

$$\begin{array}{ccccc}
 X & \xrightarrow{v_x} & V_X & \xrightarrow{u_x} & U_X \\
 \downarrow Q & & & & \downarrow Q \\
 X & \overset{[1]}{\dashrightarrow} & & & X[1]
 \end{array}$$

$$\begin{array}{c}
 \text{in } \mathcal{A} \\
 \downarrow Q \\
 \text{in Ho}\mathcal{A}
 \end{array}$$