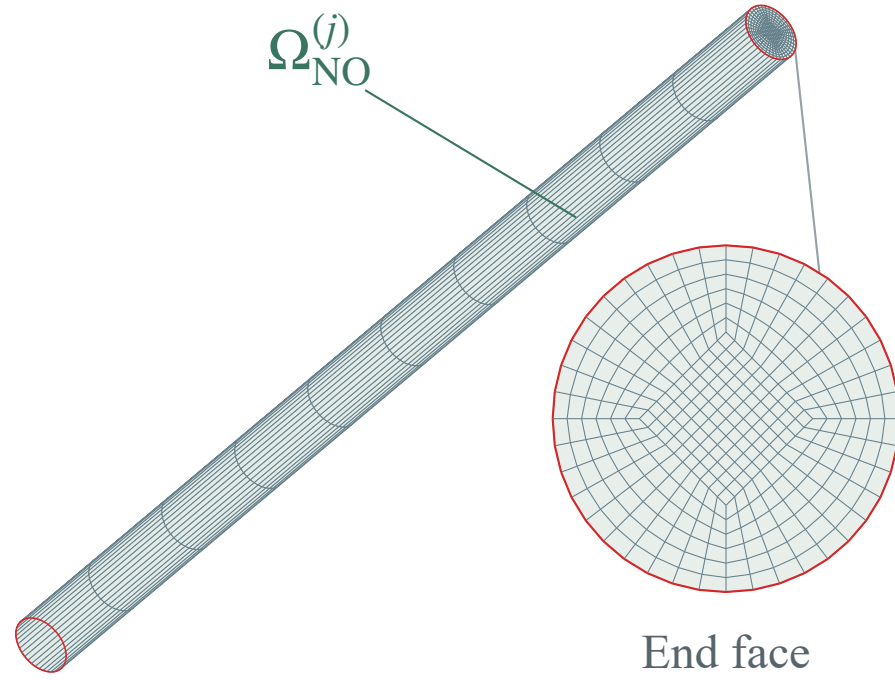


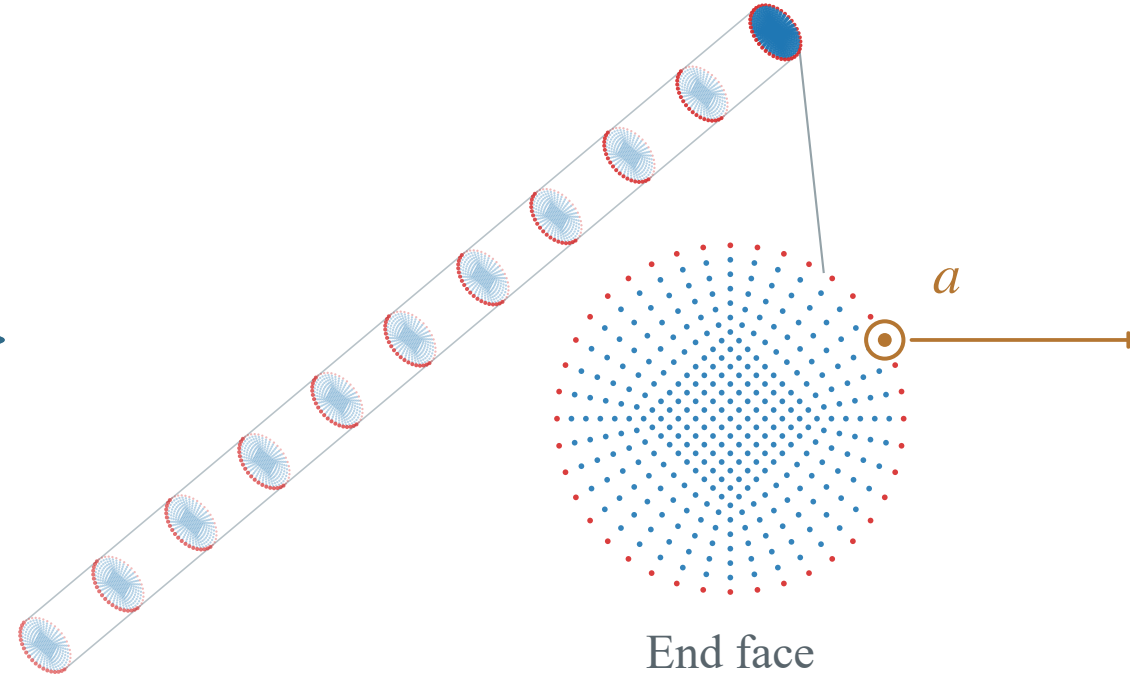
(a) HEX8 mesh



$$N_e = 3400$$

$$L = 10 \text{ mm}, \quad d = 0.5 \text{ mm}$$

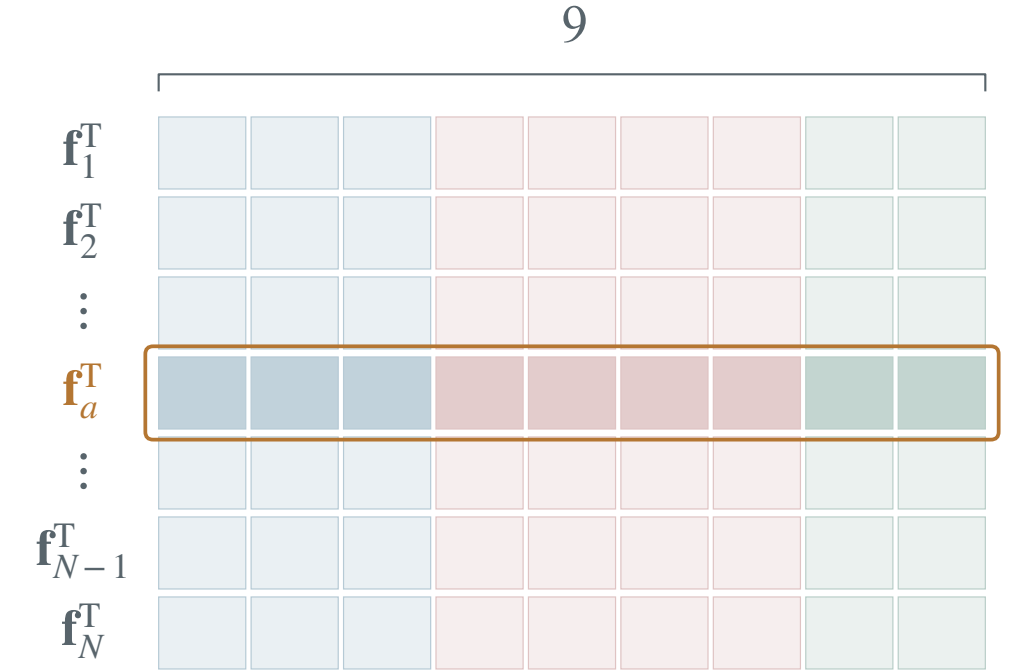
(b) Nodal point cloud



$$N = 3971$$

• Other nodes • Interface Γ

(c) Input matrix



$$\mathbf{X}^{(j)} \in \mathbb{R}^{N \times 9}$$

$$j = 1, \dots, 100$$

(d) Nodal features

$$\mathbf{f}_a^T = \left[\underbrace{x, y, z}_{3} \mid \underbrace{\chi^D, u_x^D, u_y^D, u_z^D}_{4} \mid \underbrace{E, \nu}_{2} \right]$$