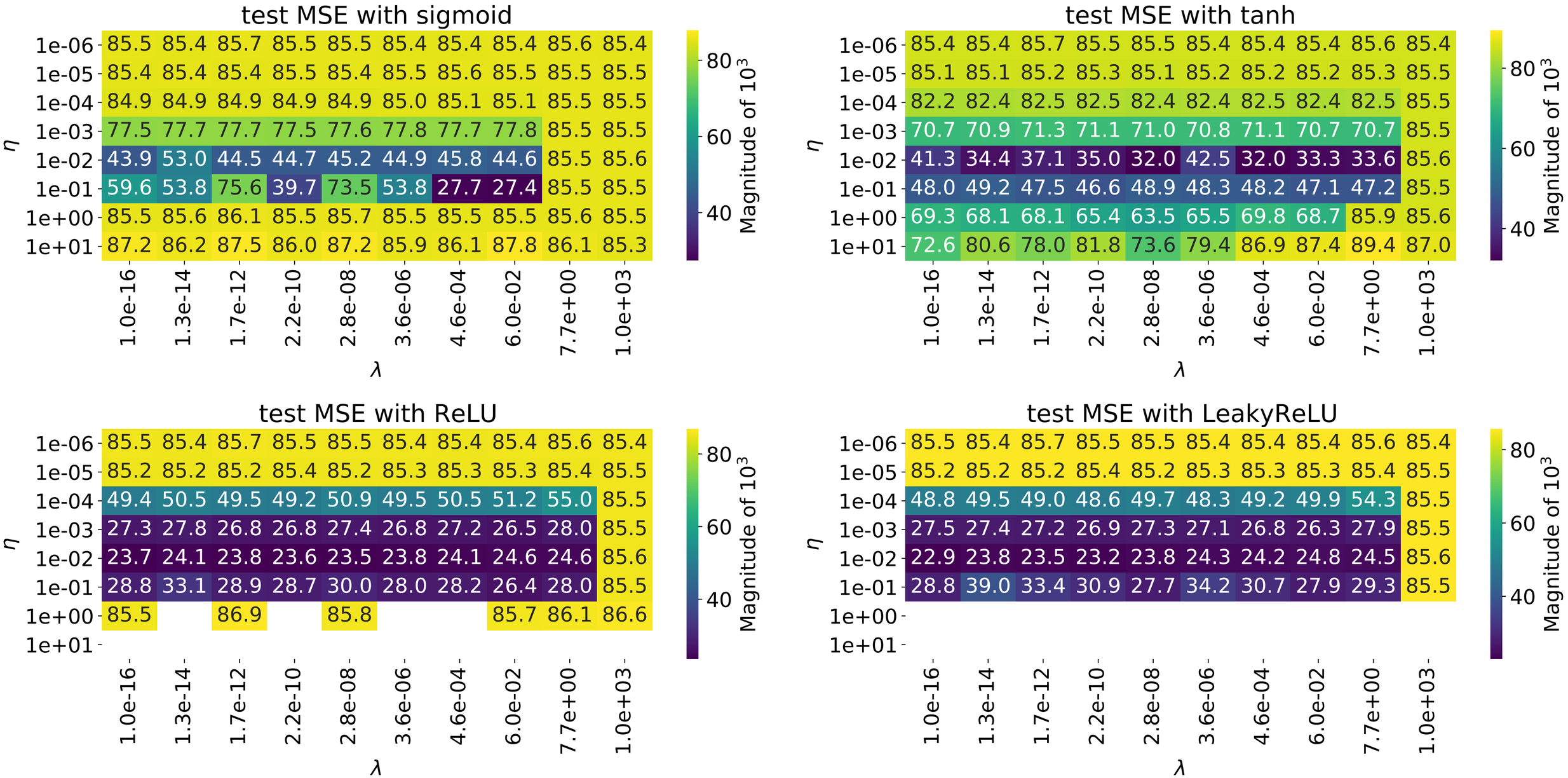
test MSE with sigmoid
η
1e-06 85.5 85.4 85.7 85.5 85.5 85.4 85.4 85.4 85.6 85.4
1e-05 85.4 85.4 85.4 85.5 85.4 85.5 85.6 85.5 85.5 85.5
1e-04 84.9 84.9 84.9 84.9 84.9 85.0 85.1 85.1 85.5 85.5
1e-03 77.5 77.7 77.7 77.5 77.6 77.8 77.7 77.8 85.5 85.5
1e-02 43.9 53.0 44.5 44.7 45.2 44.9 45.8 44.6 85.5 85.6
1e-01 59.6 53.8 75.6 39.7 73.5 53.8 27.7 27.4 85.5 85.5
1e+00 85.5 85.6 86.1 85.5 85.7 85.5 85.5 85.5 85.6 85.5
1e+01 87.2 86.2 87.5 86.0 87.2 85.9 86.1 87.8 86.1 85.3
1.0e-16 1.3e-14 1.7e-12 2.2e-10 2.8e-08 3.6e-06 4.6e-04 6.0e-02 7.7e+00 1.0e+03
λ
80
60
40
Magnitude of 10^3
test MSE with tanh
η
1e-06 85.4 85.4 85.7 85.5 85.5 85.4 85.4 85.4 85.6 85.4
1e-05 85.1 85.1 85.2 85.3 85.1 85.2 85.2 85.2 85.3 85.5
1e-04 82.2 82.4 82.5 82.5 82.4 82.4 82.5 82.4 82.5 85.5
1e-03 70.7 70.9 71.3 71.1 71.0 70.8 71.1 70.7 70.7 85.5
1e-02 41.3 34.4 37.1 35.0 32.0 42.5 32.0 33.3 33.6 85.6
1e-01 48.0 49.2 47.5 46.6 48.9 48.3 48.2 47.1 47.2 85.5
1e+00 69.3 68.1 68.1 65.4 63.5 65.5 69.8 68.7 85.9 85.6
1e+01 72.6 80.6 78.0 81.8 73.6 79.4 86.9 87.4 89.4 87.0
1.0e-16 1.3e-14 1.7e-12 2.2e-10 2.8e-08 3.6e-06 4.6e-04 6.0e-02 7.7e+00 1.0e+03
λ
80
60
40
Magnitude of 10^3
test MSE with ReLU
η
1e-06 85.5 85.4 85.7 85.5 85.5 85.4 85.4 85.4 85.6 85.4
1e-05 85.2 85.2 85.2 85.4 85.2 85.3 85.3 85.3 85.4 85.5
1e-04 49.4 50.5 49.5 49.2 50.9 49.5 50.5 51.2 55.0 85.5
1e-03 27.3 27.8 26.8 26.8 27.4 26.8 27.2 26.5 28.0 85.5
1e-02 23.7 24.1 23.8 23.6 23.5 23.8 24.1 24.6 24.6 85.6
1e-01 28.8 33.1 28.9 28.7 30.0 28.0 28.2 26.4 28.0 85.5
1e+00 85.5 86.9 85.8 85.7 86.1 86.6
1e+01
1.0e-16 1.3e-14 1.7e-12 2.2e-10 2.8e-08 3.6e-06 4.6e-04 6.0e-02 7.7e+00 1.0e+03
λ
80
60
40
Magnitude of 10^3
test MSE with LeakyReLU
η
1e-06 85.5 85.4 85.7 85.5 85.5 85.4 85.4 85.4 85.6 85.4
1e-05 85.2 85.2 85.2 85.4 85.2 85.3 85.3 85.3 85.4 85.5
1e-04 48.8 49.5 49.0 48.6 49.7 48.3 49.2 49.9 54.3 85.5
1e-03 27.5 27.4 27.2 26.9 27.3 27.1 26.8 26.3 27.9 85.5
1e-02 22.9 23.8 23.5 23.2 23.8 24.3 24.2 24.8 24.5 85.6
1e-01 28.8 39.0 33.4 30.9 27.7 34.2 30.7 27.9 29.3 85.5
1e+00
1e+01
1.0e-16 1.3e-14 1.7e-12 2.2e-10 2.8e-08 3.6e-06 4.6e-04 6.0e-02 7.7e+00 1.0e+03
λ
80
60
40
Magnitude of 10^3