

$$\begin{array}{ccccccc}
0 & \longrightarrow & M & \hookrightarrow & X_\beta & \longrightarrow & C_\beta \longrightarrow 0 \\
& & \parallel & & \downarrow & & \downarrow \\
0 & \longrightarrow & M & \hookrightarrow & \operatorname{im}(\alpha_\beta) & \longrightarrow & \operatorname{im}(\alpha_\beta|_{\operatorname{cok}}) \longrightarrow 0 \\
& & \parallel & & \downarrow & & \downarrow \\
0 & \longrightarrow & M & \hookrightarrow & X_{\beta+1} & \longrightarrow & C_{\beta+1} \longrightarrow 0
\end{array}
\qquad
\begin{array}{c}
\theta_\beta \\
\downarrow \\
\varepsilon \\
\downarrow \\
\theta_{\beta+1}
\end{array}$$