

$$\begin{array}{ccccccc}
 \ker \alpha & \longrightarrow & \ker \beta & \longrightarrow & \ker \gamma & & \\
 \downarrow & & \downarrow & & \downarrow & \omega & \circ \\
 A & \longrightarrow & B & \longrightarrow & C & \longrightarrow & 0 \\
 \downarrow & \delta & \downarrow & \sigma & \Delta \sigma & \downarrow & \omega & \circ \\
 0 \longrightarrow & A' & \longrightarrow & B' & \longrightarrow & C & \\
 \downarrow & \theta & \Delta \theta & \downarrow & \tau & \Delta \tau & \downarrow \\
 \text{coker } \alpha & \longrightarrow & \text{coker } \beta & \longrightarrow & \text{coker } \gamma & & 
 \end{array}$$

$\bar{\theta} \quad \overline{\Delta \theta} = \overline{\alpha(\delta)} = 0 \in \text{coker } \alpha$