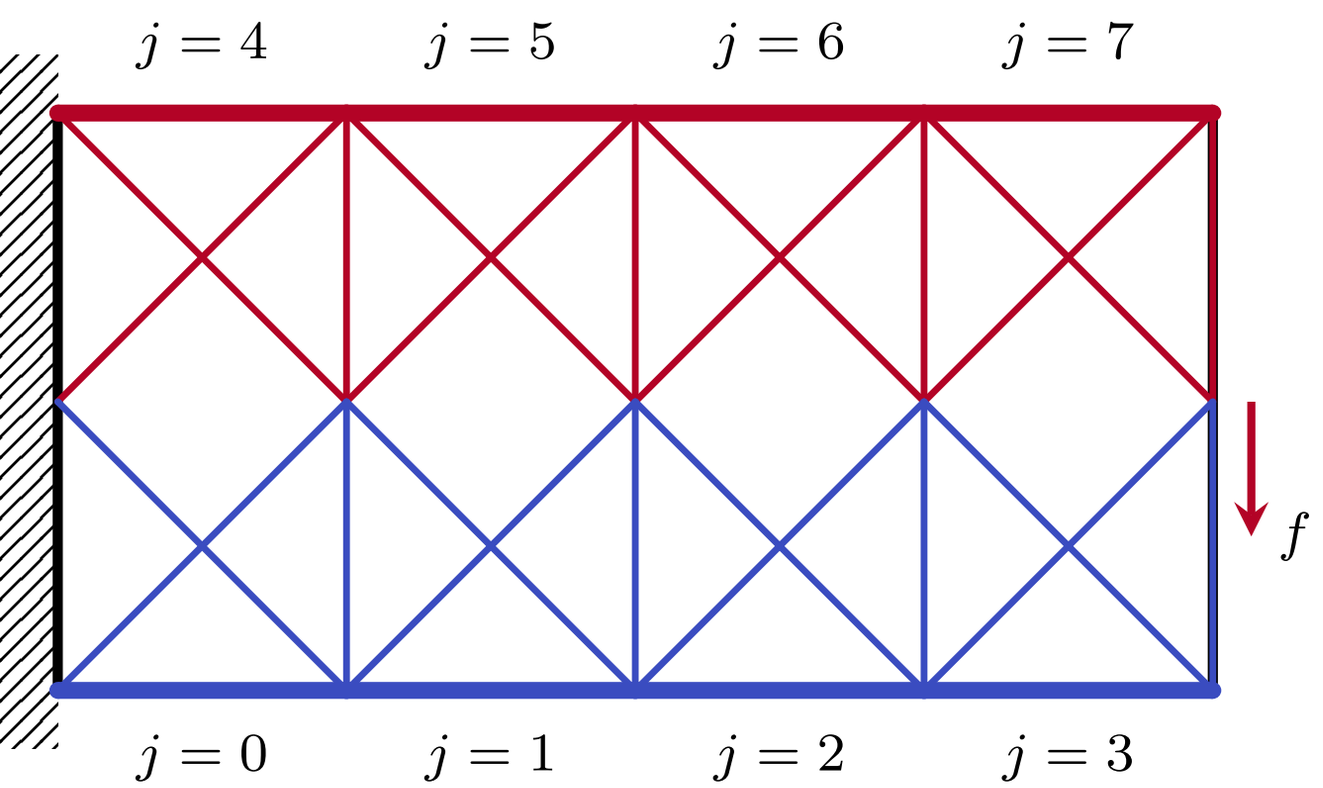

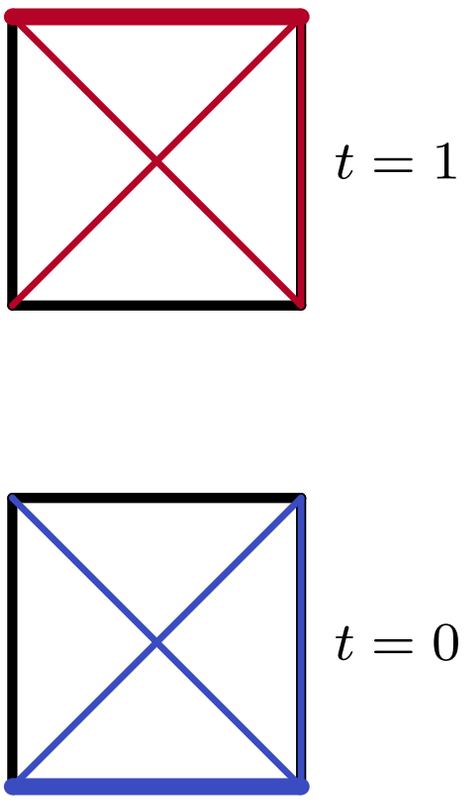

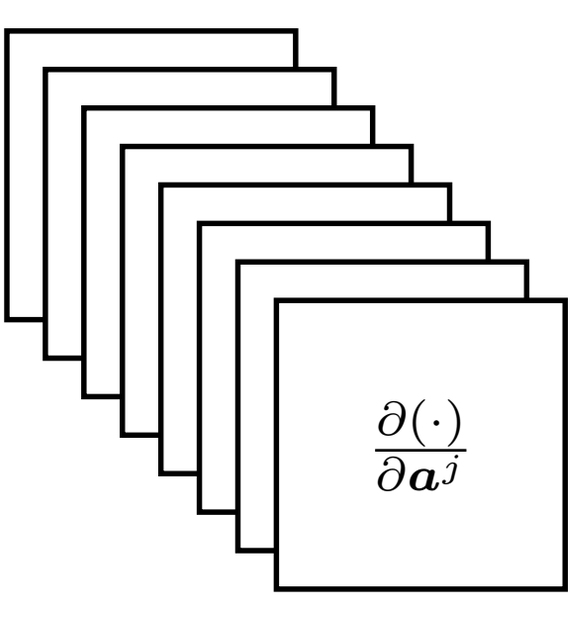

Submodules monolitic sensitivities

$$\boldsymbol{H} = \begin{bmatrix} 1 & 0 \\ 1 & 0 \\ 1 & 0 \\ 1 & 0 \\ 0 & 1 \\ 0 & 1 \\ 0 & 1 \\ 0 & 1 \end{bmatrix}$$

$$\frac{\partial(\cdot)_i}{\partial \bar{\boldsymbol{a}}_{t=0}} = 1 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^0} + 1 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^1} + 1 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^2} + 1 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^3} + 0 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^4} + 0 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^5} + 0 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^6} + 0 \times \frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^7}$$