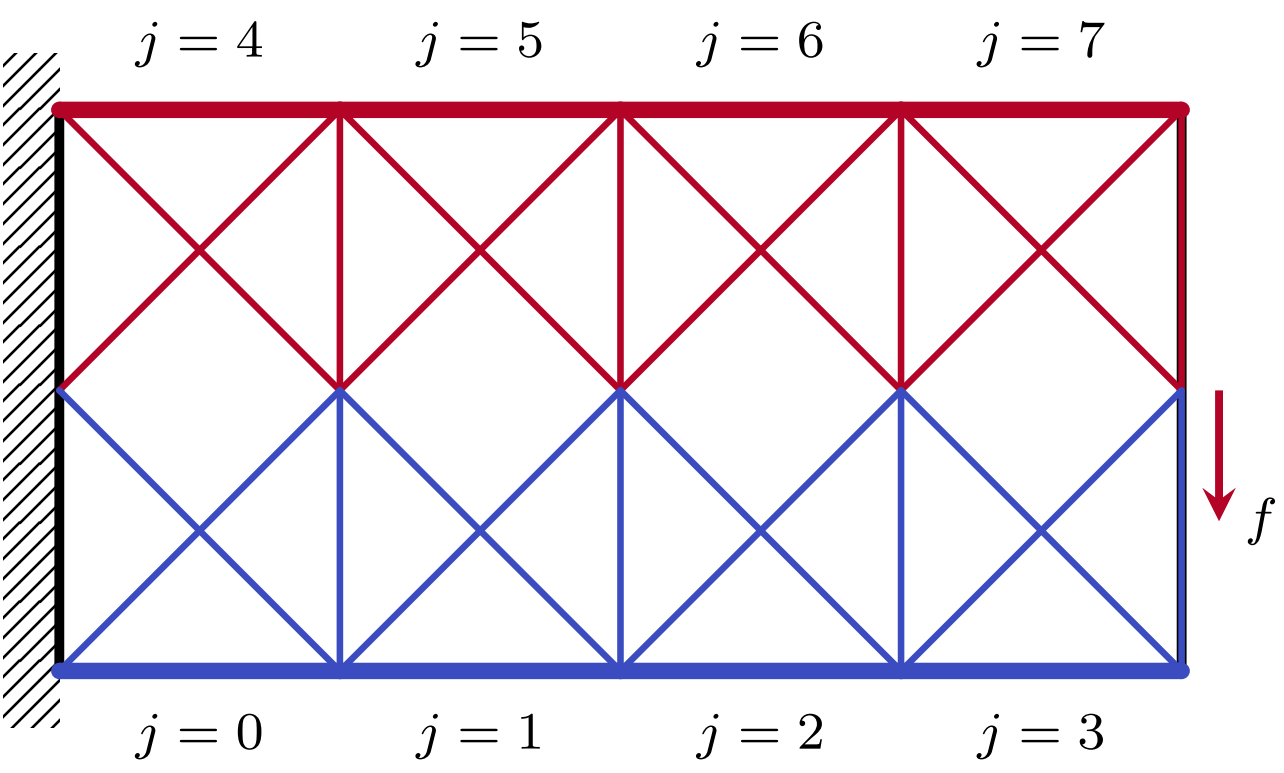

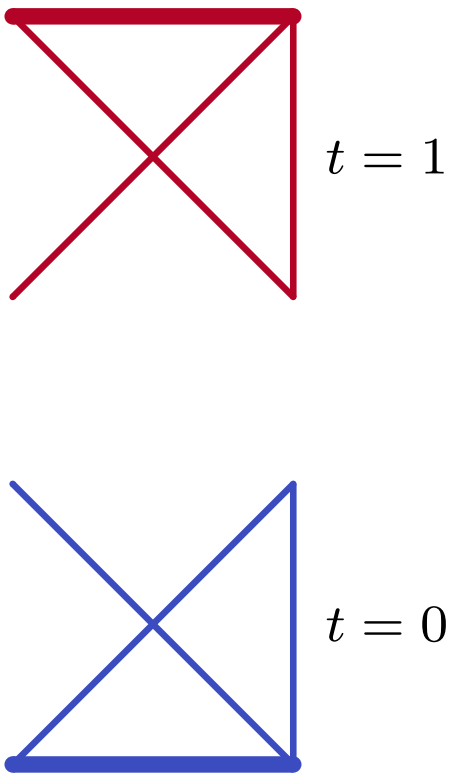

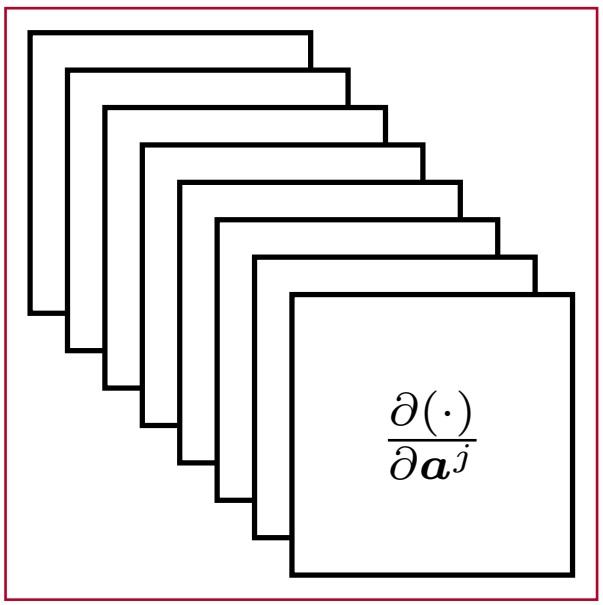

Submodules monolitic sensitivities

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

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

$$\boxed{0} \times \boxed{\frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^4}} + \boxed{0} \times \boxed{\frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^5}} + \boxed{0} \times \boxed{\frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^6}} + \boxed{0} \times \boxed{\frac{\partial(\cdot)_i}{\partial \boldsymbol{a}^7}}$$