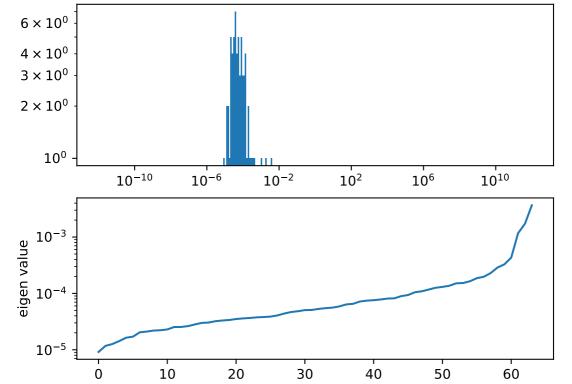
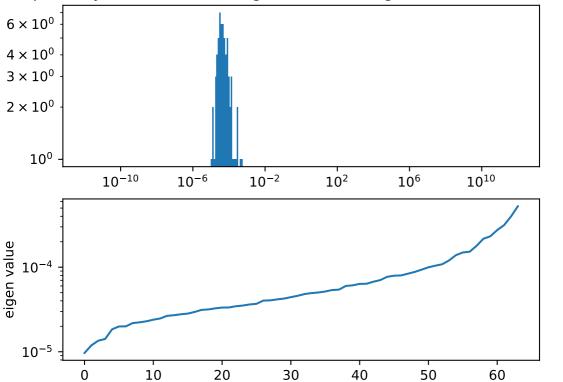
ep: 53 conv1 maxeig: 1.2e+00 mineig: 2.3e-09 con: 5.3e+08  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10 10  $10^{-10}$  $10^{-6}$  $10^{-2}$ 10<sup>6</sup> 10<sup>2</sup> 10°  $10^{-2}$  $\frac{9}{10^{-2}}$   $\frac{10^{-2}}{10^{-4}}$   $\frac{10^{-4}}{10^{-6}}$  $10^{-8}$ 50 60 10 20 30 40

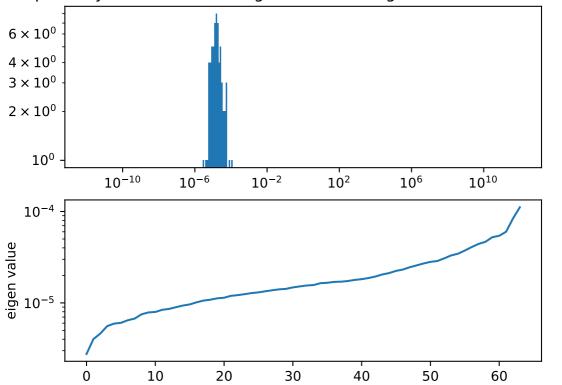
ep: 53 layer1.0.conv1 maxeig: 3.7e-03 mineig: 9.1e-06 con: 4.0e+02

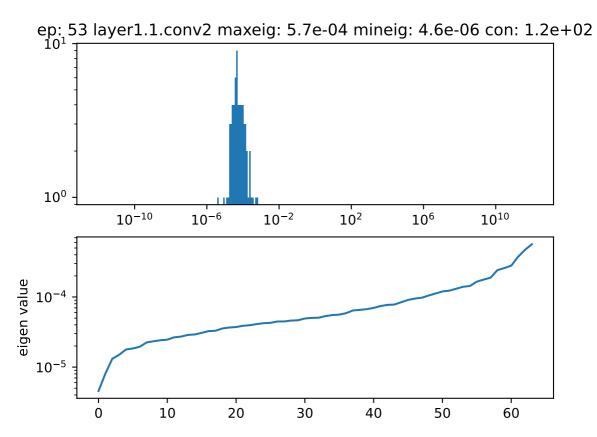


ep: 53 layer1.0.conv2 maxeig: 5.3e-04 mineig: 9.7e-06 con: 5.4e+01

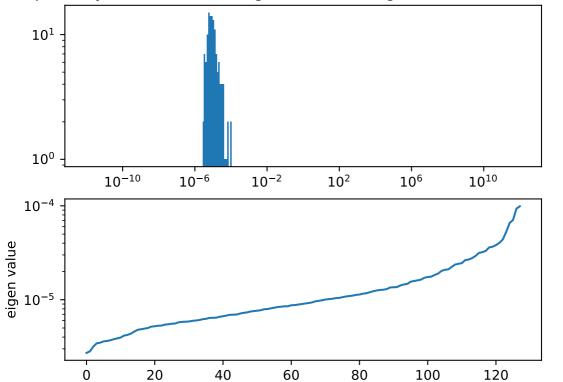


ep: 53 layer1.1.conv1 maxeig: 1.1e-04 mineig: 2.8e-06 con: 4.0e+01

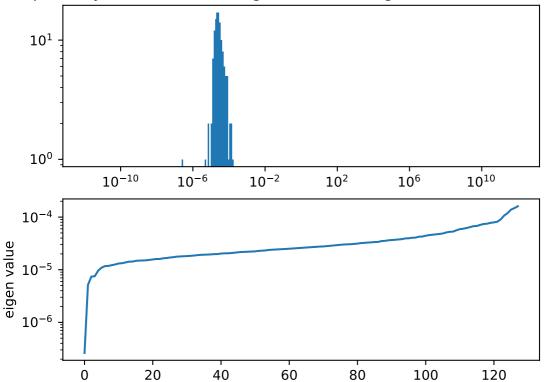




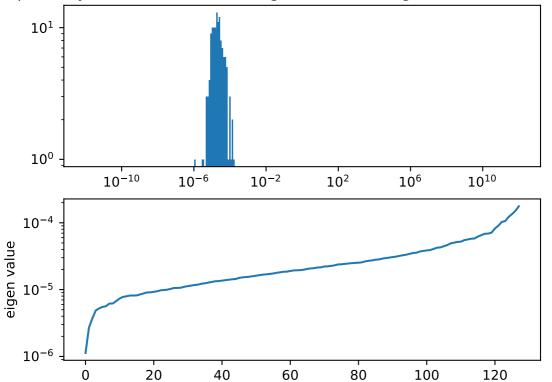
ep: 53 layer2.0.conv1 maxeig: 9.9e-05 mineig: 2.7e-06 con: 3.6e+01



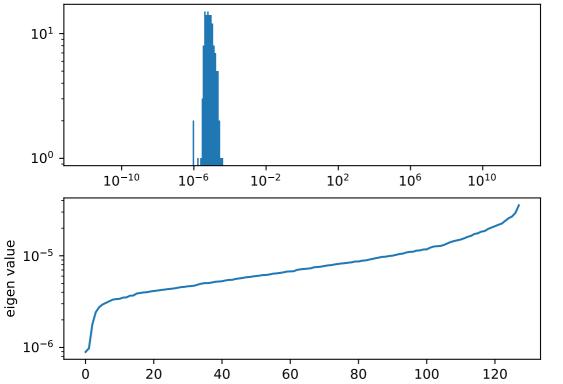
ep: 53 layer2.0.conv2 maxeig: 1.6e-04 mineig: 2.6e-07 con: 6.1e+02



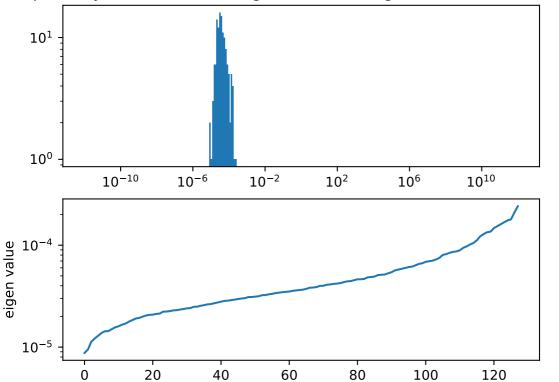
ep: 53 layer2.0.shortcut.0 maxeig: 1.8e-04 mineig: 1.1e-06 con: 1.6e+02



ep: 53 layer2.1.conv1 maxeig: 3.6e-05 mineig: 8.9e-07 con: 4.0e+01



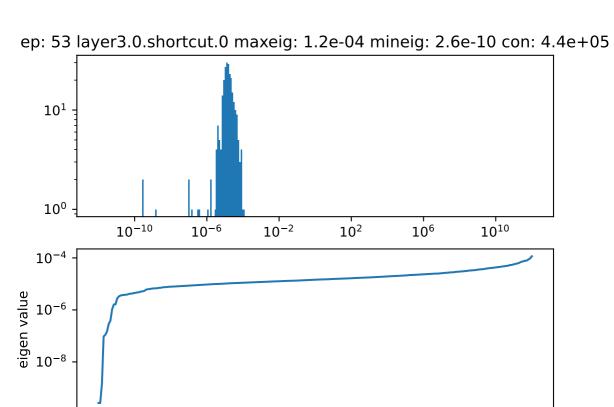
ep: 53 layer2.1.conv2 maxeig: 2.4e-04 mineig: 8.8e-06 con: 2.7e+01

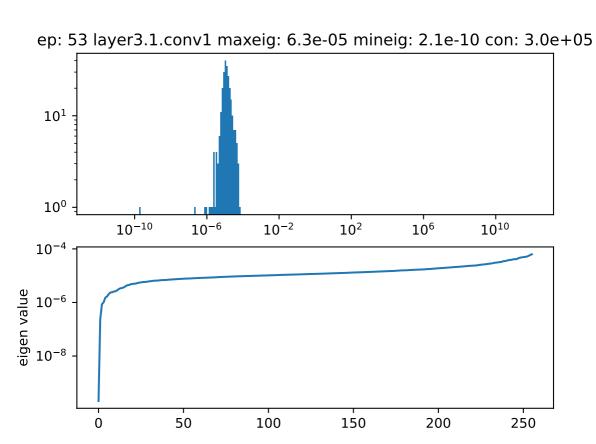


ep: 53 layer3.0.conv1 maxeig: 6.6e-05 mineig: 1.1e-10 con: 6.3e+05  $10^{1}$ 10<sup>0</sup> 1010 10-10 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$ 10<sup>-5</sup>  $10^{-9}$ 250 50 100 150 200

eigen value

ep: 53 layer3.0.conv2 maxeig: 1.6e-04 mineig: 5.3e-10 con: 3.0e+05 10<sup>1</sup> 10<sup>0</sup> 1010  $10^{-10}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$  $10^{-4}$ eigen value 10<sup>-8</sup> 250 50 100 150 200





ep: 53 layer3.1.conv2 maxeig: 3.0e-04 mineig: 2.5e-06 con: 1.2e+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> 250 50 100 150 200

ep: 53 layer4.0.conv1 maxeig: 1.7e-04 mineig: 9.3e-07 con: 1.8e+02 10<sup>1</sup> 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: 53 layer4.0.conv2 maxeig: 4.4e-04 mineig: 1.0e-08 con: 4.2e+04 10<sup>1</sup> 10<sup>0</sup> 10 10 10<sup>-10</sup>  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$  $10^{-5}$  $10^{-6}$  $10^{-7}$ 10-8

300

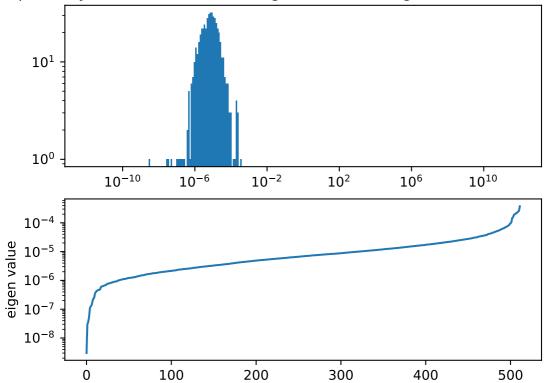
400

500

100

eigen value

ep: 53 <u>layer4.0.shortcut.0 maxeig: 3.8e-04 mineig: 3.0e-09 con: 1.2e+05</u>



ep: 53 layer4.1.conv1 maxeig: 1.7e-04 mineig: 4.2e-11 con: 4.1e+06 10<sup>1</sup> 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10<sup>-10</sup>  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-5}$ eigen value  $10^{-7}$  $10^{-9}$ 

300

400

500

100

ep: 53 layer4.1.conv2 maxeig: 1.2e-03 mineig: 2.0e-08 con: 6.0e+04  $10^{1}$ 10<sup>0</sup> 10 10  $10^{-10}$  $10^{-6}$  $10^{-2}$ 10<sup>2</sup> 10<sup>6</sup>  $10^{-3}$  $10^{-4}$ eigen value  $10^{-5}$  $10^{-6}$  $10^{-7}$ 

300

400

500

100

