

$$\begin{array}{ccccccc}
 H\Lambda^0(\Omega) & \xrightarrow{\quad d \quad} & H\Lambda^1(\Omega) & \xrightarrow{\quad d \quad} & H\Lambda^2(\Omega) & \xrightarrow{\quad d \quad} & L^2\Lambda^3(\Omega) \\
 \Pi_0 \downarrow & & \Pi_1 \downarrow & & \Pi_2 \downarrow & & \Pi_3 \downarrow \\
 V_0 & \xrightarrow{\quad d \quad} & V_1 & \xrightarrow{\quad d \quad} & V_2 & \xrightarrow{\quad d \quad} & V_3
 \end{array}$$