$$