

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