$L^2$  norm of error with N=40 and 3 hidden layers 0.01 0.002 0.0021 0.0023 0.0019 0.05 0.0014 0.0016 0.0016 0.0016 0.1 0.0014 0.0013 0.0014 0.0012 0.0014 0.0012 0.0012 0.0013 20 40 50 30

Number of neurons in hidden layers