$L^2$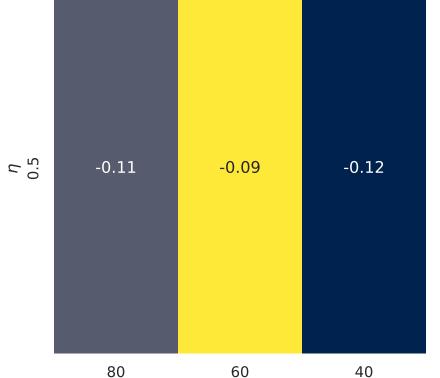 error norm with 30 hidden neurons and 3 hidden layers