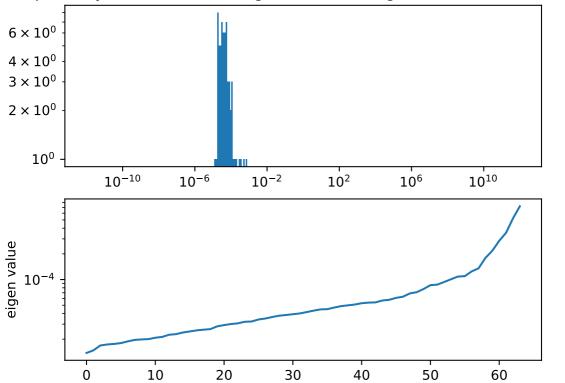
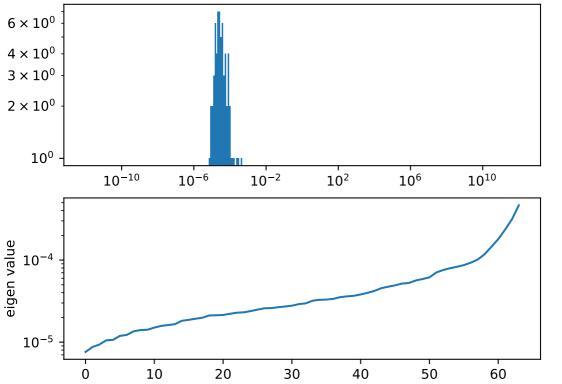


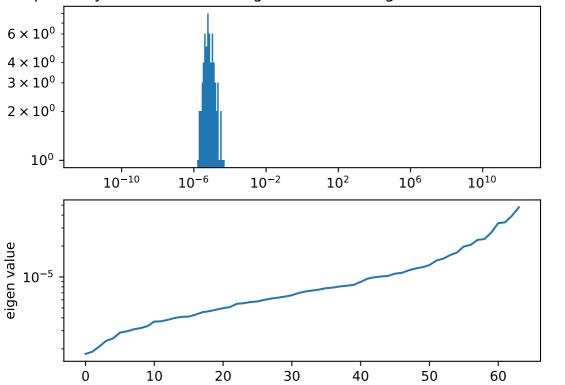
ep: 12 layer1.0.conv1 maxeig: 7.2e-04 mineig: 1.4e-05 con: 5.2e+01



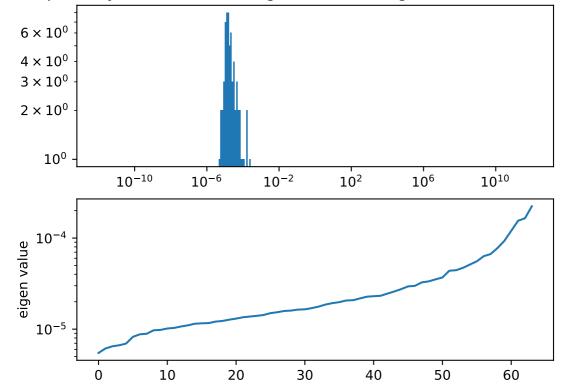
ep: 12 layer1.0.conv2 maxeig: 4.7e-04 mineig: 7.6e-06 con: 6.1e+01



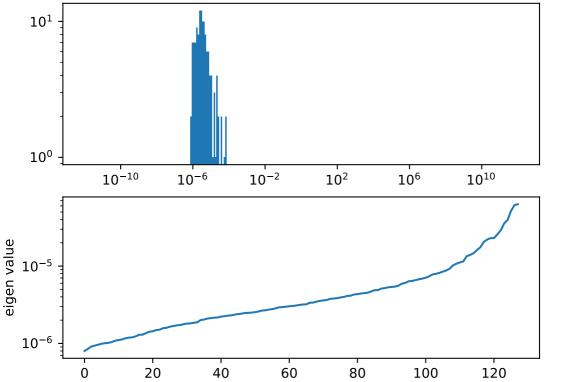
ep: 12 layer1.1.conv1 maxeig: 4.8e-05 mineig: 1.8e-06 con: 2.7e+01



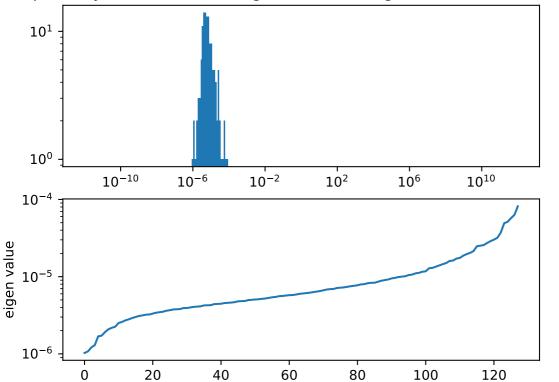
ep: 12 layer1.1.conv2 maxeig: 2.2e-04 mineig: 5.5e-06 con: 4.1e+01



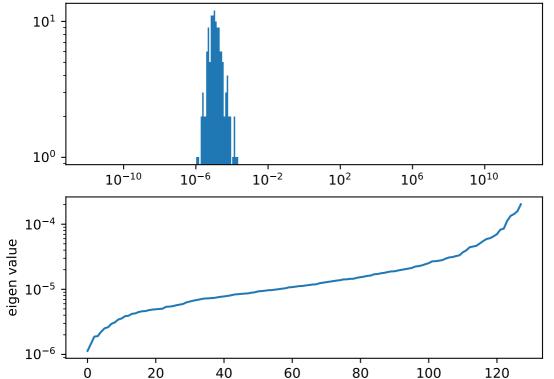
ep: 12 layer2.0.conv1 maxeig: 6.3e-05 mineig: 8.0e-07 con: 7.9e+01



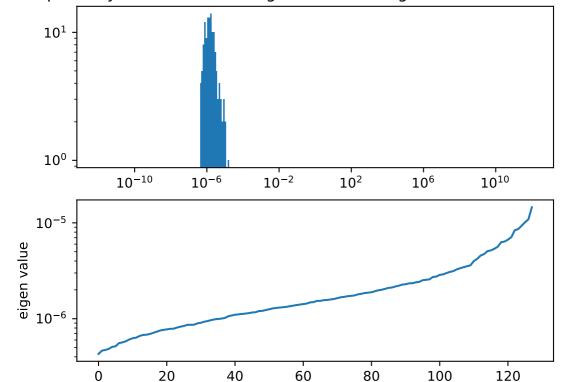
ep: 12 layer2.0.conv2 maxeig: 8.2e-05 mineig: 1.0e-06 con: 7.9e+01



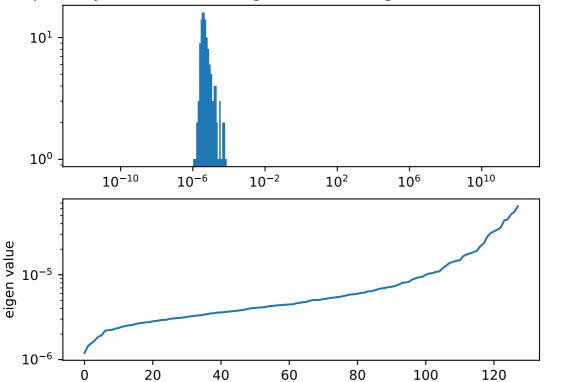
ep: 12 layer2.0.shortcut.0 maxeig: 2.0e-04 mineig: 1.1e-06 con: 1.8e+02



ep: 12 layer2.1.conv1 maxeig: 1.5e-05 mineig: 4.3e-07 con: 3.4e+01



ep: 12 layer2.1.conv2 maxeig: 6.4e-05 mineig: 1.2e-06 con: 5.4e+01



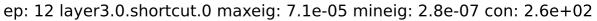
ep: 12 layer3.0.conv1 maxeig: 2.4e-05 mineig: 2.4e-07 con: 9.8e+01  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-6  $10^{-2}$ 10<sup>6</sup> eiden value  $10^{-5}$   $10^{-6}$ 250 50 100 150 200

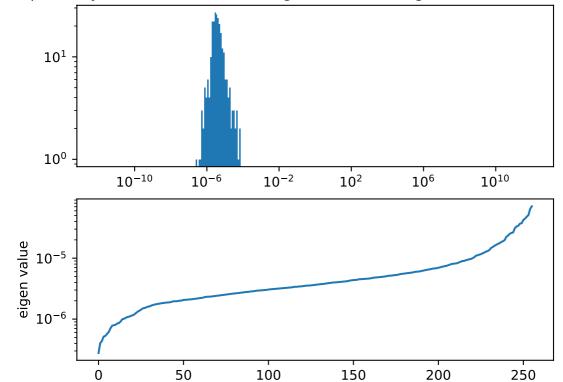
ep: 12 layer3.0.conv2 maxeig: 6.0e-05 mineig: 4.0e-07 con: 1.5e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-2}$ 10<sup>6</sup>  $10^{-6}$ eigen value 10-5  $10^{-6}$ 

150

200

50





ep: 12 layer3.1.conv1 maxeig: 1.5e-05 mineig: 1.8e-07 con: 8.0e+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> 10<sup>-5</sup> eigen value 50 250 100 150 200

ep: 12 layer3.1.conv2 maxeig: 5.0e-05 mineig: 4.0e-07 con: 1.3e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-2}$ 10<sup>6</sup>  $10^{-6}$ 10<sup>-5</sup> eigen value  $10^{-6}$ 250

150

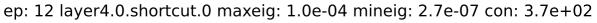
200

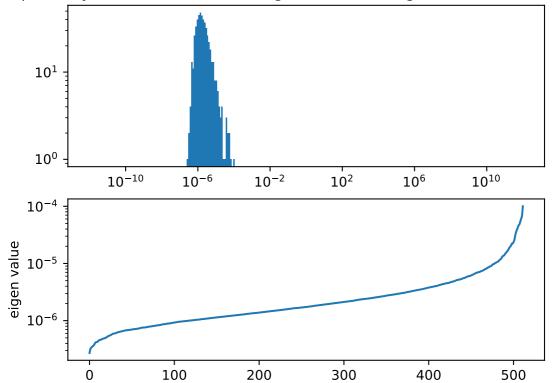
ep: 12 layer4.0.conv1 maxeig: 4.8e-05 mineig: 1.1e-07 con: 4.4e+02 10<sup>1</sup> 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10<sup>-10</sup>  $10^{-6}$  $10^{-2}$ 10<sup>6</sup> eigen value 10<sup>-6</sup> 10<sup>-7</sup> 100 500

300

ep: 12 layer4.0.conv2 maxeig: 6.2e-05 mineig: 2.6e-07 con: 2.4e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-2}$ 10<sup>6</sup>  $10^{-6}$ eigen value 10<sup>-6</sup> 100 500

300





ep: 12 layer4.1.conv1 maxeig: 8.0e-05 mineig: 1.1e-07 con: 7.3e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup>  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-6</sup> 10<sup>-7</sup> 100 500 200 300 400

ep: 12 layer4.1.conv2 maxeig: 1.7e-04 mineig: 2.3e-07 con: 7.3e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$ eigen value 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

