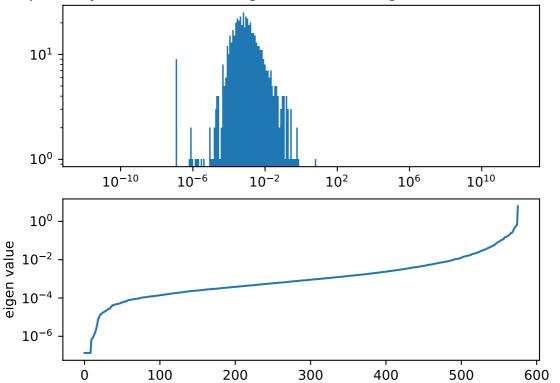
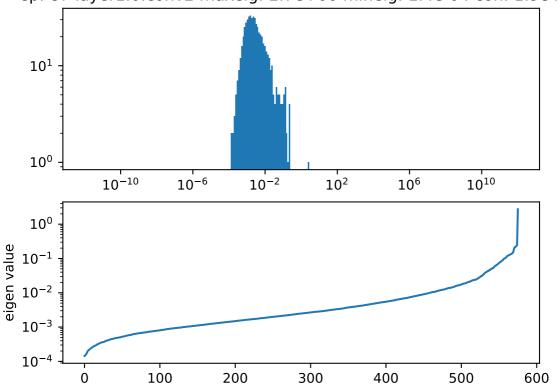
ep: 87 conv1 maxeig: 5.8e+01 mineig: 3.8e-03 con: 1.5e+04  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 1010 10-10 10-6 10-2 10<sup>2</sup> 10<sup>6</sup> 10<sup>1</sup> eigen value 10<sup>-1</sup>  $10^{-2}$ 10 15 25 20

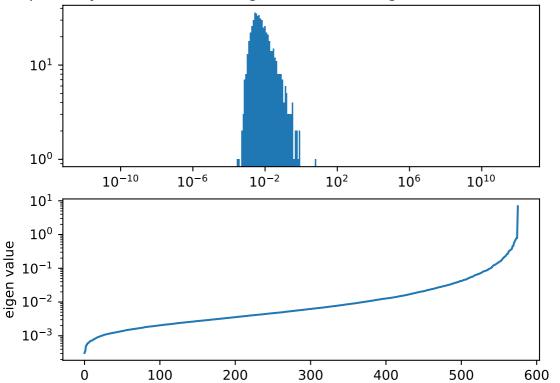
ep: 87 layer1.0.conv1 maxeig: 6.2e+00 mineig: 1.3e-07 con: 4.6e+07



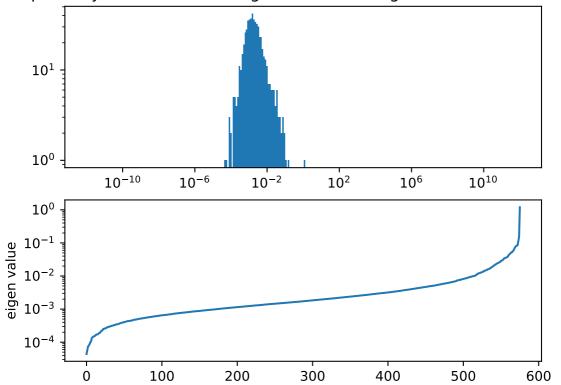
ep: 87 layer1.0.conv2 maxeig: 2.7e+00 mineig: 1.4e-04 con: 1.9e+04



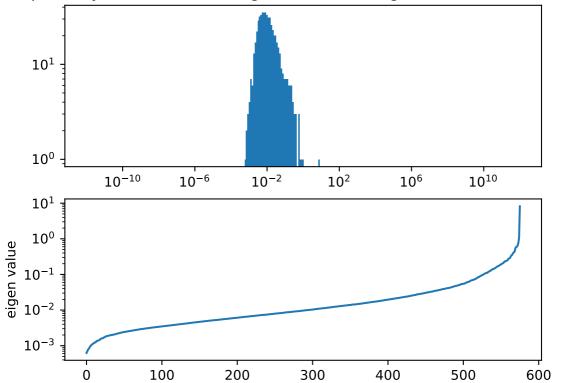
ep: 87 layer1.1.conv1 maxeig: 6.9e+00 mineig: 3.1e-04 con: 2.2e+04



ep: 87 layer1.1.conv2 maxeig: 1.2e+00 mineig: 4.4e-05 con: 2.7e+04

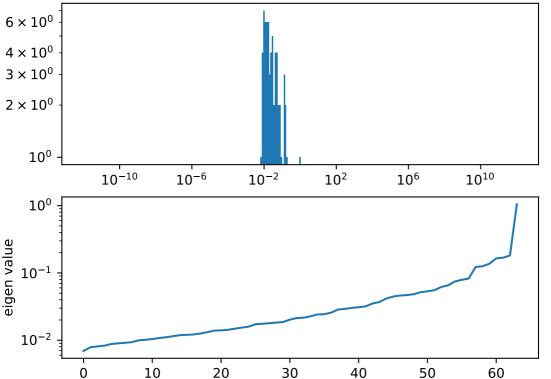


ep: 87 layer2.0.conv1 maxeig: 8.2e+00 mineig: 6.3e-04 con: 1.3e+04



ep: 87 layer2.0.conv2 maxeig: 2.6e+00 mineig: 4.7e-04 con: 5.5e+03  $10^{2}$  $10^{1}$ 10<sup>0</sup> 1010 10-10 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ 10<sup>2</sup> 10<sup>0</sup> e ide on solution of the solut  $10^{-3}$ 200 400 600 800 1000 1200

ep: 87 layer2.0.shortcut.0 maxeig: 1.0e+00 mineig: 6.9e-03 con: 1.5e+02



ep: 87 layer2.1.conv1 maxeig: 6.6e+00 mineig: 4.9e-05 con: 1.4e+05  $10^{2}$  $10^{1}$  $10^{0}$ 1010 10-10  $10^{-6}$  $10^{-2}$ 10<sup>6</sup> 10<sup>2</sup>  $10^{1}$ eiden value 10<sup>-1</sup> 200 400 600 800 1000 1200

ep: 87 layer2.1.conv2 maxeig: 3.9e-01 mineig: 8.5e-05 con: 4.5e+03  $10^{2}$  $10^{1}$ 10<sup>0</sup> 1010 10<sup>-10</sup> 10-2 10<sup>6</sup>  $10^{-6}$ 10<sup>2</sup>  $10^{-1}$ eigen value 10<sup>-2</sup> 10<sup>-3</sup>  $10^{-4}$ 200 400 600 800 1000 1200

ep: 87 layer3.0.conv1 maxeig: 6.9e+00 mineig: 8.9e-04 con: 7.7e+03  $10^{2}$  $10^{1}$  $10^{0}$ 1010 10-10 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ 10<sup>2</sup>  $10^{1}$ 10<sup>0</sup> eigen value 10<sup>-1</sup> 10<sup>-2</sup> 10<sup>-3</sup>

600

800

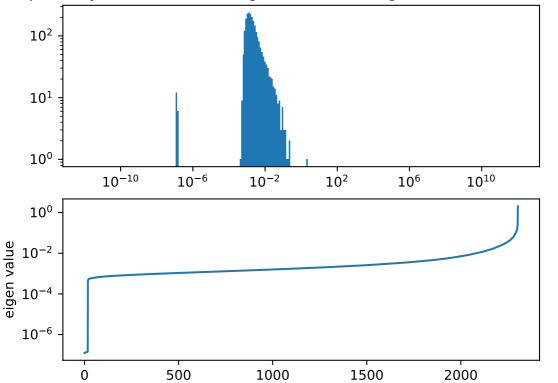
1000

1200

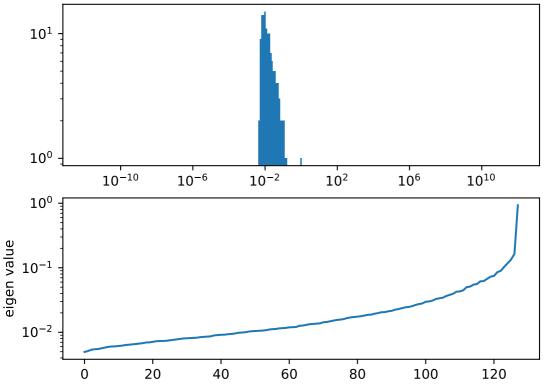
200

400

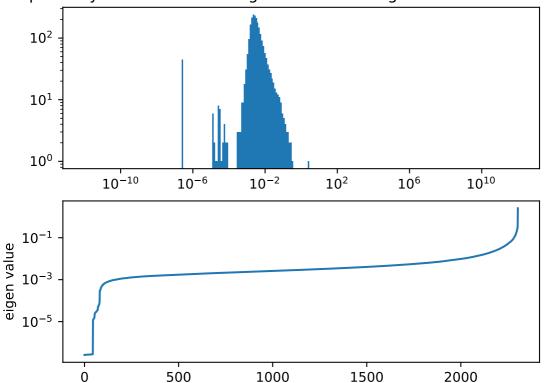
ep: 87 layer3.0.conv2 maxeig: 2.0e+00 mineig: 1.2e-07 con: 1.6e+07



ep: 87 layer3.0.shortcut.0 maxeig: 9.3e-01 mineig: 5.0e-03 con: 1.9e+02

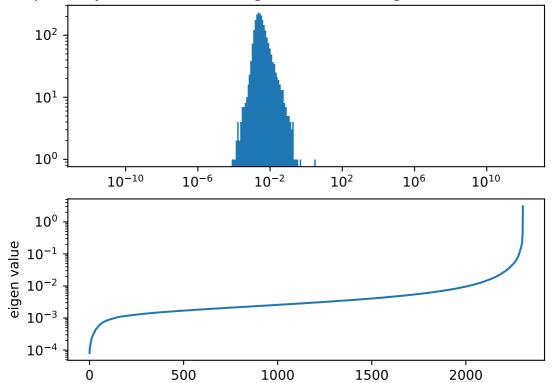


ep: 87 layer3.1.conv1 maxeig: 2.5e+00 mineig: 2.6e-07 con: 9.9e+06

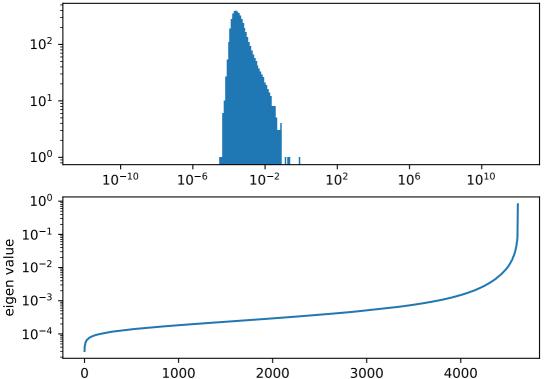


ep: 87 layer3.1.conv2 maxeig: 4.2e-01 mineig: 6.5e-08 con: 6.5e+06  $10^{2}$  $10^{1}$ 10<sup>0</sup> 1010  $10^{-10}$  $10^{-6}$  $10^{-2}$ 10<sup>2</sup> 10<sup>6</sup> eigen value  $10^{-6}$ 500 1000 1500 2000

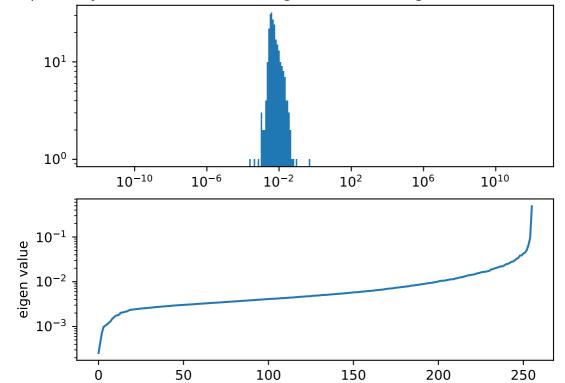
ep: 87 layer4.0.conv1 maxeig: 3.1e+00 mineig: 8.2e-05 con: 3.8e+04



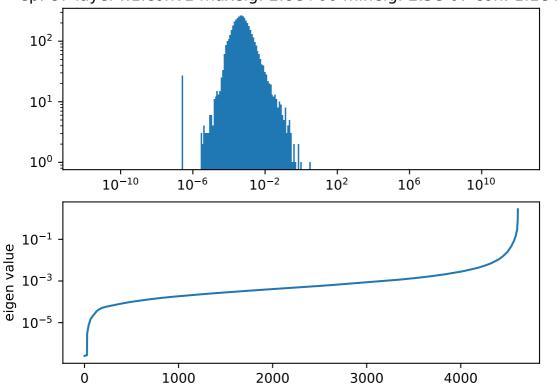
ep: 87 layer4.0.conv2 maxeig: 8.1e-01 mineig: 3.1e-05 con: 2.6e+04



ep: 87 | layer4.0.shortcut.0 maxeig: 4.9e-01 mineig: 2.6e-04 con: 1.9e+03



ep: 87 layer4.1.conv1 maxeig: 2.8e+00 mineig: 2.5e-07 con: 1.1e+07



ep: 87 layer4.1.conv2 maxeig: 3.2e+00 mineig: -6.5e-08 con: 1.4e+10  $10^{3}$ 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10-10 1010  $10^{-6}$  $10^{-2}$ 10<sup>6</sup> 10<sup>2</sup> 10<sup>0</sup>  $10^{-2}$ eigen value  $10^{-4}$  $10^{-6}$  $10^{-8}$ 

2000

3000

4000

1000

