

$$\begin{array}{ccccccc}
\dots & \xrightarrow{\psi_{3,4}} & X_3 & \xrightarrow{\psi_{2,3}} & X_2 & \xrightarrow{\psi_{1,2}} & X_1 \xrightarrow{\psi_{0,1}} X_0 \\
& & \uparrow & & \uparrow & & \uparrow \\
\dots & \longrightarrow & \mathrm{im}(\psi_{\infty,3}) & \longrightarrow & \mathrm{im}(\psi_{\infty,2}) & \longrightarrow & \mathrm{im}(\psi_{\infty,1}) \longrightarrow \mathrm{im}(\psi_{\infty,0})
\end{array}$$