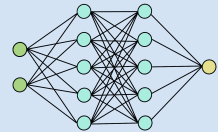


## ONLINE : PINN evaluation + Enriched FEM resolution

### Inputs

$X \in \Omega$  : sets of coords  
One given set  $\mu \in \mathcal{M}$

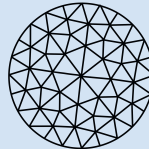


**Trained PINN**



### PINN evaluation

$u_\theta$  : prediction for  
the parameter  $\mu$



**FEM solver**  
enriched by  $u_\theta$



### Output

enriched FEM solution  
(depending on the mesh size  $h$ )