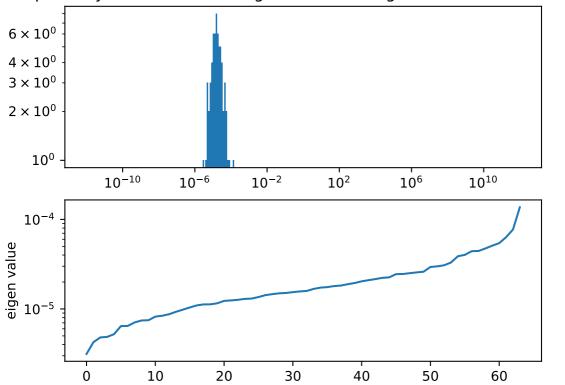


ep: 66 layer1.0.conv1 maxeig: 4.1e-03 mineig: 9.1e-06 con: 4.5e+02  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 1010 10-10 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ eigen value 10<sup>-3</sup> 10<sup>-5</sup> 50 60 10 20 30 40

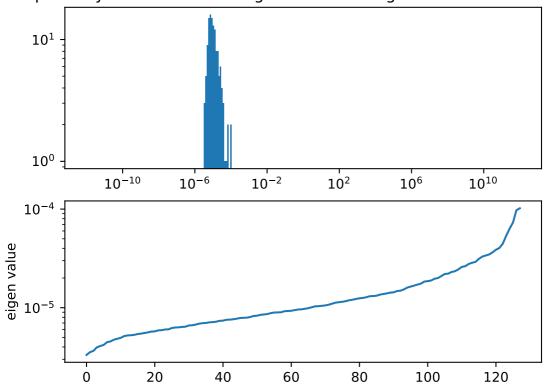
ep: 66 layer1.0.conv2 maxeig: 5.7e-04 mineig: 9.8e-06 con: 5.8e+01  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10 10 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup> eigen value  $10^{-4}$ 10-5 50 60 10 20 30 40

ep: 66 layer1.1.conv1 maxeig: 1.4e-04 mineig: 3.1e-06 con: 4.3e+01



ep: 66 layer1.1.conv2 maxeig: 6.0e-04 mineig: 6.5e-06 con: 9.3e+01  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10 10 10<sup>-10</sup>  $10^{-6}$  $10^{-2}$ 10<sup>2</sup> 10<sup>6</sup> eigen value  $10^{-4}$ 10<sup>-5</sup> 50 60 10 20 30 40

ep: 66 layer2.0.conv1 maxeig: 1.0e-04 mineig: 3.3e-06 con: 3.1e+01



ep: 66 layer2.0.conv2 maxeig: 1.6e-04 mineig: 1.1e-07 con: 1.4e+03  $10^{1}$ 10<sup>0</sup> 1010 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$ e de no-6 e de no-6  $10^{-7}$ 

60

80

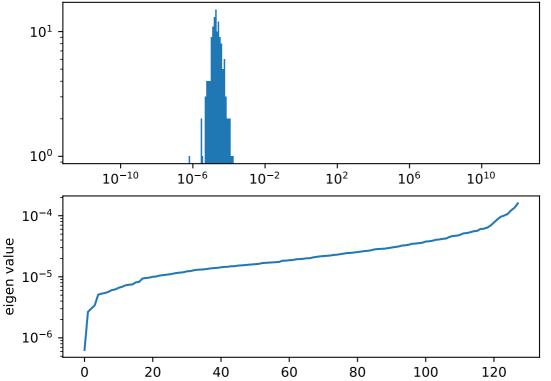
20

40

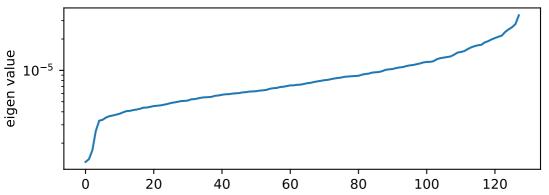
100

120

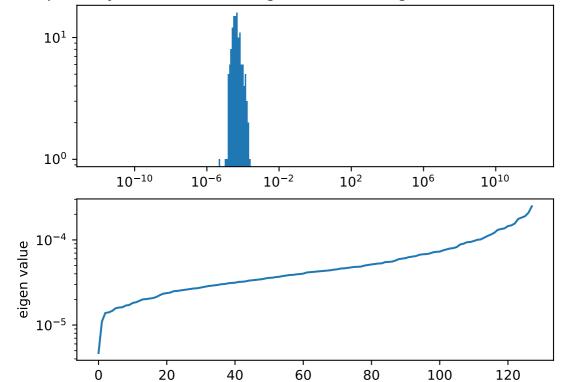
ep: 66 layer2.0.shortcut.0 maxeig: 1.6e-04 mineig: 6.3e-07 con: 2.5e+02



ep: 66 layer2.1.conv1 maxeig: 3.4e-05 mineig: 1.3e-06 con: 2.6e+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>

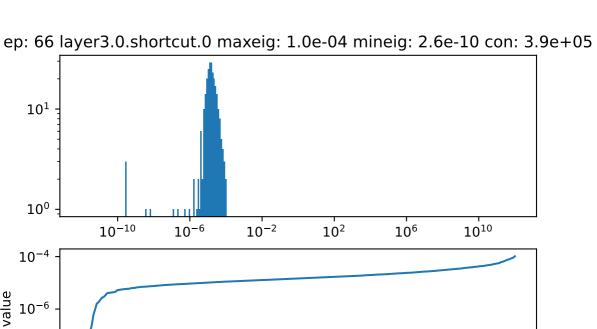


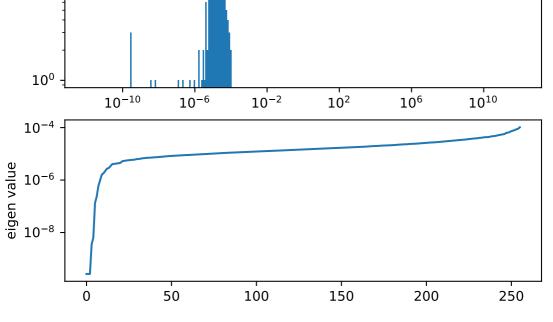
ep: 66 layer2.1.conv2 maxeig: 2.5e-04 mineig: 4.7e-06 con: 5.3e+01

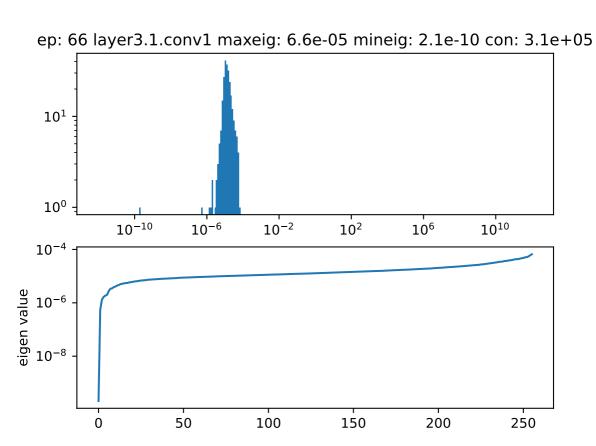


ep: 66 layer3.0.conv1 maxeig: 6.3e-05 mineig: 1.1e-10 con: 6.0e+05  $10^{1}$ 10<sup>0</sup> 1010 10-10 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$ 10<sup>-5</sup>  $10^{-7}$  $10^{-9}$ 250 50 100 150 200

ep: 66 layer3.0.conv2 maxeig: 1.6e-04 mineig: 4.2e-10 con: 3.8e+05 10<sup>1</sup> 10<sup>0</sup> 10-10 1010 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: 66 layer3.1.conv2 maxeig: 3.4e-04 mineig: 3.5e-06 con: 9.9e+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> eigen value  $10^{-4}$ 10<sup>-5</sup> 250

100

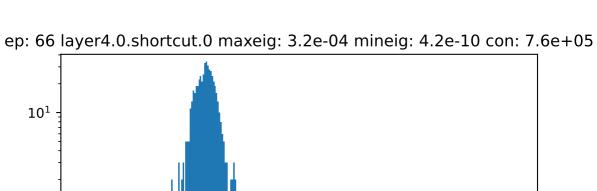
150

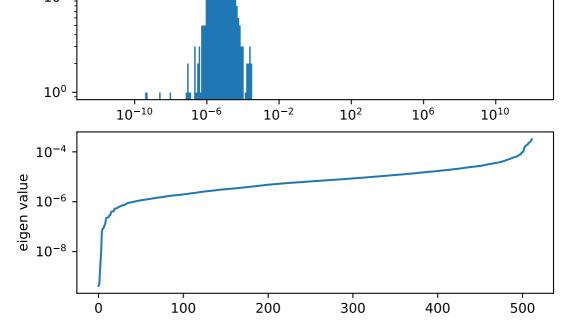
200

50

ep: 66 layer4.0.conv1 maxeig: 1.6e-04 mineig: 8.1e-07 con: 1.9e+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>  $10^{-6}$  $10^{-4}$ 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

ep: 66 layer4.0.conv2 maxeig: 4.3e-04 mineig: 1.1e-09 con: 4.1e+05  $10^{1}$ 10<sup>0</sup> 10<sup>2</sup> 1010  $10^{-10}$  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-4}$  $10^{-6}$ 10-8 100 500 200 300 400





ep: 66 layer4.1.conv1 maxeig: 1.9e-04 mineig: 6.8e-11 con: 2.8e+06  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup> 10<sup>-5</sup> 10-7  $10^{-9}$ 100 500 200 300 400

ep: 66 layer4.1.conv2 maxeig: 1.2e-03 mineig: 3.1e-09 con: 3.8e+05

