L^2 error norm with N=30 and 3 hidden layers -0.085 -0.075 -0.072 -0.074 -0.072 -0.075 -0.064 -0.065 -0.065 -0.065 -0.059 -0.058 -0.058 -0.058 -0.059 -0.057 -0.057 -0.057

0.05

0.1

10 20 30 40 50 Number of neurons in hidden layers