

$$\begin{array}{ccccc}
 \text{Ker}(\varphi - \psi) & \xrightarrow{i} & G & \begin{array}{c} \xrightarrow{\varphi} \\ \xrightarrow{\psi} \end{array} & H \\
 \uparrow \tau & & \nearrow \sigma & & \\
 K & & & &
 \end{array}$$