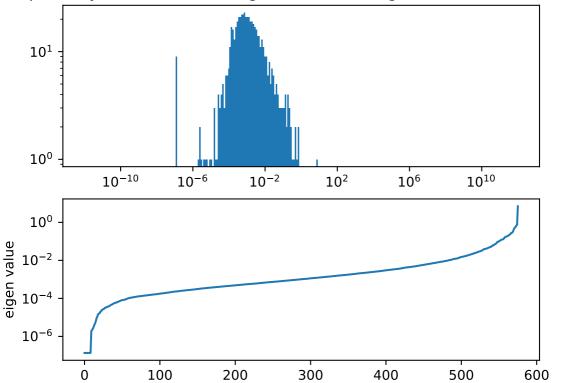
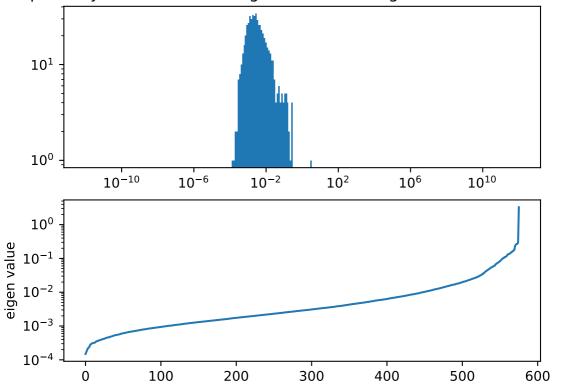
ep: 79 conv1 maxeig: 5.8e+01 mineig: 3.8e-03 con: 1.5e+04  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10-6 10-2 10<sup>2</sup> 10<sup>6</sup> 10<sup>1</sup> eigen value 10<sup>-1</sup>  $10^{-2}$ 10 15 25 20

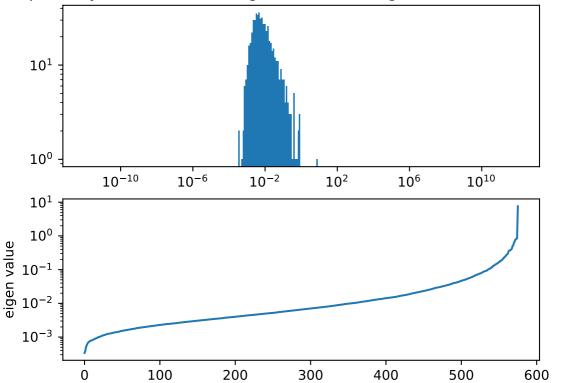
ep: 79 layer1.0.conv1 maxeig: 7.0e+00 mineig: 1.3e-07 con: 5.2e+07



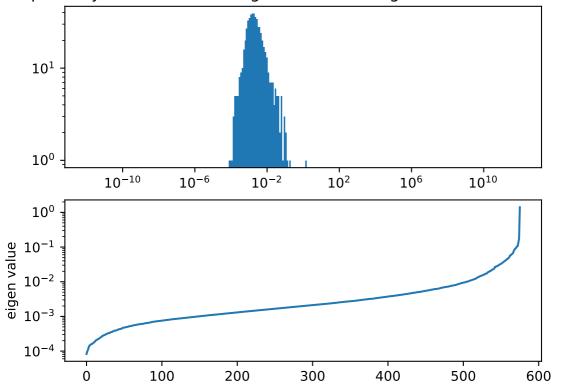
ep: 79 layer1.0.conv2 maxeig: 3.3e+00 mineig: 1.5e-04 con: 2.2e+04



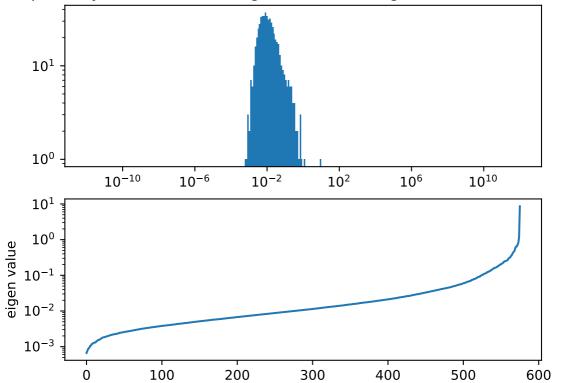
ep: 79 layer1.1.conv1 maxeig: 7.6e+00 mineig: 3.4e-04 con: 2.2e+04



ep: 79 layer1.1.conv2 maxeig: 1.4e+00 mineig: 8.3e-05 con: 1.7e+04

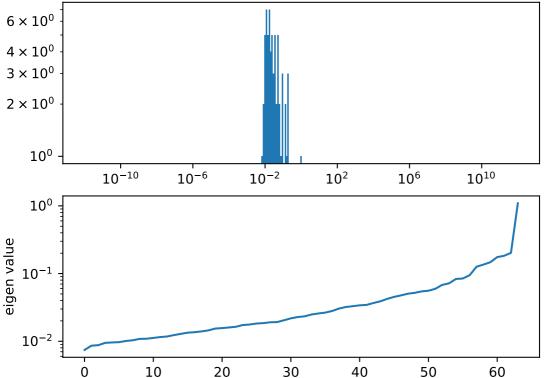


ep: 79 layer2.0.conv1 maxeig: 8.6e+00 mineig: 6.7e-04 con: 1.3e+04



ep: 79 layer2.0.conv2 maxeig: 2.8e+00 mineig: 5.7e-04 con: 4.9e+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> 10<sup>-3</sup> 200 400 600 800 1000 1200

ep: 79 layer2.0.shortcut.0 maxeig: 1.1e+00 mineig: 7.4e-03 con: 1.5e+02

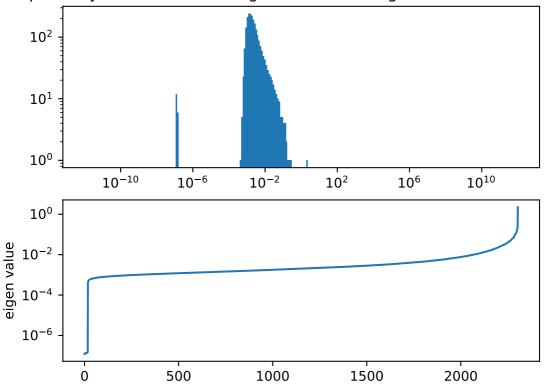


ep: 79 layer2.1.conv1 maxeig: 7.5e+00 mineig: 4.6e-05 con: 1.6e+05  $10^{2}$  $10^{1}$  $10^{0}$ 1010 10-10  $10^{-6}$ 10-2 10<sup>6</sup> 10<sup>2</sup>  $10^{1}$ eiden 10<sup>-1</sup> 10<sup>-3</sup> 200 400 600 800 1000 1200

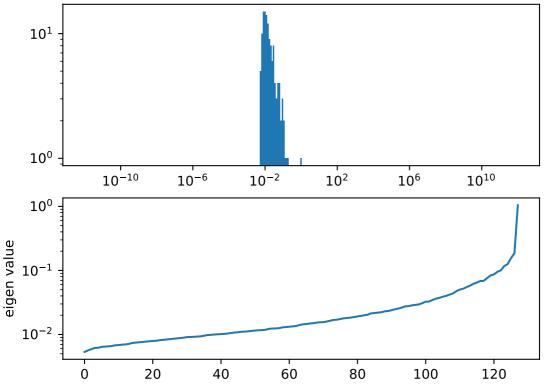
ep: 79 layer2.1.conv2 maxeig: 4.3e-01 mineig: 8.7e-05 con: 4.9e+03  $10^{2}$  $10^{1}$ 10<sup>0</sup> 1010 10<sup>-10</sup> 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ 10<sup>2</sup>  $10^{-1}$ eiden value 10<sup>-2</sup> 10<sup>-3</sup> 10-2  $10^{-4}$ 200 400 600 800 1000 1200

ep: 79 layer3.0.conv1 maxeig: 7.7e+00 mineig: 1.2e-03 con: 6.6e+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> e 10° e 10<sup>-1</sup> e 10<sup>-2</sup> 10<sup>-3</sup> 200 400 600 800 1000 1200

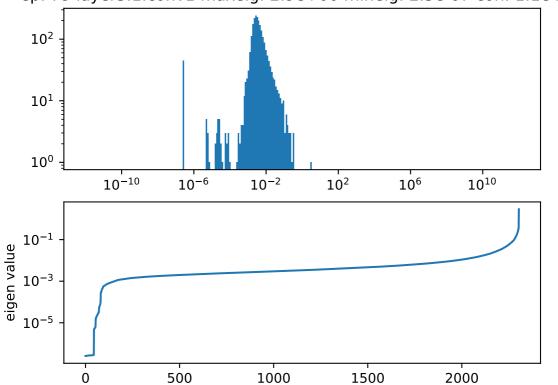
ep: 79 layer3.0.conv2 maxeig: 2.2e+00 mineig: 1.2e-07 con: 1.8e+07



ep: 79 layer3.0.shortcut.0 maxeig: 1.0e+00 mineig: 5.3e-03 con: 2.0e+02

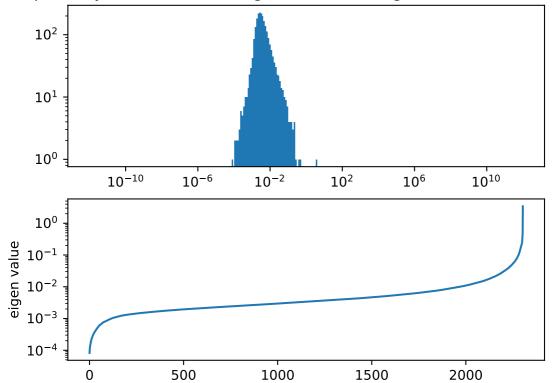


ep: 79 layer3.1.conv1 maxeig: 2.9e+00 mineig: 2.5e-07 con: 1.1e+07

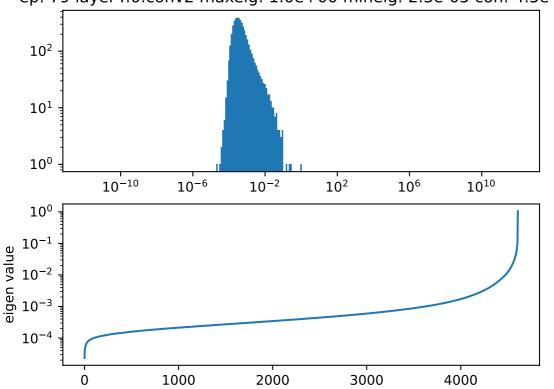


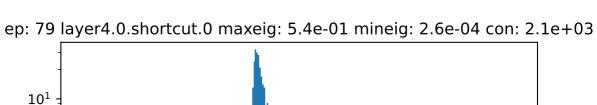
ep: 79 layer3.1.conv2 maxeig: 4.9e-01 mineig: 6.1e-08 con: 8.0e+06  $10^{2}$ 10<sup>1</sup> 10<sup>0</sup> 1010 10-10  $10^{-6}$ 10<sup>2</sup> 10<sup>6</sup>  $10^{-2}$ 10<sup>0</sup> 10-2 eigen value  $10^{-4}$  $10^{-6}$ 500 1000 1500 2000

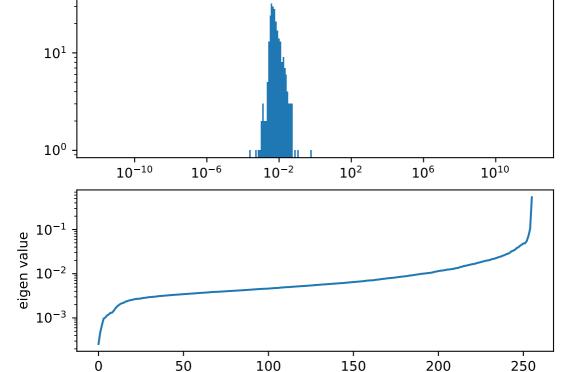
ep: 79 layer4.0.conv1 maxeig: 3.4e+00 mineig: 8.2e-05 con: 4.2e+04



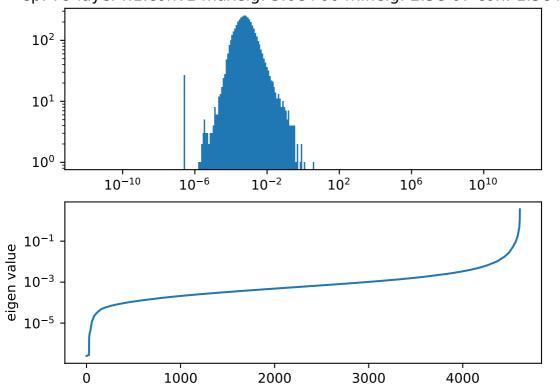
ep: 79 layer4.0.conv2 maxeig: 1.0e+00 mineig: 2.3e-05 con: 4.5e+04







ep: 79 layer4.1.conv1 maxeig: 3.6e+00 mineig: 2.5e-07 con: 1.5e+07



ep: 79 layer4.1.conv2 maxeig: 4.1e+00 mineig: -5.2e-08 con: 2.9e+10

