

$$\begin{array}{ccccccc}
0 & \longrightarrow & \widehat{A'} & \longrightarrow & \widehat{A} & \longrightarrow & \widehat{A''} \\
& & \downarrow & & \downarrow & & \downarrow \\
0 & \longrightarrow & \widetilde{A'} & \longrightarrow & \widetilde{A} & \longrightarrow & \widetilde{A''} \longrightarrow 0 \\
& & \downarrow d' & & \downarrow d & & \downarrow d'' \\
0 & \longrightarrow & \widetilde{A'} & \longrightarrow & \widetilde{A} & \longrightarrow & \widetilde{A''} \longrightarrow 0 \\
& & \downarrow & & \downarrow & & \downarrow \\
& & \text{Coker}(d') & \longrightarrow & \text{Coker}(d) & \longrightarrow & \text{Coker}(d'')
\end{array}$$