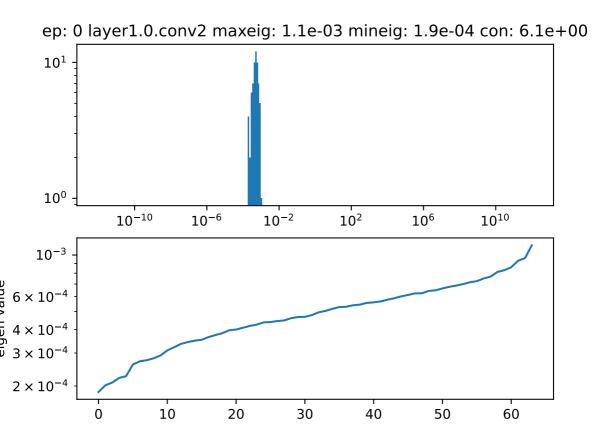
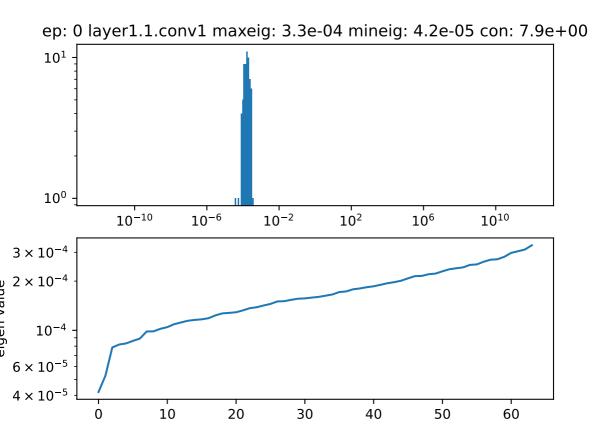


ep: 0 layer1.0.conv1 maxeig: 3.4e-03 mineig: 2.1e-04 con: 1.6e+01  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>10</sup> 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup> eigen value 10<sup>-3</sup> 50 60 10 20 30 40





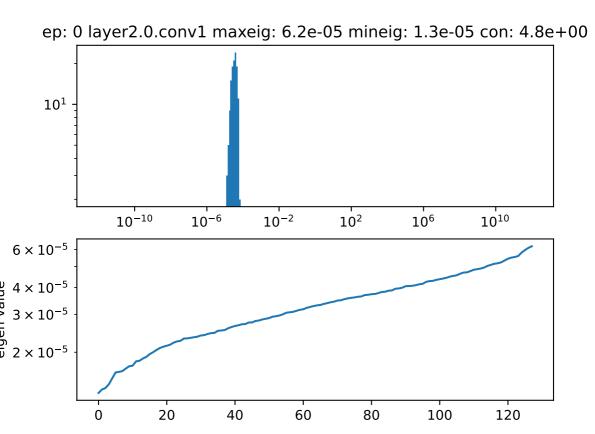
ep: 0 layer1.1.conv2 maxeig: 4.4e-04 mineig: 5.2e-05 con: 8.5e+00  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10-10  $10^{-6}$ 10-2 10<sup>6</sup> eigen value 10<sup>-4</sup> 50 60

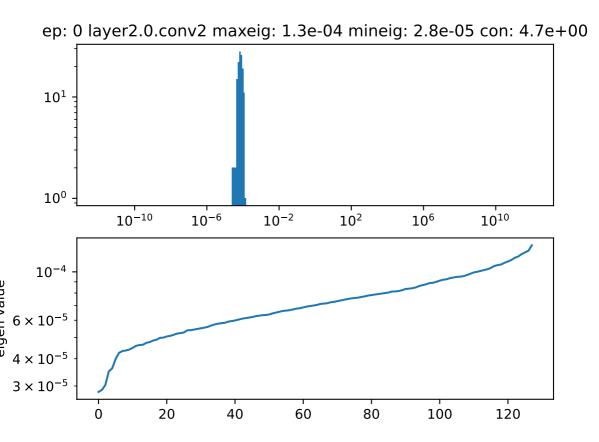
30

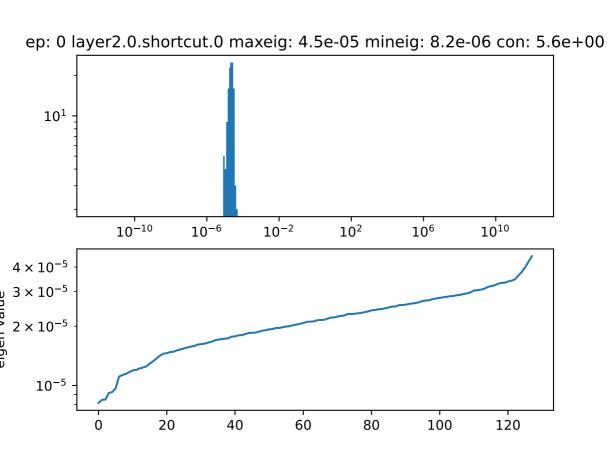
40

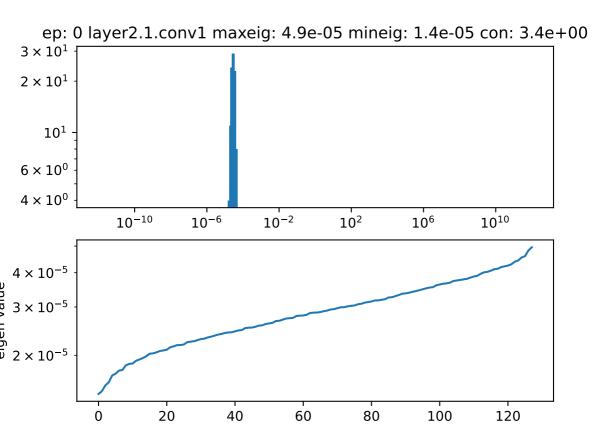
10

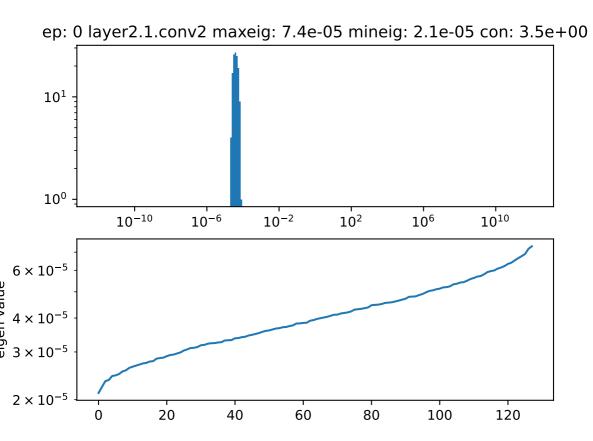
20

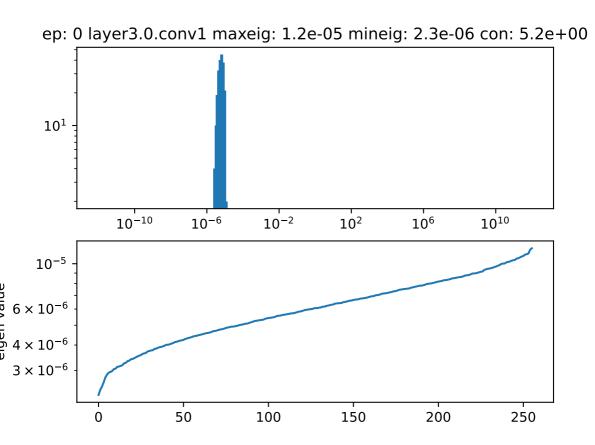


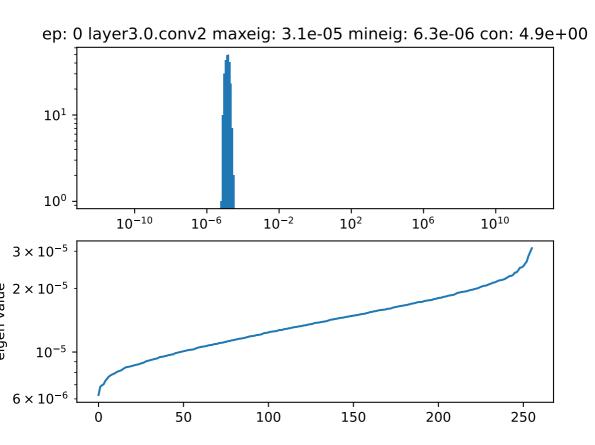


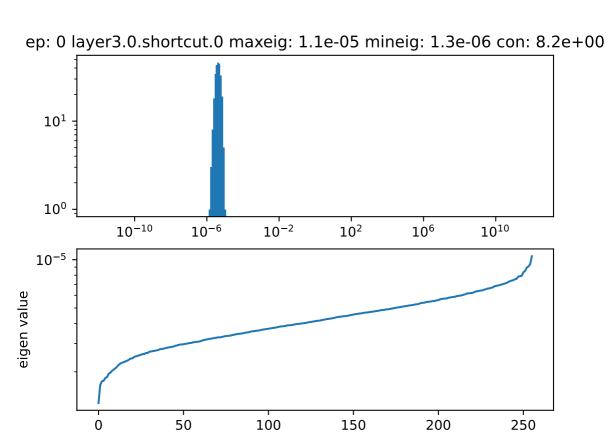


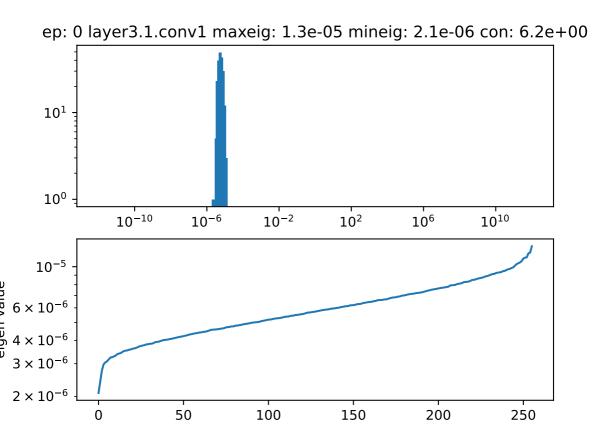


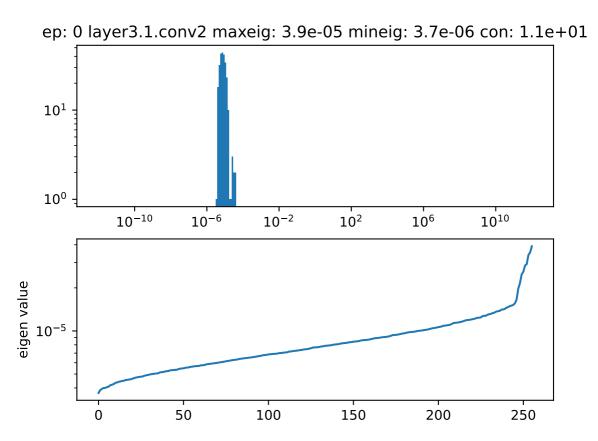








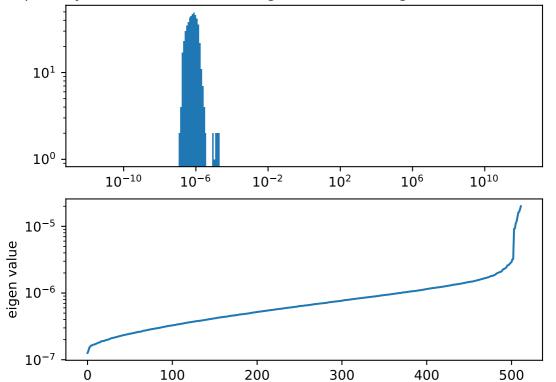




ep: 0 layer4.0.conv1 maxeig: 1.3e-05 mineig: 2.1e-07 con: 6.3e+01  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-5}$ eigen value 10<sup>-6</sup> 100 500 200 300 400

ep: 0 layer4.0.conv2 maxeig: 7.3e-05 mineig: 5.4e-07 con: 1.3e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$ eigen value 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

ep: 0 layer4.0.shortcut.0 maxeig: 2.0e-05 mineig: 1.3e-07 con: 1.6e+02



ep: 0 layer4.1.conv1 maxeig: 3.5e-05 mineig: 2.1e-07 con: 1.7e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup> eigen value 10<sup>-5</sup> 100 500 200 300 400

ep: 0 layer4.1.conv2 maxeig: 1.4e-04 mineig: 9.8e-08 con: 1.4e+03  $10^{1}$ 10<sup>0</sup> 10 10 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-5</sup> 10<sup>-5</sup>  $10^{-7}$ 100 500 200 300 400

