

$$\begin{array}{ccccccc}
 0 & \longrightarrow & \ker \pi_R & & & R & \longrightarrow 0 \\
 & & \searrow & & \nearrow^{\pi_R} & & \\
 & & & R \times_T S & & & \\
 & \nearrow & & \searrow_{\pi_S} & & & \\
 0 & \longrightarrow & \ker \pi_S & & & S & \longrightarrow 0
 \end{array}$$