$L^2$  norm of error with N=20 and  $\eta = 0.1$ 0.018 0.024 0.021 0.022 2 Number of hidden layers 0.019 0.02 0.019 0.023 0.018 0.019 0.019 0.021 0.017 0.022 0.02 0.018  $\mathbf{\Omega}$ 20 30 40 50 Number of hidden neurons