

$$\begin{array}{ccccccc}
& & & & & & X \\
& & & & & \swarrow \varphi & \\
0 & \longrightarrow & M & \xrightarrow{i} & C & \longrightarrow & \operatorname{cok}(i) \longrightarrow 0 \\
& & \parallel & & \downarrow & & \downarrow \\
0 & \longrightarrow & M & \longrightarrow & M_C & \longrightarrow & M_B \longrightarrow 0
\end{array}$$