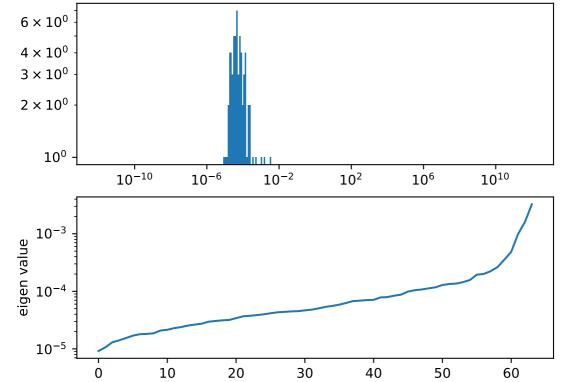
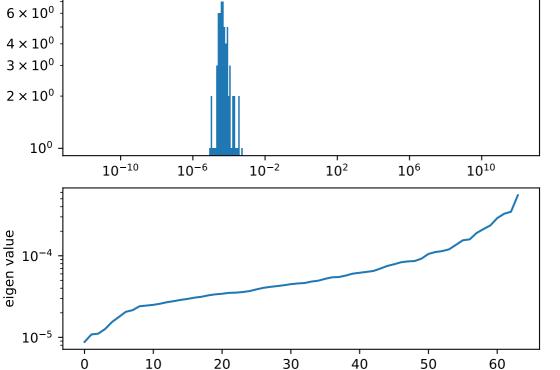
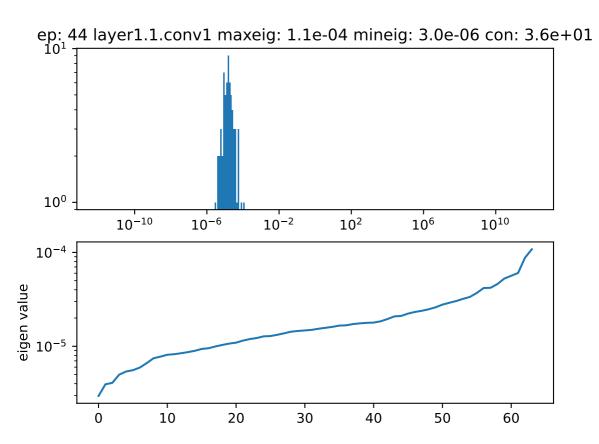
ep: 44 conv1 maxeig: 1.4e+00 mineig: 8.4e-08 con: 1.7e+07  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10 10 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup> 10<sup>0</sup>  $10^{-2}$ eigen value  $10^{-4}$  $10^{-6}$ 30 50 60 10 20 40

ep: 44 layer1.0.conv1 maxeig: 3.3e-03 mineig: 9.2e-06 con: 3.5e+02

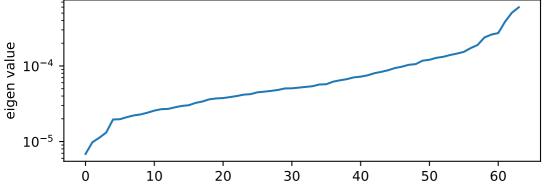


ep: 44 layer1.0.conv2 maxeig: 5.5e-04 mineig: 8.8e-06 con: 6.3e+01

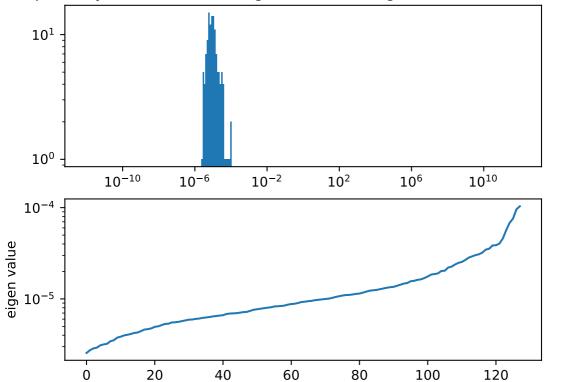




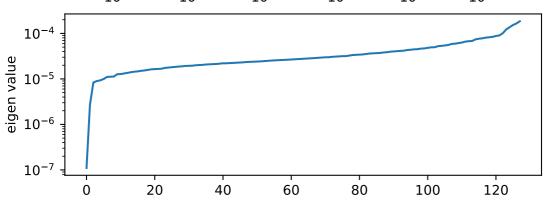
ep: 44 layer1.1.conv2 maxeig: 6.0e-04 mineig: 6.9e-06 con: 8.7e+01  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10 10 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>



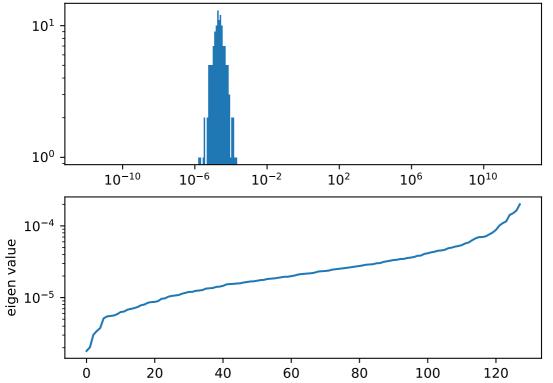
ep: 44 layer2.0.conv1 maxeig: 1.0e-04 mineig: 2.6e-06 con: 4.0e+01



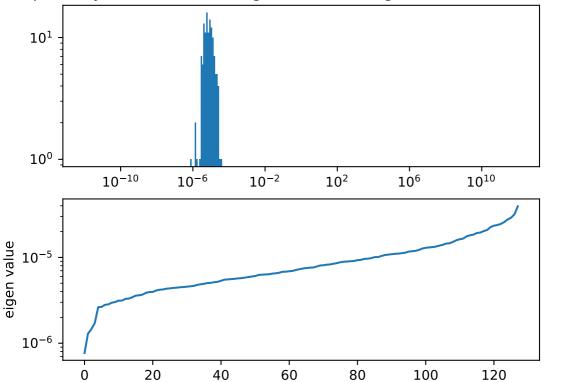
ep: 44 layer2.0.conv2 maxeig: 1.9e-04 mineig: 1.1e-07 con: 1.7e+03  $10^{1}$ 10<sup>0</sup> 10 10 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$ 



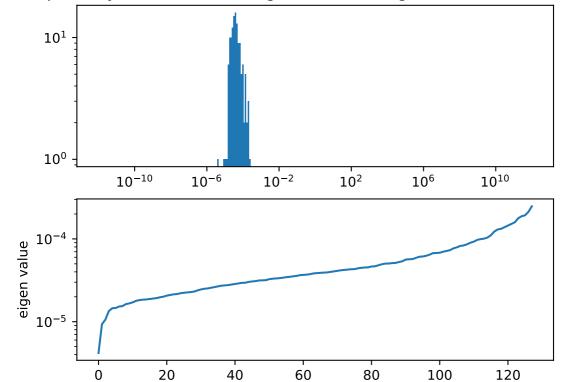
ep: 44 layer2.0.shortcut.0 maxeig: 2.0e-04 mineig: 1.8e-06 con: 1.1e+02

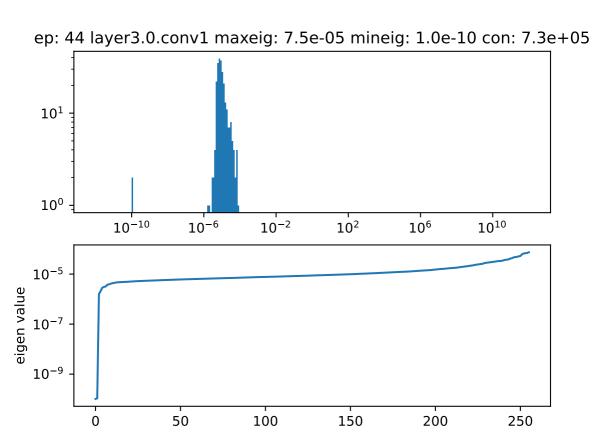


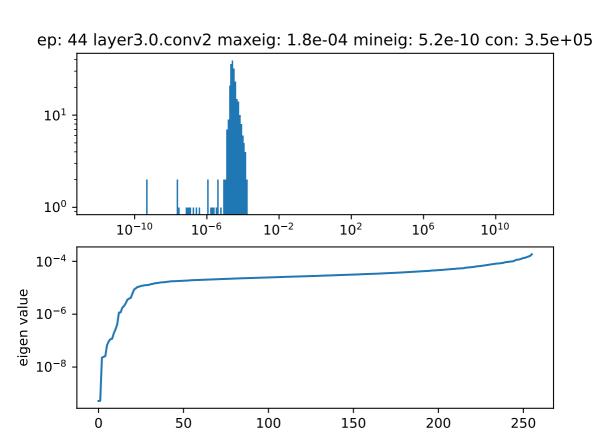
ep: 44 layer2.1.conv1 maxeig: 3.9e-05 mineig: 7.7e-07 con: 5.1e+01

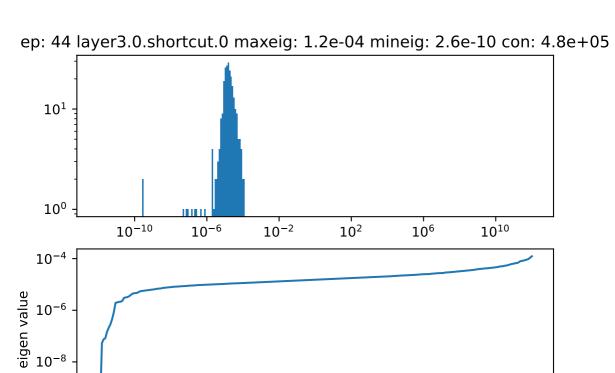


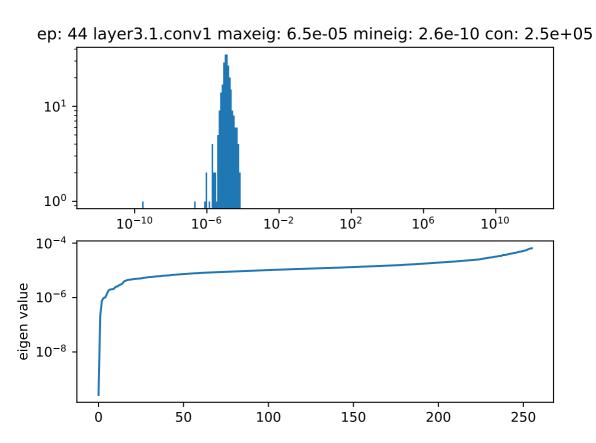
ep: 44 layer2.1.conv2 maxeig: 2.5e-04 mineig: 4.2e-06 con: 5.9e+01











ep: 44 layer3.1.conv2 maxeig: 3.1e-04 mineig: 1.8e-06 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>-4</sup> 10<sup>-5</sup> 250 50 100 150 200

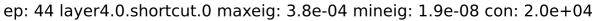
ep: 44 layer4.0.conv1 maxeig: 1.7e-04 mineig: 6.2e-07 con: 2.7e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10<sup>-10</sup> 10-6 10-2 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

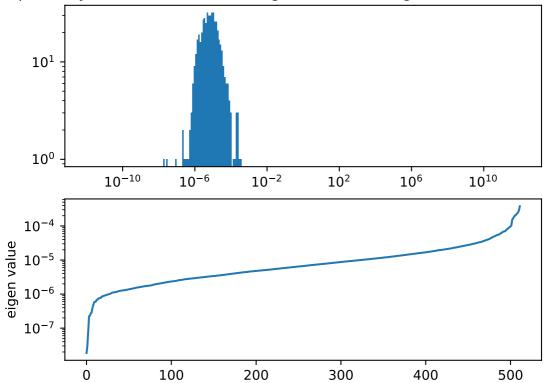
ep: 44 layer4.0.conv2 maxeig: 4.6e-04 mineig: 5.8e-08 con: 7.8e+03  $10^{1}$ 10<sup>0</sup> 10 10 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-6</sup>  $10^{-7}$ 100 500

200

300

400





ep: 44 layer4.1.conv1 maxeig: 1.7e-04 mineig: 6.1e-11 con: 2.8e+06 10<sup>1</sup> 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10-10  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-5}$  $10^{-7}$  $10^{-9}$ 100 400 500

200

300

eigen value

ep: 44 layer4.1.conv2 maxeig: 1.1e-03 mineig: 2.9e-08 con: 4.0e+04  $10^{1}$ 10<sup>0</sup> 10 10 10-10 10<sup>2</sup>  $10^{-6}$  $10^{-2}$ 10<sup>6</sup>  $10^{-3}$  $10^{-4}$ eigen value  $10^{-5}$  $10^{-6}$  $10^{-7}$ 100 500 200 300 400

