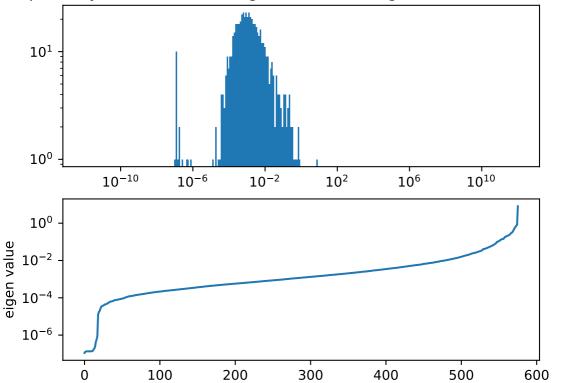
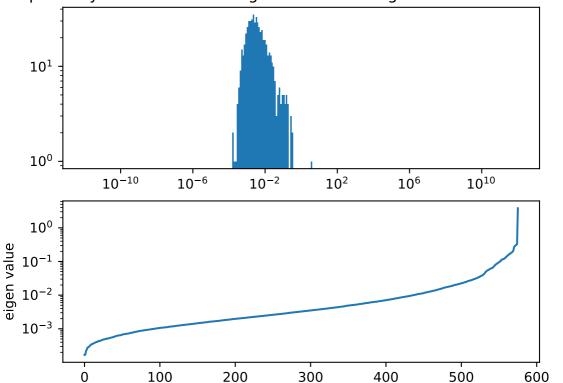
ep: 73 conv1 maxeig: 5.8e+01 mineig: 3.8e-03 con: 1.5e+04  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 1010 10-10 10-6 10-2 10<sup>2</sup> 10<sup>6</sup> 10<sup>1</sup> eigen value 10<sup>-1</sup>  $10^{-2}$ 10 15 25 20

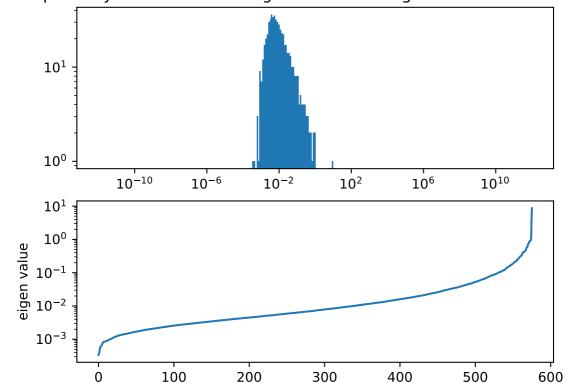
ep: 73 layer1.0.conv1 maxeig: 8.1e+00 mineig: 1.1e-07 con: 7.3e+07



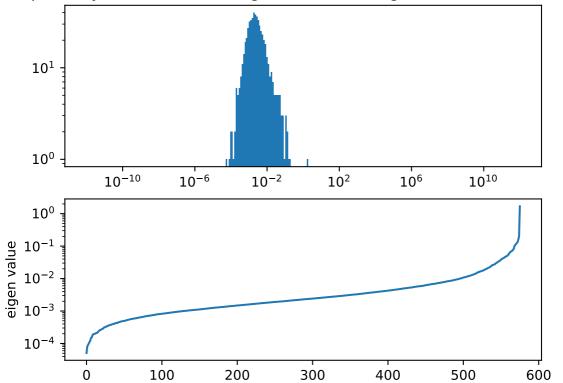
ep: 73 layer1.0.conv2 maxeig: 3.8e+00 mineig: 1.7e-04 con: 2.3e+04



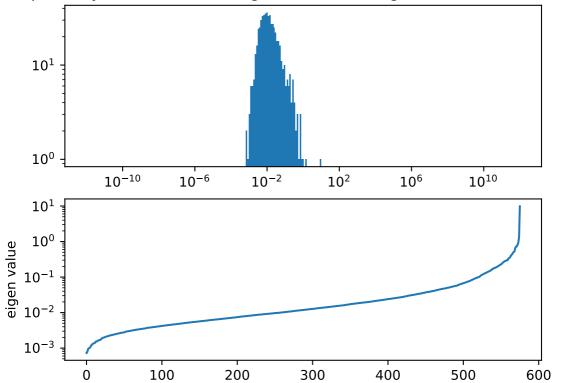
ep: 73 layer1.1.conv1 maxeig: 8.6e+00 mineig: 3.4e-04 con: 2.6e+04



ep: 73 layer1.1.conv2 maxeig: 1.7e+00 mineig: 5.1e-05 con: 3.3e+04

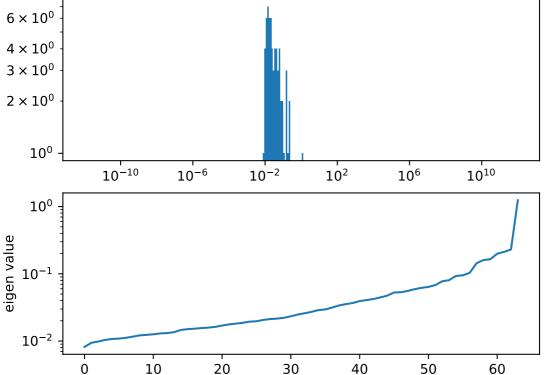


ep: 73 layer2.0.conv1 maxeig: 9.9e+00 mineig: 7.3e-04 con: 1.3e+04



ep: 73 layer2.0.conv2 maxeig: 3.1e+00 mineig: 5.3e-04 con: 5.8e+03  $10^{2}$  $10^{1}$ 10<sup>0</sup> 1010 10-10  $10^{-2}$ 10<sup>6</sup>  $10^{-6}$ 10<sup>2</sup> 10<sup>0</sup> eigen value 10<sup>-2</sup> 10<sup>-3</sup> 200 400 600 800 1000 1200

ep: 73 layer2.0.shortcut.0 maxeig: 1.2e+00 mineig: 8.2e-03 con: 1.5e+02



ep: 73 layer2.1.conv1 maxeig: 8.5e+00 mineig: 1.0e-04 con: 8.3e+04  $10^{2}$  $10^{1}$  $10^{0}$ 1010 10-10 10-2  $10^{-6}$ 10<sup>2</sup> 10<sup>6</sup>  $10^{1}$ eigen value  $10^{-1}$  $10^{-3}$ 200 400 600 800 1000 1200

ep: 73 layer2.1.conv2 maxeig: 4.8e-01 mineig: 6.8e-05 con: 7.1e+03 10<sup>2</sup>  $10^{1}$ 10<sup>0</sup> 1010 10-10 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ 10<sup>2</sup>  $10^{-1}$ egen 10-3  $10^{-4}$ 200 400 600 800 1000 1200

ep: 73 layer3.0.conv1 maxeig: 8.5e+00 mineig: 1.2e-03 con: 7.3e+03  $10^{2}$  $10^{1}$  $10^{0}$ 1010 10-10 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ 10<sup>2</sup>  $10^{1}$ eigen value 10 10<sup>-2</sup> 10<sup>0</sup> 10<sup>-3</sup> 200 400 600 800 1000 1200

ep: 73 layer3.0.conv2 maxeig: 2.4e+00 mineig: 1.2e-07 con: 2.0e+07 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 1010  $10^{-10}$  $10^{-6}$  $10^{-2}$ 10<sup>2</sup> 10<sup>6</sup> 10<sup>0</sup> eigen value 10-2  $10^{-4}$  $10^{-6}$ 

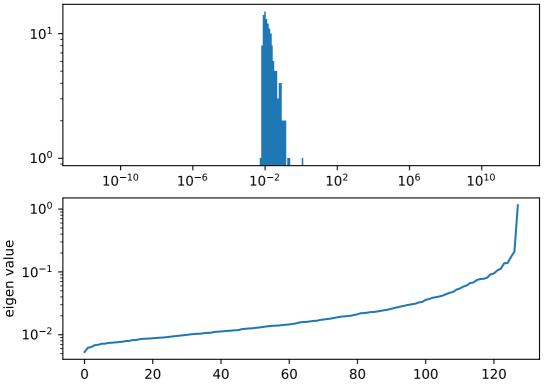
1000

1500

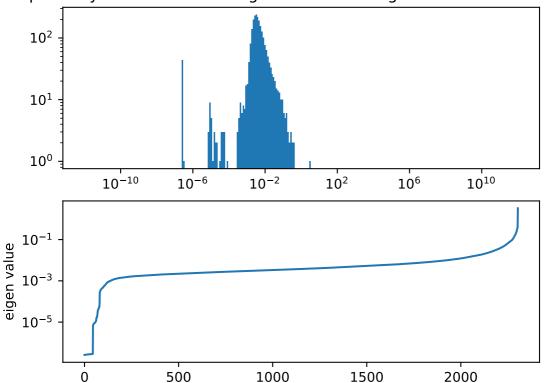
2000

500

ep: 73 layer3.0.shortcut.0 maxeig: 1.1e+00 mineig: 5.3e-03 con: 2.2e+02

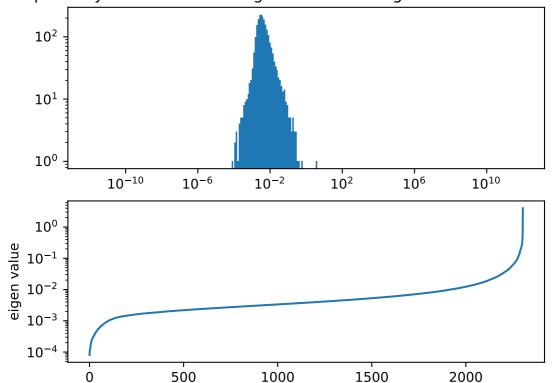


ep: 73 layer3.1.conv1 maxeig: 3.3e+00 mineig: 2.6e-07 con: 1.3e+07

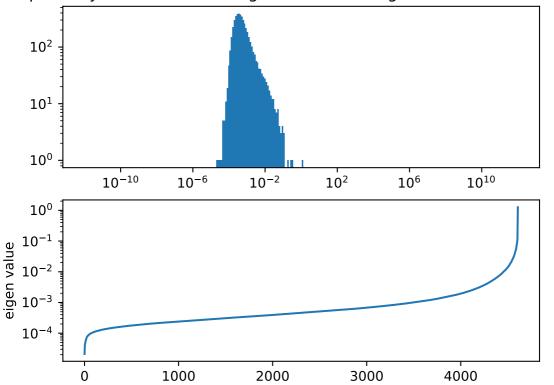


ep: 73 layer3.1.conv2 maxeig: 5.5e-01 mineig: 8.8e-08 con: 6.3e+06 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10-10 1010  $10^{-6}$ 10<sup>6</sup>  $10^{-2}$ 10<sup>2</sup> 10<sup>0</sup>  $10^{-2}$ eigen value  $10^{-4}$  $10^{-6}$ 500 1000 1500 2000

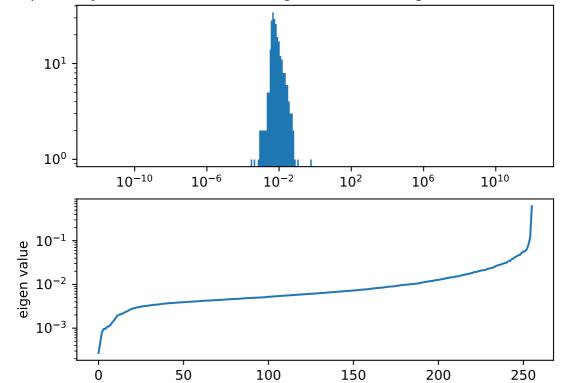
ep: 73 layer4.0.conv1 maxeig: 4.0e+00 mineig: 8.1e-05 con: 4.9e+04



ep: 73 layer4.0.conv2 maxeig: 1.3e+00 mineig: 2.1e-05 con: 6.0e+04



ep: 73 layer4.0.shortcut.0 maxeig: 6.1e-01 mineig: 2.7e-04 con: 2.3e+03



ep: 73 layer4.1.conv1 maxeig: 4.3e+00 mineig: 5.0e-07 con: 8.5e+06

