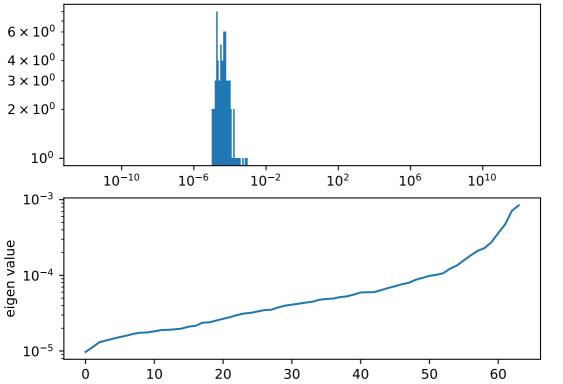
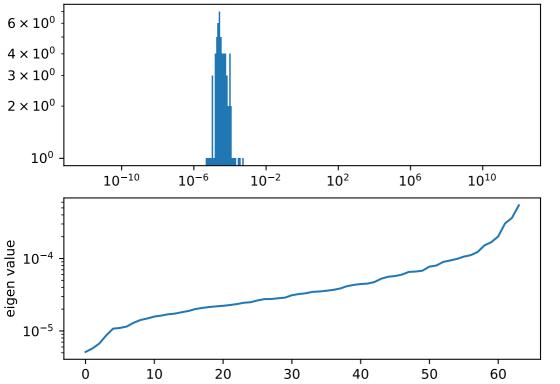


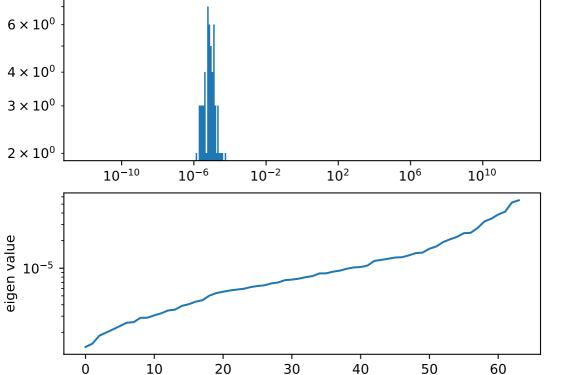
ep: 16 layer1.0.conv1 maxeig: 8.4e-04 mineig: 9.7e-06 con: 8.7e+01



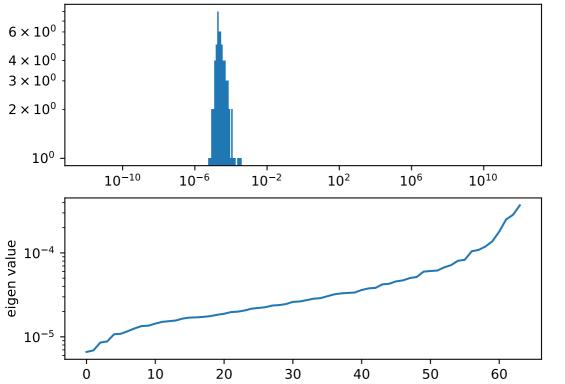
ep: 16 layer1.0.conv2 maxeig: 5.4e-04 mineig: 5.1e-06 con: 1.1e+02



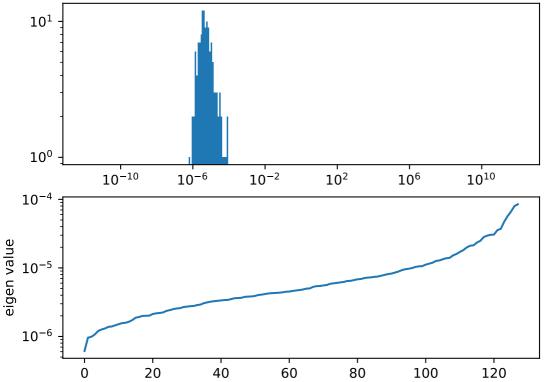
ep: 16 layer1.1.conv1 maxeig: 5.5e-05 mineig: 1.4e-06 con: 4.0e+01 × 10<sup>0</sup>



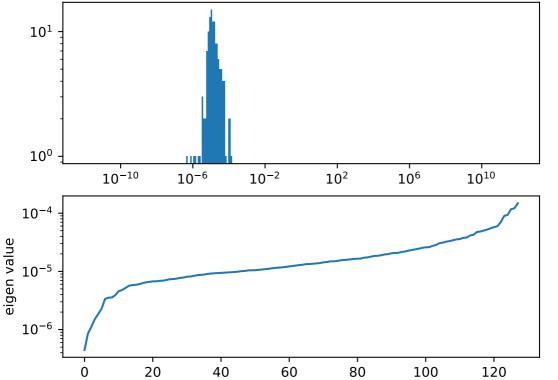
ep: 16 layer1.1.conv2 maxeig: 3.7e-04 mineig: 6.6e-06 con: 5.6e+01



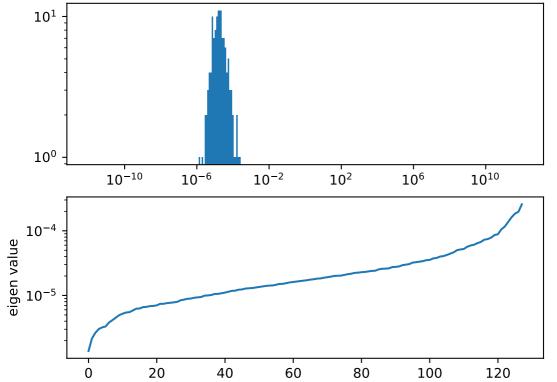
ep: 16 layer2.0.conv1 maxeig: 8.5e-05 mineig: 6.1e-07 con: 1.4e+02



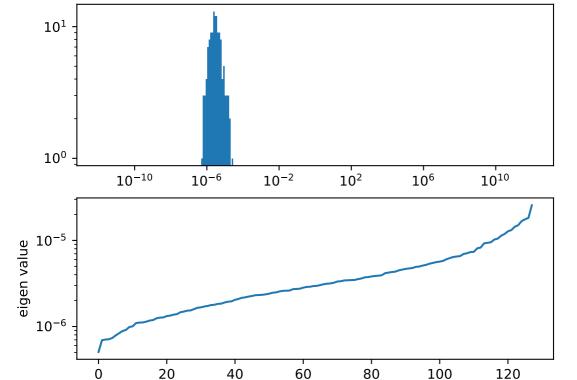
ep: 16 layer2.0.conv2 maxeig: 1.5e-04 mineig: 4.5e-07 con: 3.3e+02



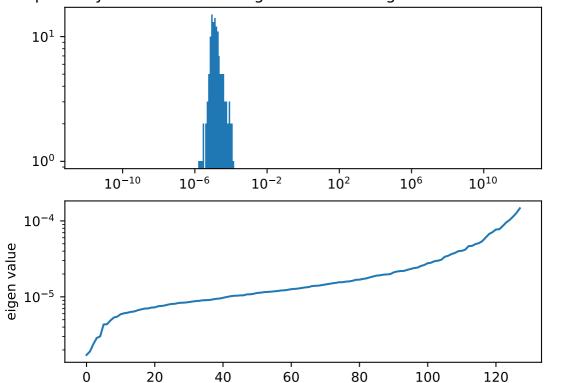
ep: 16 layer2.0.shortcut.0 maxeig: 2.6e-04 mineig: 1.4e-06 con: 1.9e+02



ep: 16 layer2.1.conv1 maxeig: 2.6e-05 mineig: 5.1e-07 con: 5.1e+01

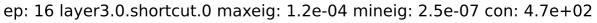


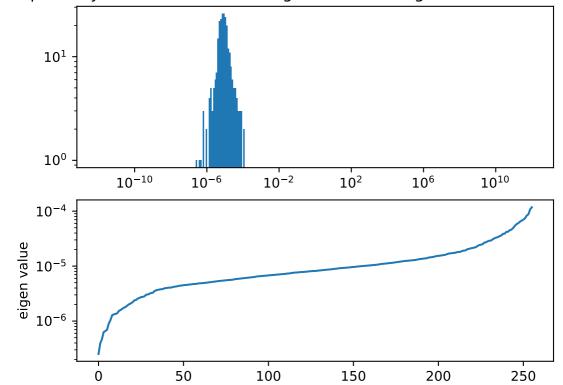
ep: 16 layer2.1.conv2 maxeig: 1.5e-04 mineig: 1.7e-06 con: 8.5e+01



ep: 16 layer3.0.conv1 maxeig: 4.6e-05 mineig: 2.1e-07 con: 2.2e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10<sup>-10</sup> 10-2 10<sup>6</sup>  $10^{-6}$ eigen value 10<sup>-5</sup> 10<sup>-5</sup> 250 50 100 150 200

ep: 16 layer3.0.conv2 maxeig: 1.3e-04 mineig: 1.9e-07 con: 6.8e+02 10<sup>1</sup> 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-6 10-2 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-5</sup> 250 50 100 150 200





ep: 16 layer3.1.conv1 maxeig: 3.2e-05 mineig: 3.1e-07 con: 1.0e+02 10<sup>1</sup> 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>-6</sup> 250 50 100 150 200

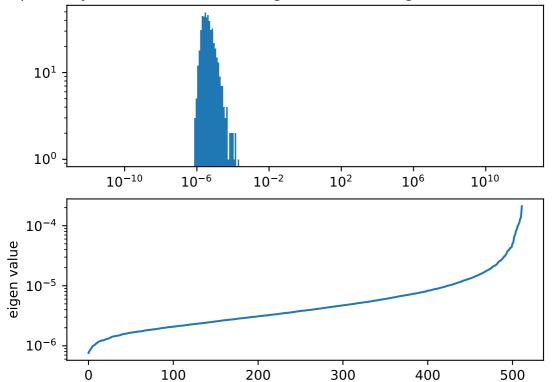
ep: 16 layer3.1.conv2 maxeig: 1.3e-04 mineig: 1.0e-06 con: 1.3e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-4}$ eigen value  $10^{-5}$  $10^{-6}$ 50 250 100 150 200

ep: 16 layer4.0.conv1 maxeig: 9.9e-05 mineig: 2.4e-07 con: 4.1e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-2 10<sup>6</sup>  $10^{-6}$  $10^{-4}$ eigen value 10<sup>-6</sup> 100 500 200 300 400

ep: 16 layer4.0.conv2 maxeig: 1.1e-04 mineig: 5.1e-07 con: 2.1e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-2 10<sup>6</sup>  $10^{-6}$  $10^{-4}$ 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

eigen value

ep: 16 layer4.0.shortcut.0 maxeig: 2.1e-04 mineig: 7.6e-07 con: 2.8e+02



ep: 16 layer4.1.conv1 maxeig: 9.7e-05 mineig: 1.2e-07 con: 7.8e+02  $10^{1}$ 10<sup>0</sup> 10 10 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$ e den value on value 10<sup>-5</sup>  $10^{-7}$ 100 500 200 300 400

ep: 16 layer4.1.conv2 maxeig: 1.8e-04 mineig: 3.5e-07 con: 5.2e+02  $10^{1}$ 10<sup>0</sup> 10 10 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

