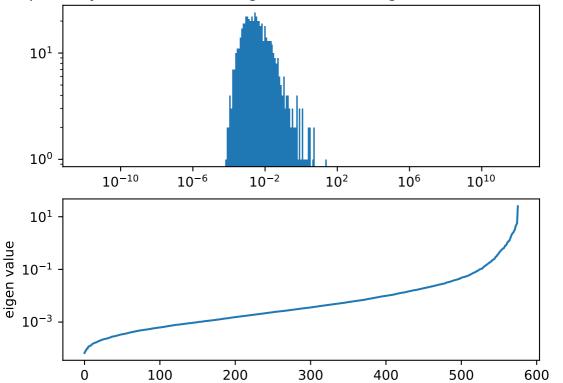
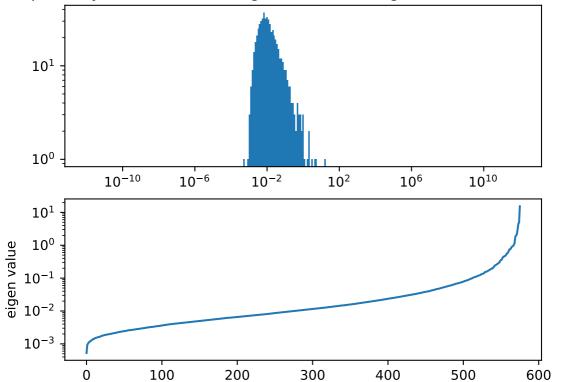
ep: 10 conv1 maxeig: 5.7e+01 mineig: 3.7e-03 con: 1.5e+04  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$ 10<sup>1</sup> eigen value 10<sup>-1</sup>  $10^{-2}$ 10 15 25 20

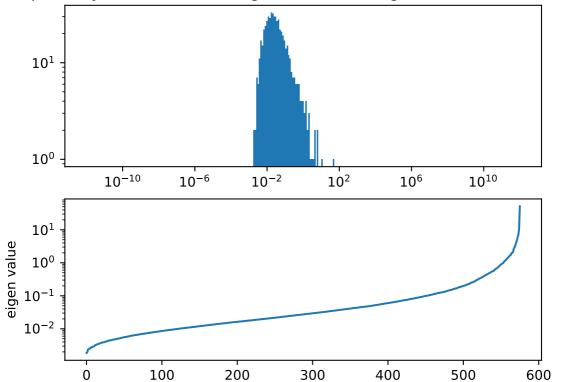
ep: 10 layer1.0.conv1 maxeig: 2.5e+01 mineig: 6.7e-05 con: 3.7e+05



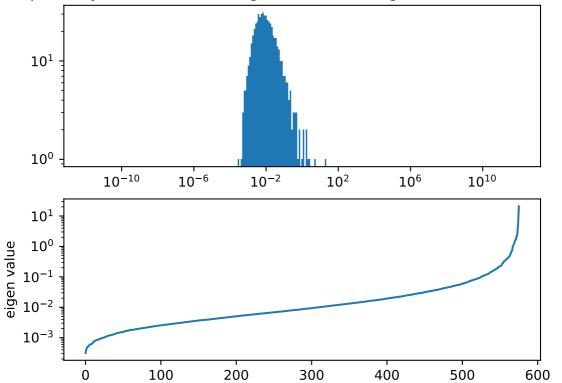
ep: 10 layer1.0.conv2 maxeig: 1.5e+01 mineig: 5.3e-04 con: 2.9e+04



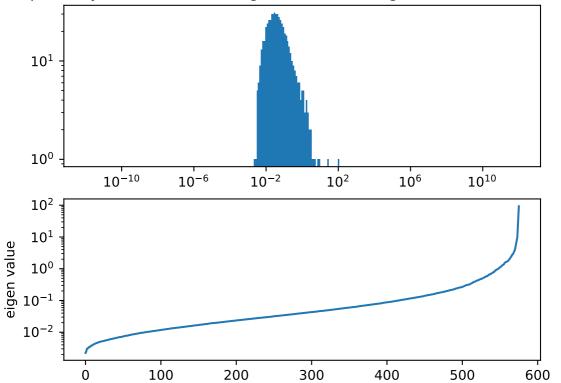
ep: 10 layer1.1.conv1 maxeig: 5.2e+01 mineig: 1.9e-03 con: 2.8e+04



ep: 10 layer1.1.conv2 maxeig: 2.1e+01 mineig: 3.2e-04 con: 6.6e+04



ep: 10 layer2.0.conv1 maxeig: 9.3e+01 mineig: 2.2e-03 con: 4.2e+04



ep: 10 layer2.0.conv2 maxeig: 3.3e+01 mineig: 1.1e-03 con: 3.0e+04  $10^{1}$ 10<sup>0</sup> 1010 10-10  $10^{-2}$ 10<sup>6</sup>  $10^{-6}$ 10<sup>2</sup>  $10^{1}$ eigen value 10<sup>0</sup>  $10^{-1}$  $10^{-2}$ 10<sup>-3</sup> 200 400 600 800 1000 1200

ep: 10 layer2.0.shortcut.0 maxeig: 1.2e+01 mineig: 2.2e-02 con: 5.5e+02  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 1010 10-10  $10^{-6}$ 10<sup>6</sup>  $10^{-2}$ 10<sup>2</sup> 10<sup>1</sup> eigen value 10<sup>-1</sup>

30

40

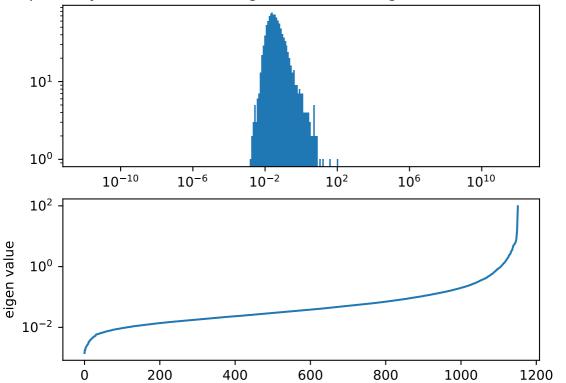
10

20

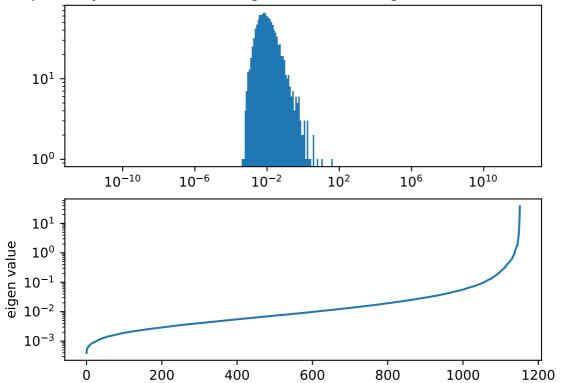
50

60

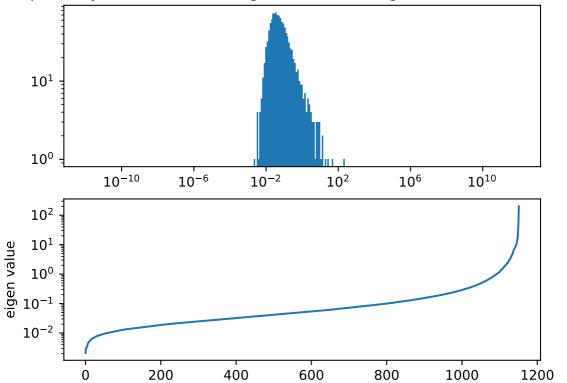
ep: 10 layer2.1.conv1 maxeig: 9.7e+01 mineig: 1.4e-03 con: 6.7e+04



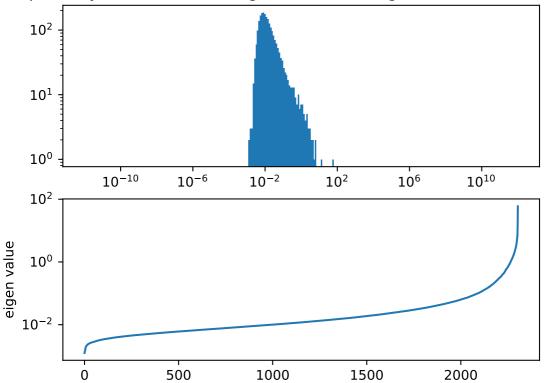
ep: 10 layer2.1.conv2 maxeig: 3.8e+01 mineig: 4.0e-04 con: 9.6e+04



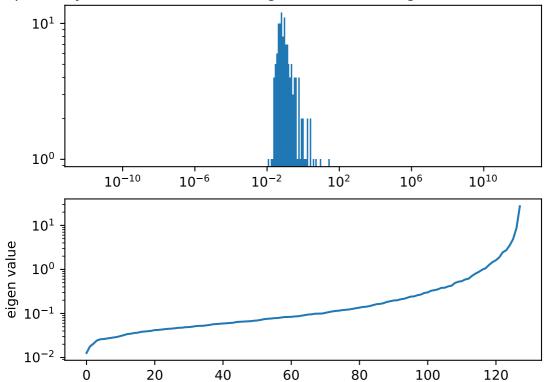
ep: 10 layer3.0.conv1 maxeig: 2.0e+02 mineig: 2.1e-03 con: 9.6e+04



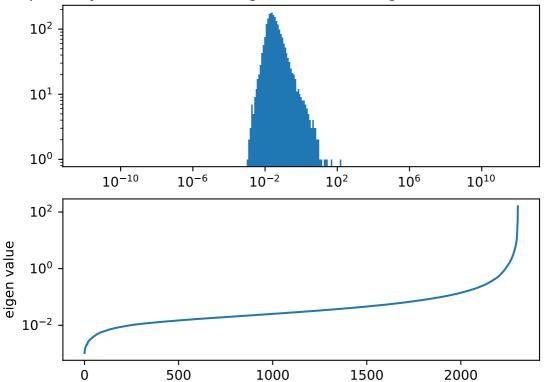
ep: 10 layer3.0.conv2 maxeig: 6.0e+01 mineig: 1.3e-03 con: 4.7e+04



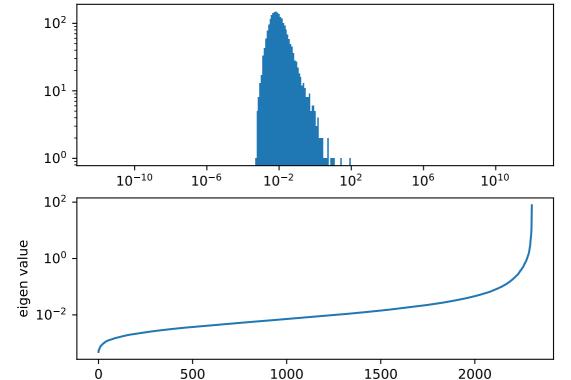
ep: 10 layer3.0.shortcut.0 maxeig: 2.7e+01 mineig: 1.3e-02 con: 2.1e+03



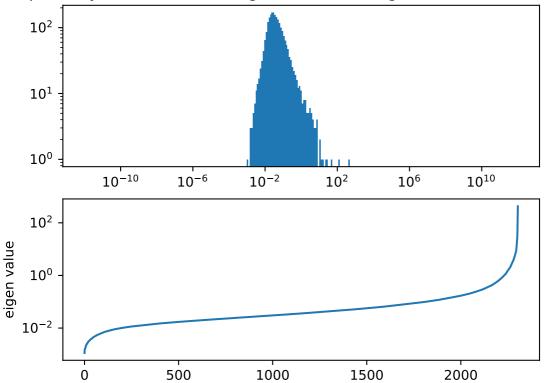
ep: 10 layer3.1.conv1 maxeig: 1.6e+02 mineig: 1.1e-03 con: 1.5e+05



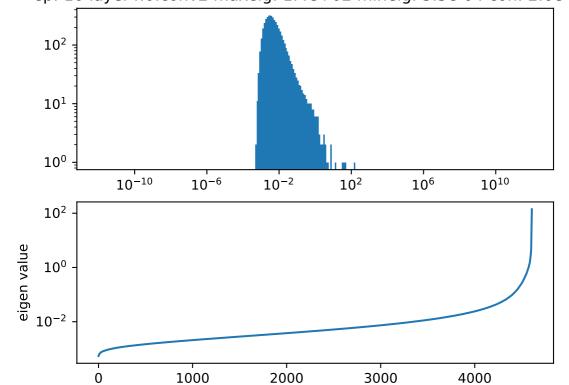
ep: 10 layer3.1.conv2 maxeig: 7.7e+01 mineig: 4.8e-04 con: 1.6e+05



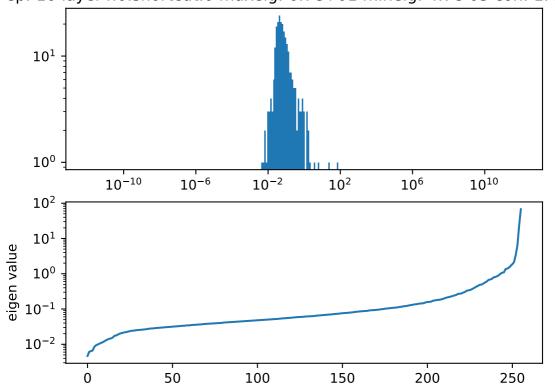
ep: 10 layer4.0.conv1 maxeig: 4.3e+02 mineig: 1.1e-03 con: 3.8e+05



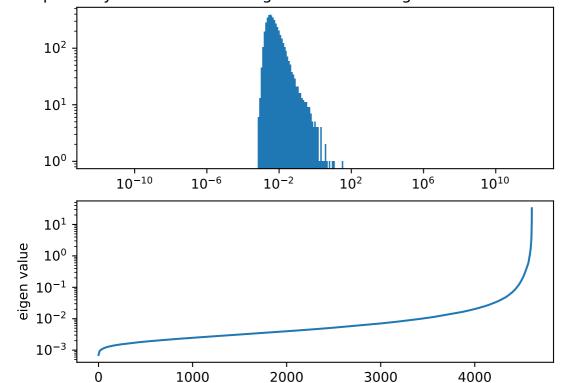
ep: 10 layer4.0.conv2 maxeig: 1.4e+02 mineig: 5.5e-04 con: 2.6e+05



ep: 10 layer4.0.shortcut.0 maxeig: 6.7e+01 mineig: 4.7e-03 con: 1.4e+04



ep: 10 layer4.1.conv1 maxeig: 3.3e+01 mineig: 7.0e-04 con: 4.7e+04



ep: 10 layer4.1.conv2 maxeig: 2.2e+02 mineig: 2.4e-04 con: 9.3e+05

