Neural network's structural test:
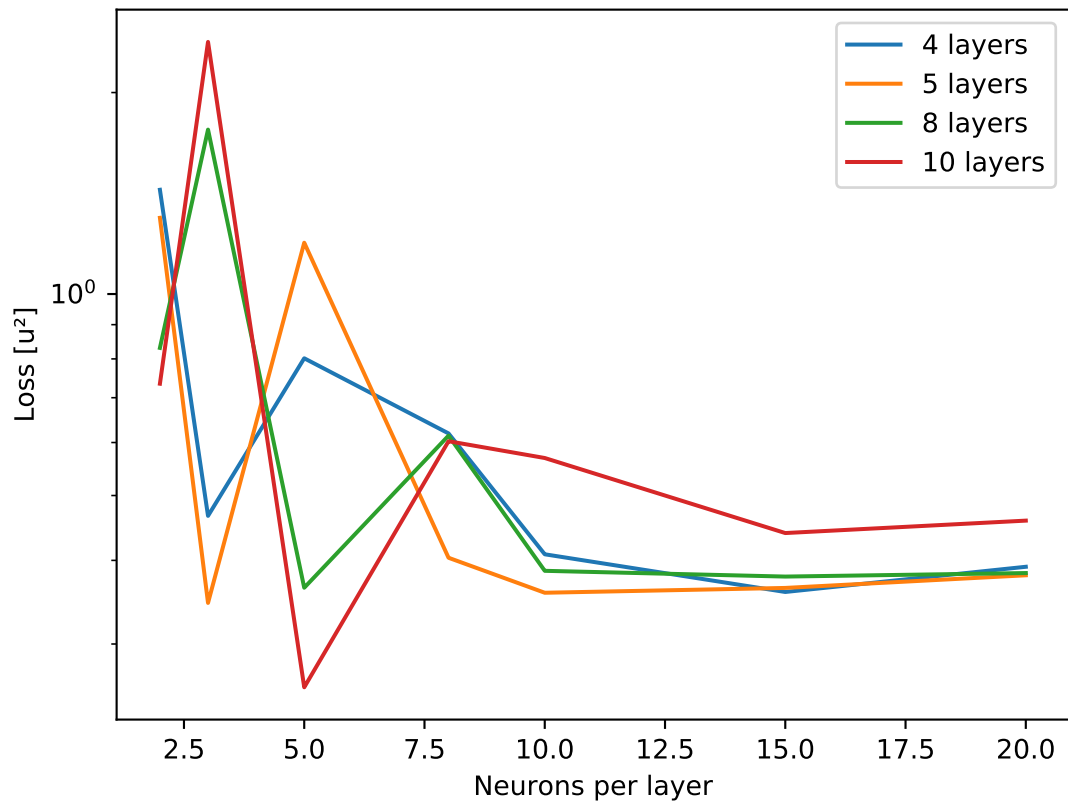Adam epochs -> 300
Max L-BFGS iterations -> 1000
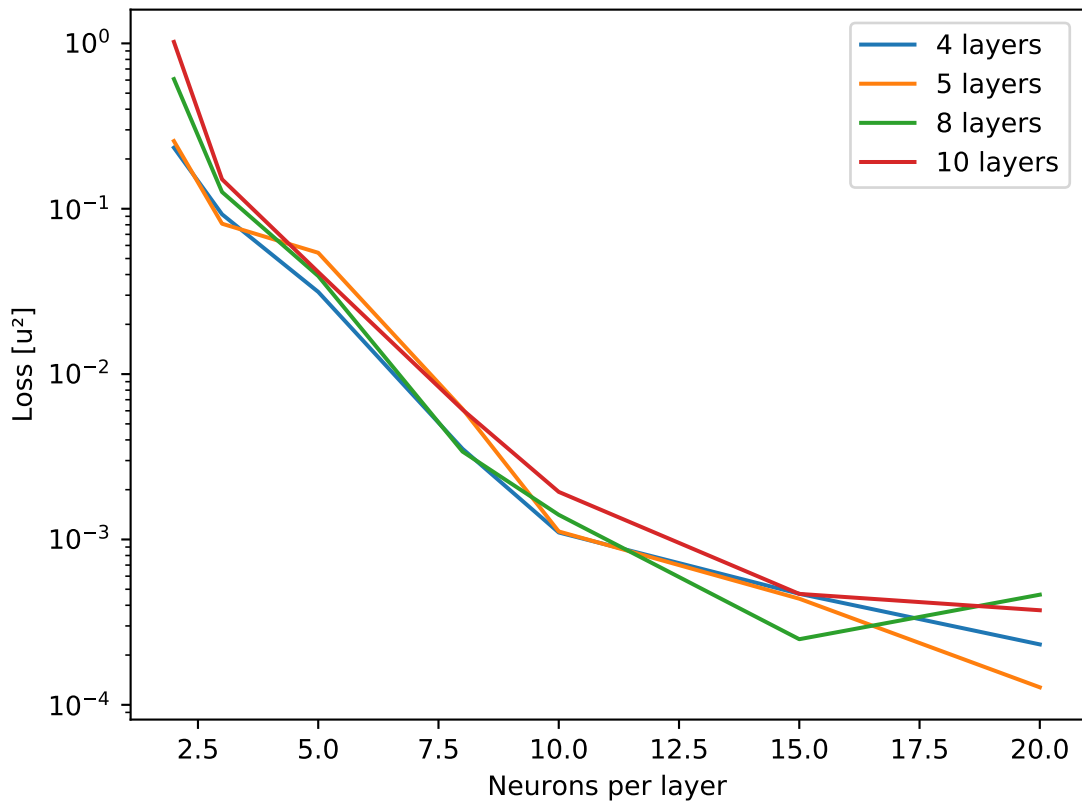Working period -> 1.0 s
Train Nu -> 1000
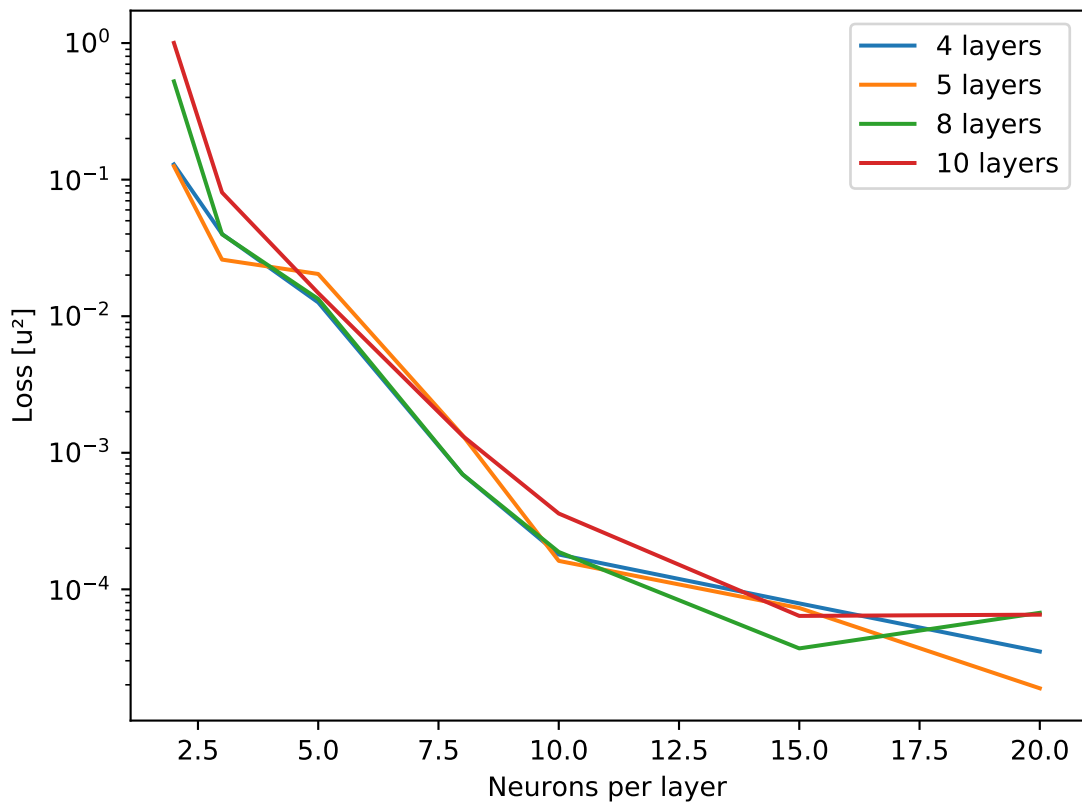Train Nf -> 100000
Validation points -> 9996

Final validation loss

Final train total loss

Final train u loss

Final train f loss