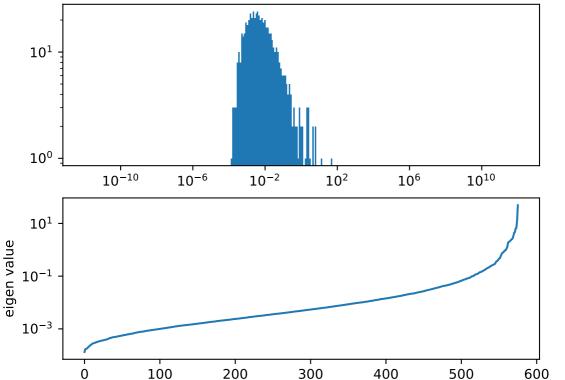


ep: 3 layer1.0.conv1 maxeig: 4.9e+01 mineig: 1.3e-04 con: 3.7e+05



ep: 3 layer1.0.conv2 maxeig: 5.4e+01 mineig: 4.3e-04 con: 1.3e+05 10¹ 10⁰ 10 10 10⁻¹⁰ 10-2 10⁶ 10^{-6} 10² 10^{1} $\frac{9}{10}$ 10^{0} 10^{-1} 10^{-2} 10^{0} 10⁻³

400

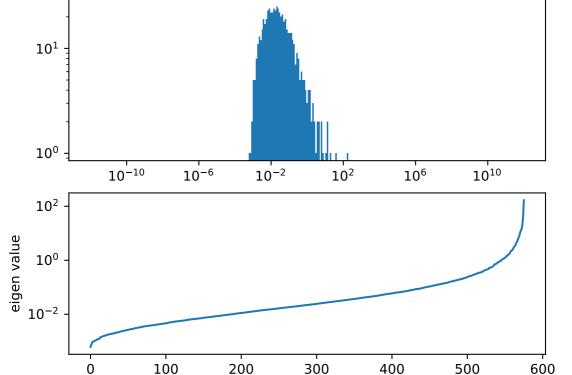
500

600

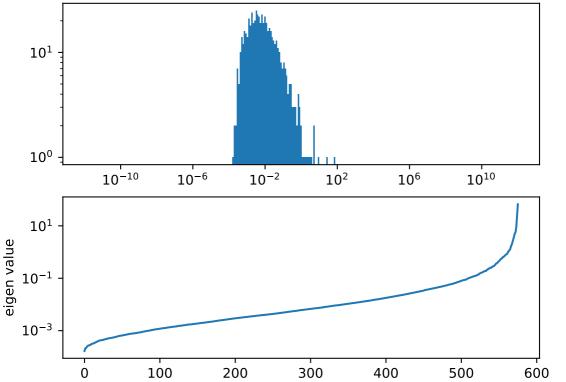
100

200

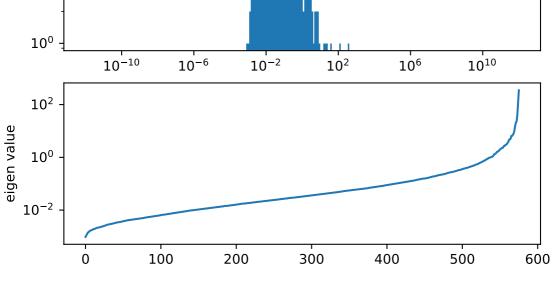
ep: 3 layer1.1.conv1 maxeig: 1.7e+02 mineig: 6.1e-04 con: 2.7e+05



ep: 3 layer1.1.conv2 maxeig: 6.6e+01 mineig: 1.7e-04 con: 3.9e+05

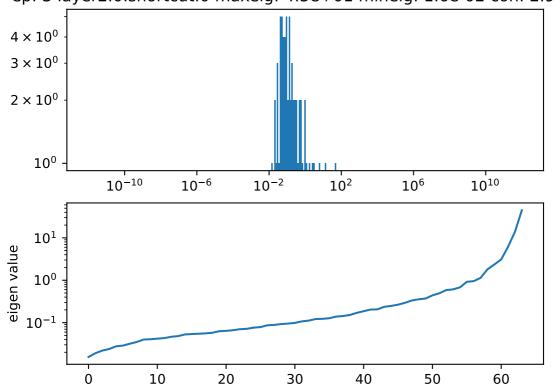


ep: 3 layer2.0.conv1 maxeig: 3.5e+02 mineig: 9.6e-04 con: 3.6e+05 10¹ 10⁰ 10 10 10⁻¹⁰ 10-2 10⁶ 10^{-6} 10²



ep: 3 layer2.0.conv2 maxeig: 1.1e+02 mineig: 4.4e-04 con: 2.5e+05 10^{1} 10⁰ 10 10 10-10 10⁶ 10^{-6} 10^{-2} 10² 10² eigen value 10⁻² 200 400 600 800 1000 1200

ep: 3 layer2.0.shortcut.0 maxeig: 4.5e+01 mineig: 1.6e-02 con: 2.9e+03



ep: 3 layer2.1.conv1 maxeig: 3.3e+02 mineig: 1.0e-03 con: 3.3e+05 10^{1} 10⁰ 10¹⁰ 10-10 10-2 10⁶ 10^{-6} 10² 10^{2} eigen value 10⁰ 10^{-2} 400 200 600 800 1000 1200

ep: 3 layer2.1.conv2 maxeig: 1.6e+02 mineig: 2.8e-04 con: 5.5e+05 10^{1} 10⁰ 10¹⁰ 10-10 10-2 10⁶ 10^{-6} 10² 10^{2} e ide on solution of the solut 10⁰ 200 400 600 800 1000 1200

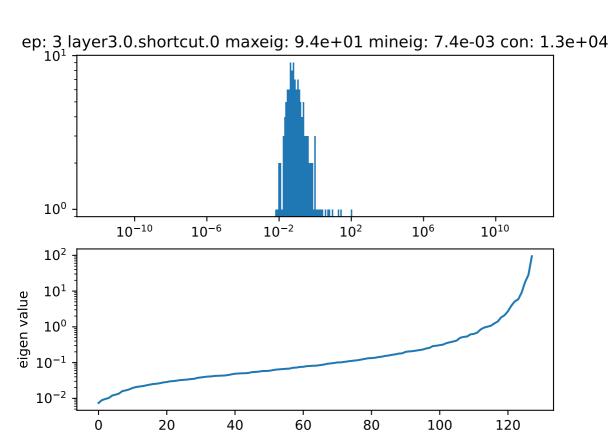
ep: 3 layer3.0.conv1 maxeig: 7.3e+02 mineig: 1.5e-03 con: 4.7e+05 10^{1} 10⁰ 1010 10⁻¹⁰ 10^{-6} 10^{-2} 10² 10⁶ 10^{2} eigen value 10⁰ 10^{-2} 200 400 600 800 1000 1200

ep: 3 layer3.0.conv2 maxeig: 1.8e+02 mineig: 8.3e-04 con: 2.2e+05 10² 10^{1} 10⁰ 10 10 10-10 10^{-6} 10^{-2} 10² 10⁶ 10^{2} 10⁰ 10^{-2} 500

1500

2000

eigen value



ep: 3 layer3.1.conv1 maxeig: 5.7e+02 mineig: 1.2e-03 con: 4.6e+05 10^{2} 10¹ 10⁰ 1010 10⁻¹⁰ 10-2 10^{-6} 10² 10⁶ 10^{2} 10⁰ 10^{-2}

1500

2000

500

eigen value

ep: 3 layer3.1.conv2 maxeig: 2.1e+02 mineig: 6.5e-04 con: 3.3e+05 10^{2} 10¹ 10⁰ 10¹⁰ 10-10 10^{-6} 10^{-2} 10² 10⁶ 10^{2} eigen value 10⁰ 10^{-2} 500

1500

2000

ep: 3 layer4.0.conv1 maxeig: 1.2e+03 mineig: 1.5e-03 con: 7.5e+05 10^{2} 10^{1} 10⁰ 1010 10-10 10⁶ 10^{-6} 10^{-2} 10² 10² 10⁰ 10^{-2}

1500

2000

500

eigen value

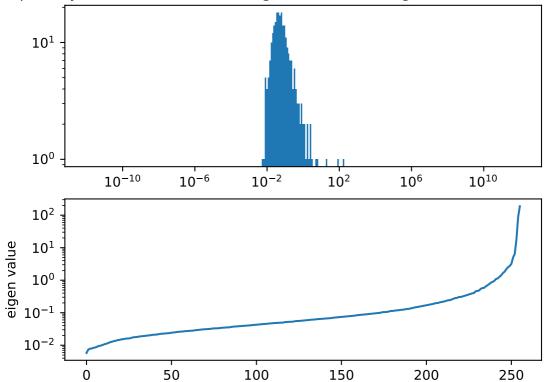
ep: 3 layer4.0.conv2 maxeig: 3.7e+02 mineig: 3.2e-04 con: 1.2e+06 10^{2} 10^{1} 10⁰ 1010 10-10 10⁶ 10^{-6} 10^{-2} 10² 10^{2} eigen value 10⁻²

1000

4000

3000

ep: 3 layer4.0.shortcut.0 maxeig: 1.9e+02 mineig: 5.8e-03 con: 3.2e+04



ep: 3 layer4.1.conv1 maxeig: 8.7e+01 mineig: 7.8e-04 con: 1.1e+05 10² 10^{1} 10⁰ 10¹⁰ 10-10 10⁶ 10^{-6} 10^{-2} 10² 10^{2} eigen value 10⁰ 10^{-2} 4000 1000 2000 3000

ep: 3 layer4.1.conv2 maxeig: 5.5e+02 mineig: 2.3e-04 con: 2.4e+06 10^{2} 10^{1} 10⁰ 1010 10-10 10^{-6} 10^{-2} 10⁶ 10^{2} 10^{2} eigen value 4000 1000 2000 3000

