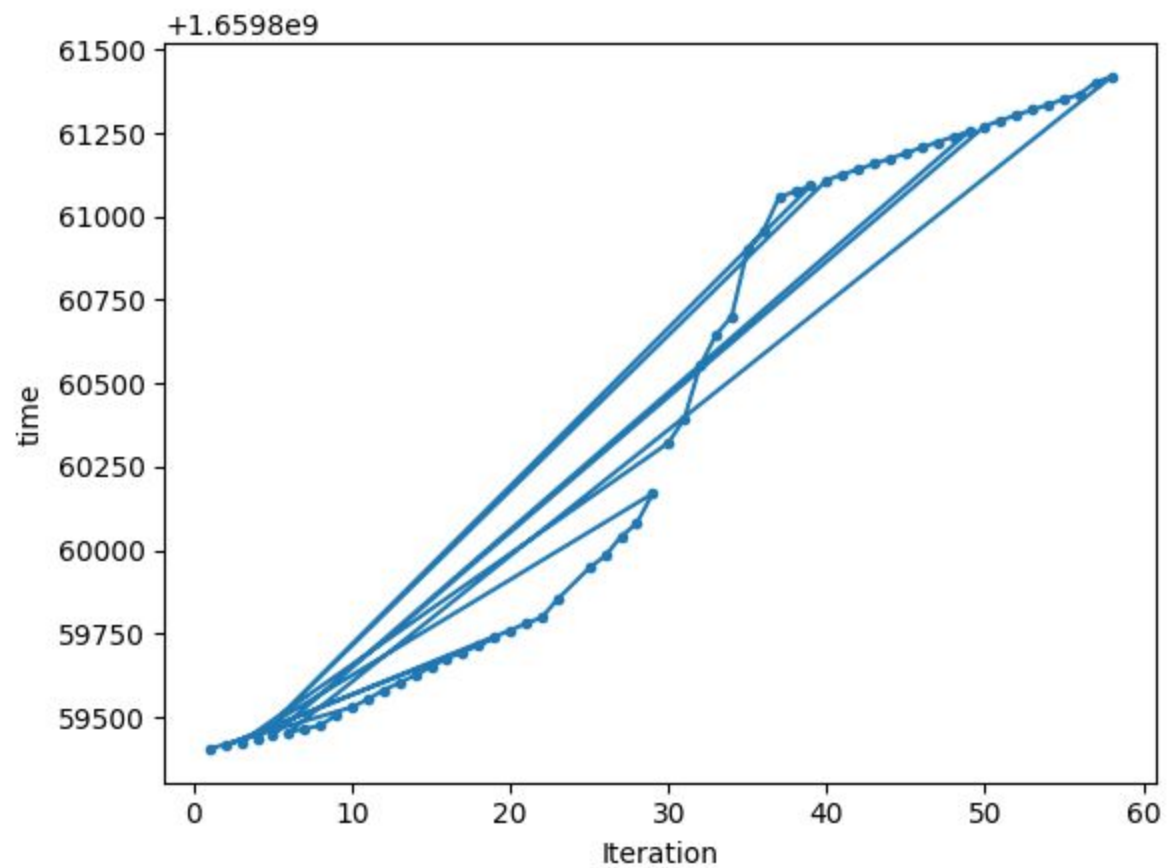


# YAML File PV Plots (Two bunch)

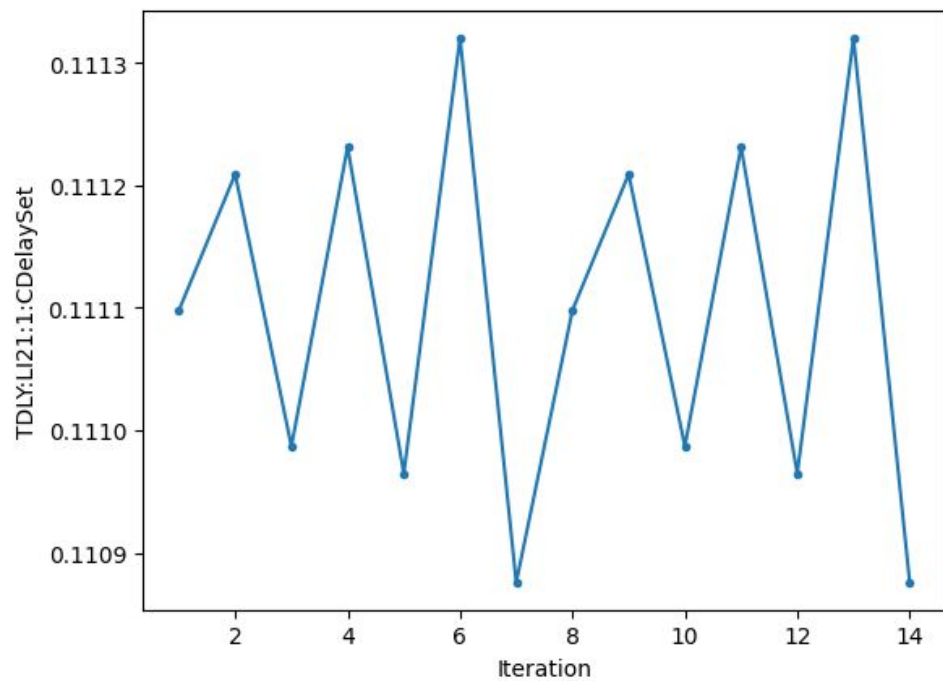
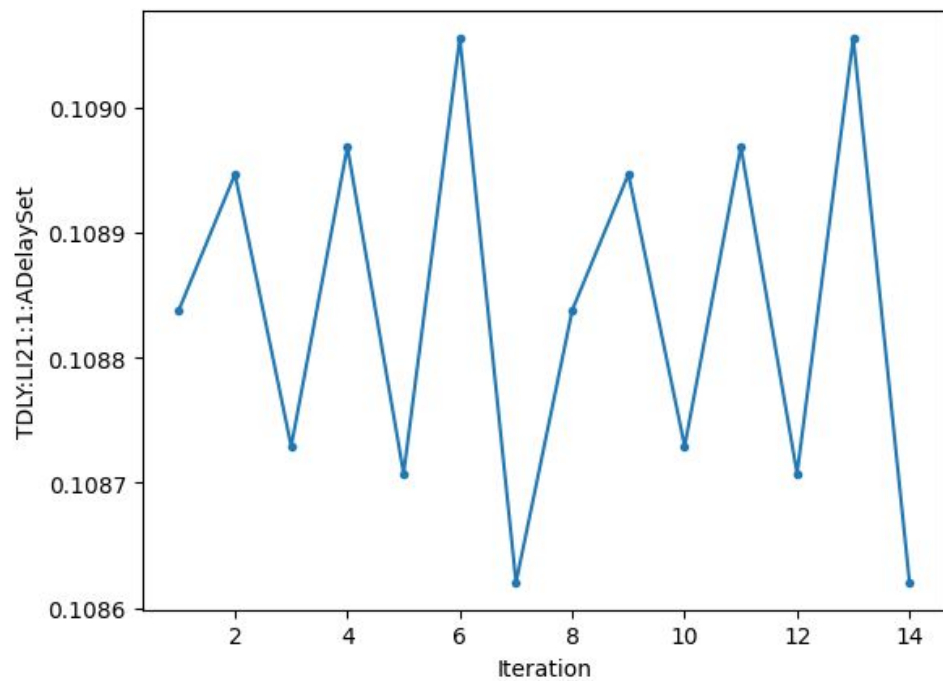
Rafael Sifuentes

# VOC Histograms



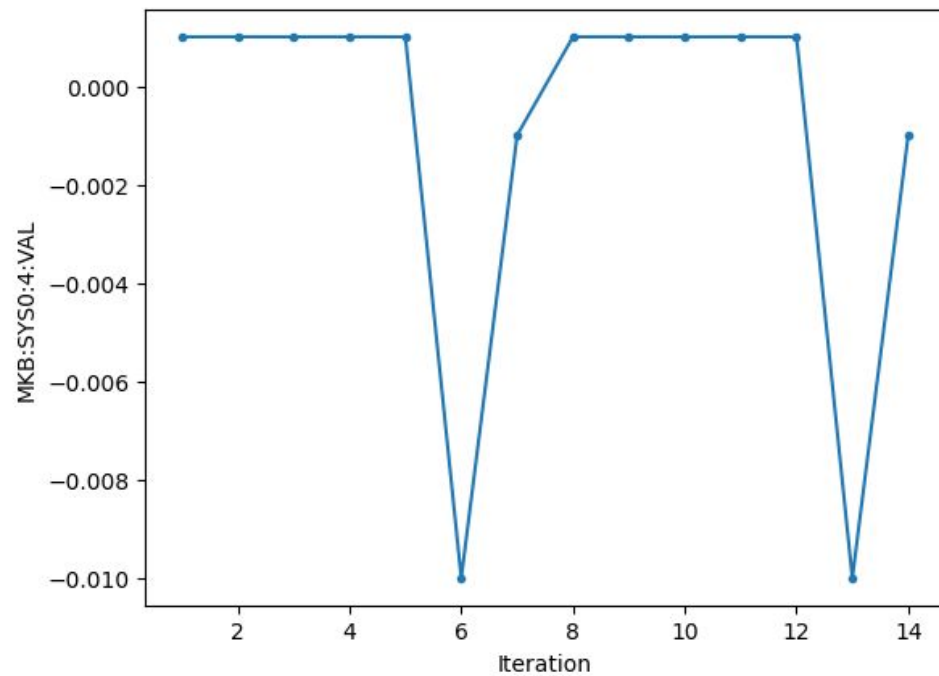
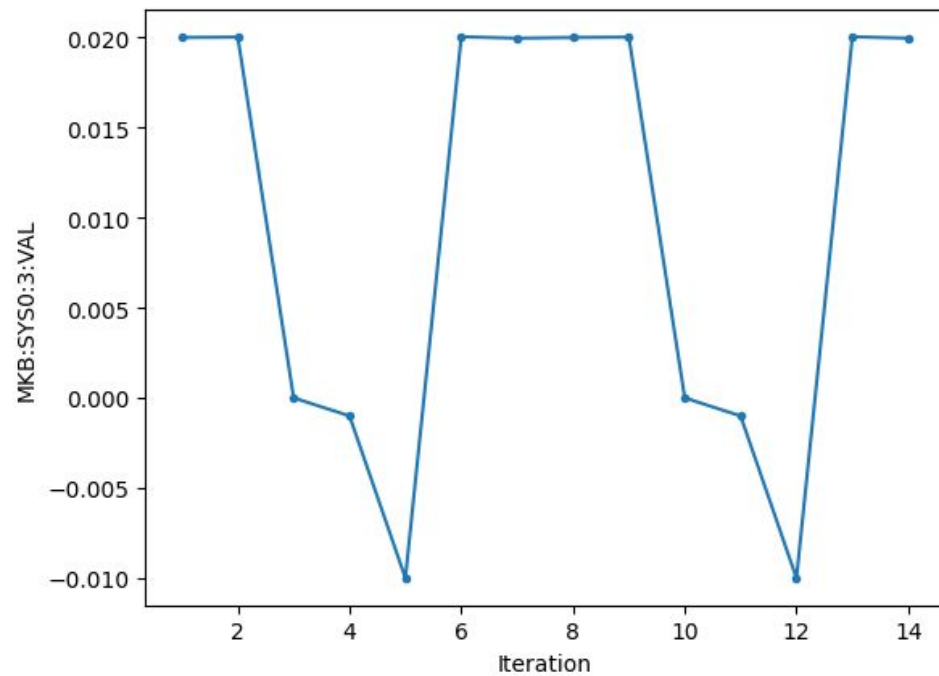
20220806\_two\_bunch\_FEL\_with\_kicker\_1.yaml

Variables



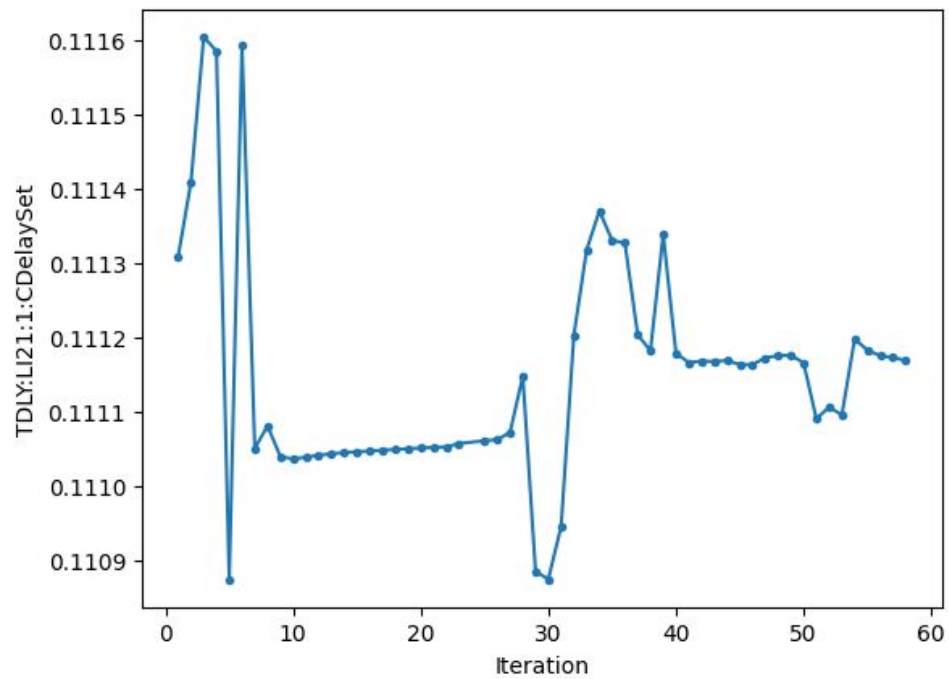
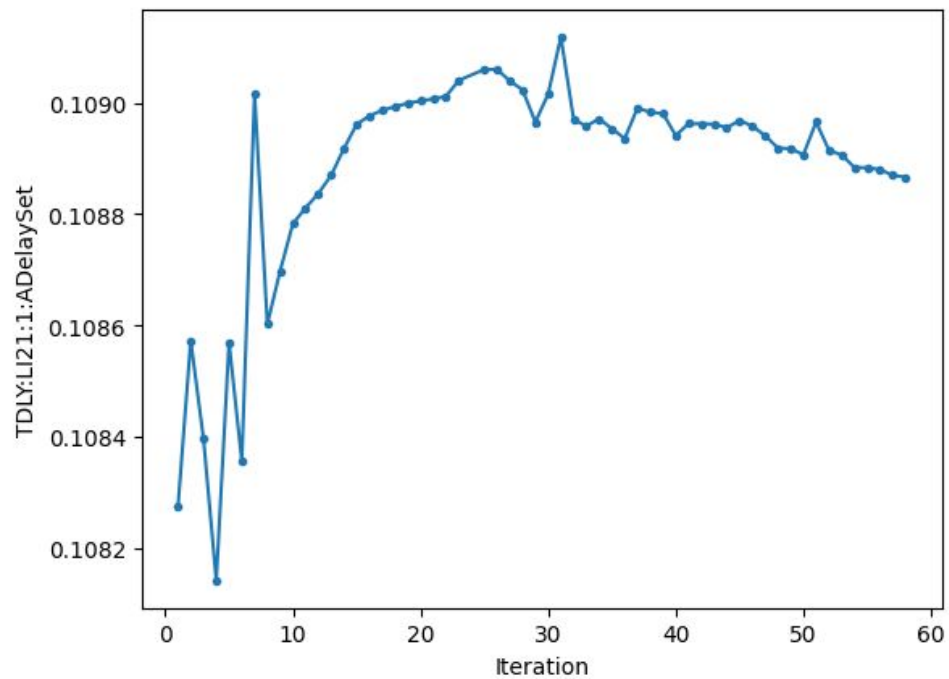
20220806\_two\_bunch\_FEL\_with\_kicker\_1.yaml

Variables



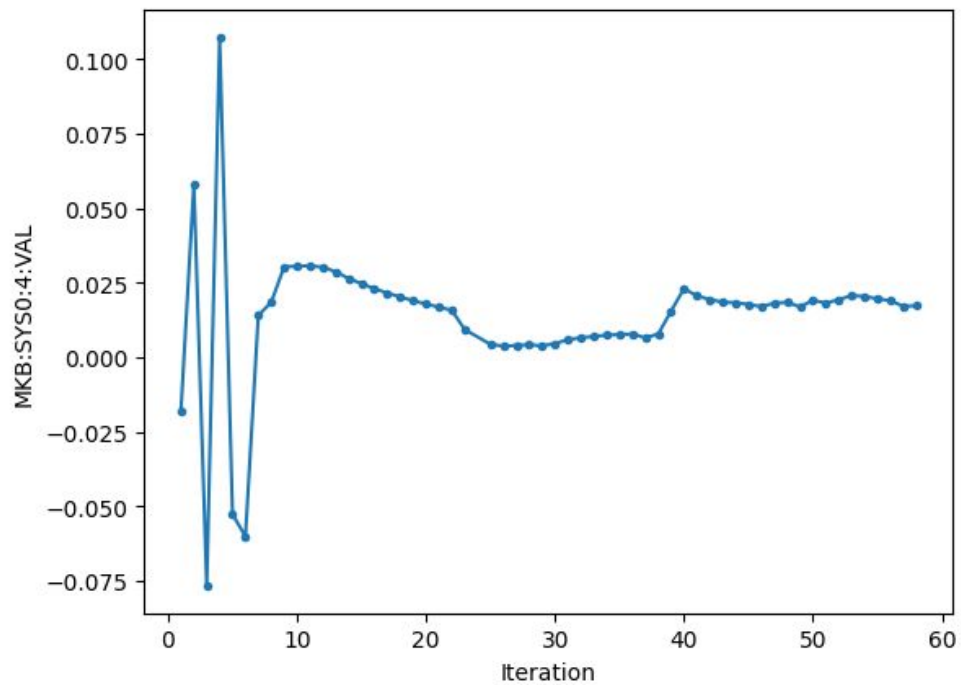
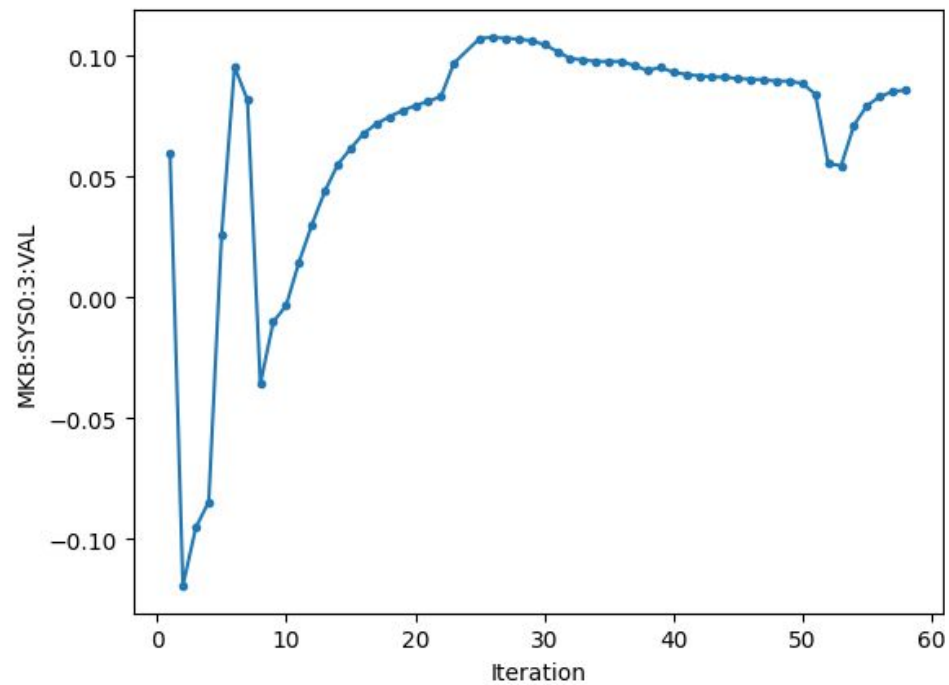
20220806\_two\_bunch\_FEL\_with\_kicker\_2.yaml

Variables



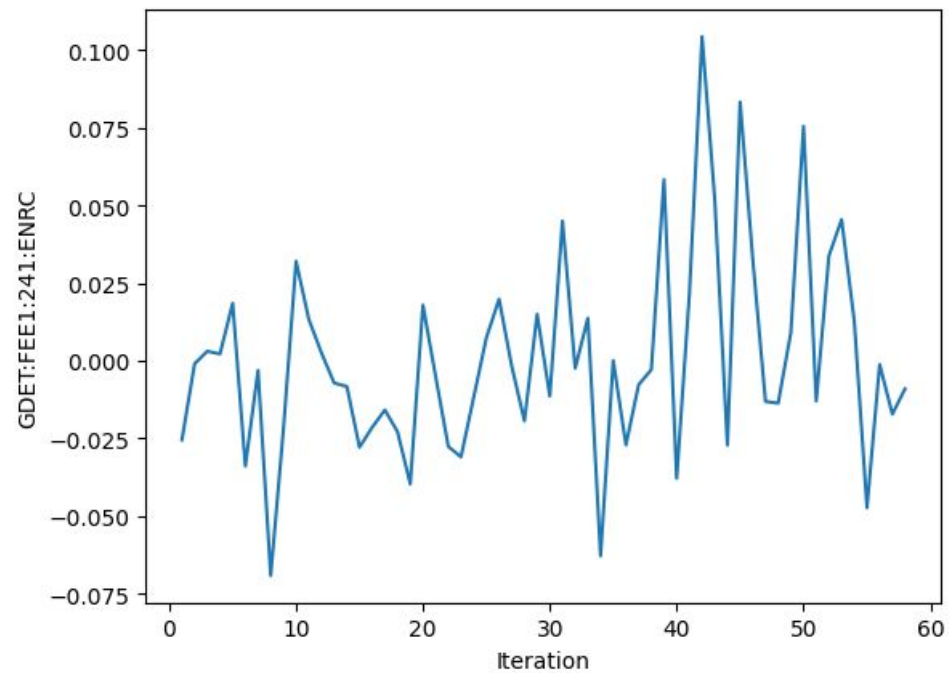
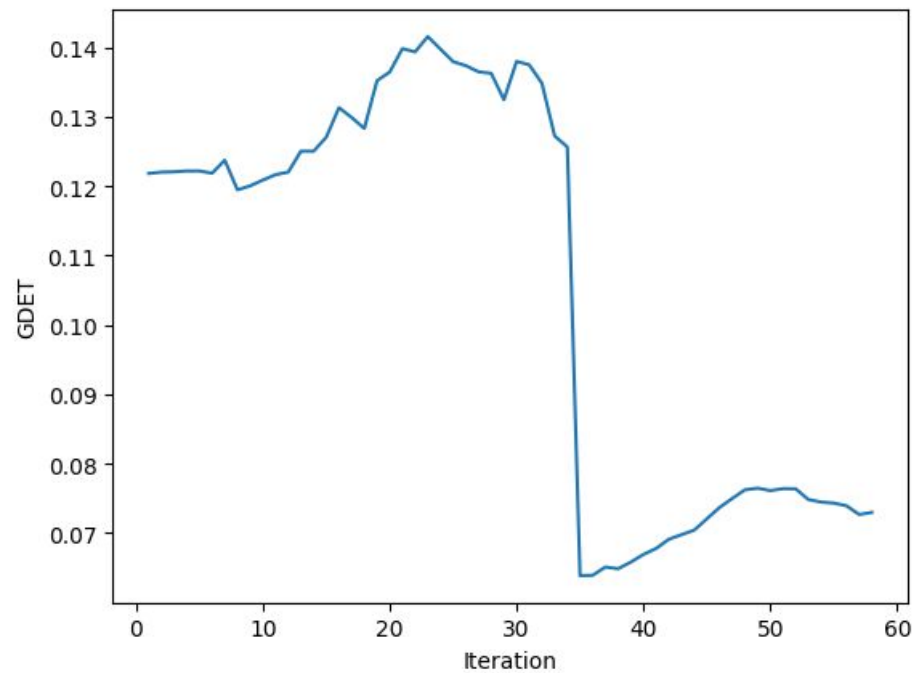
20220806\_two\_bunch\_FEL\_with\_kicker\_2.yaml

Variables



20220806\_two\_bunch\_FEL\_with\_kicker\_2.yaml

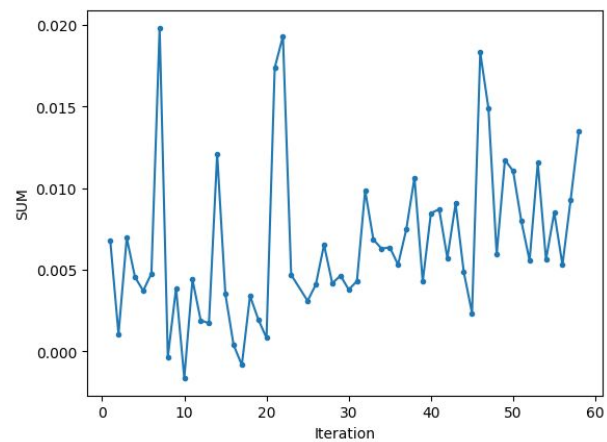
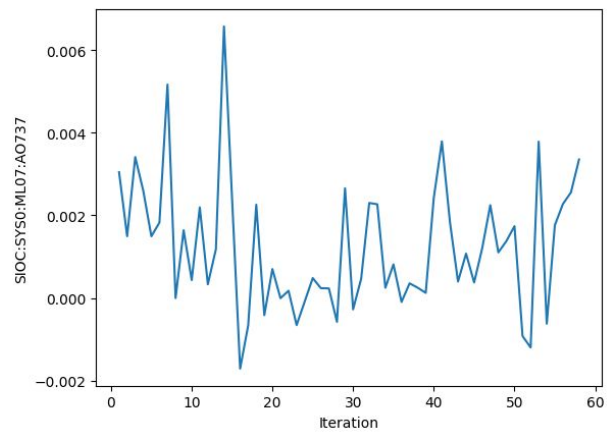
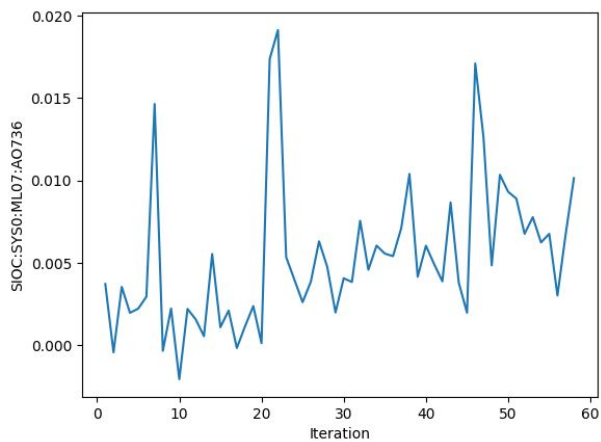
Objective(s)





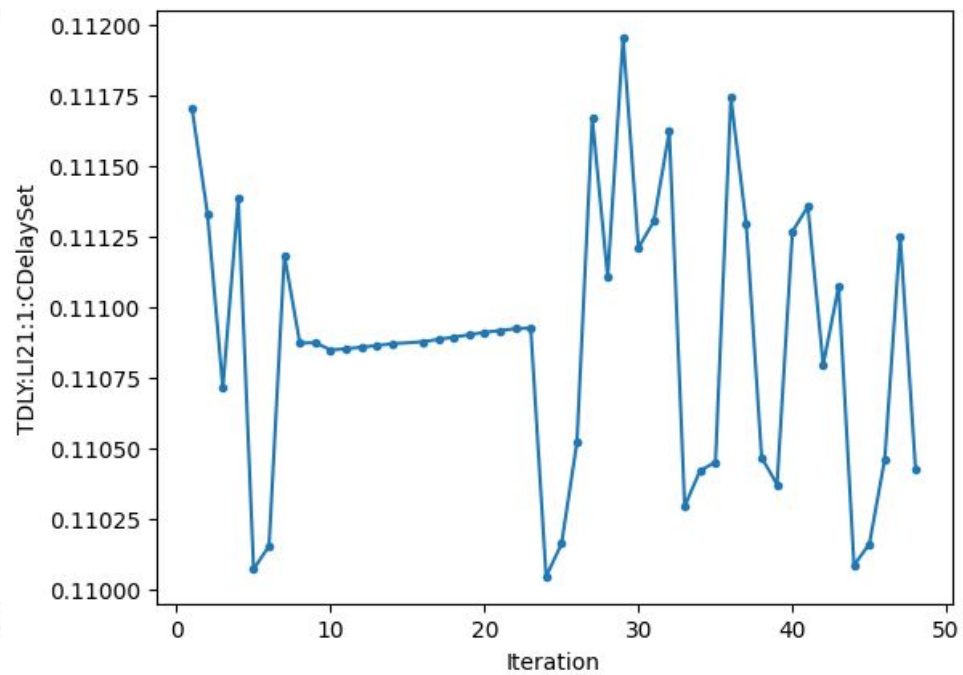
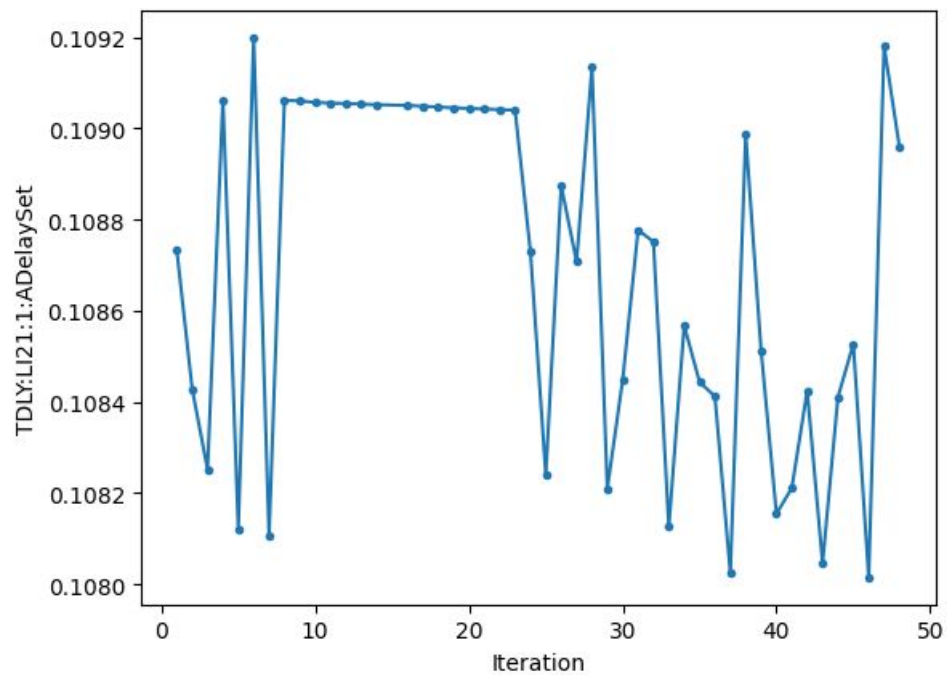
20220806\_two\_bunch\_FEL\_with\_kicker\_2.yaml

Detectors



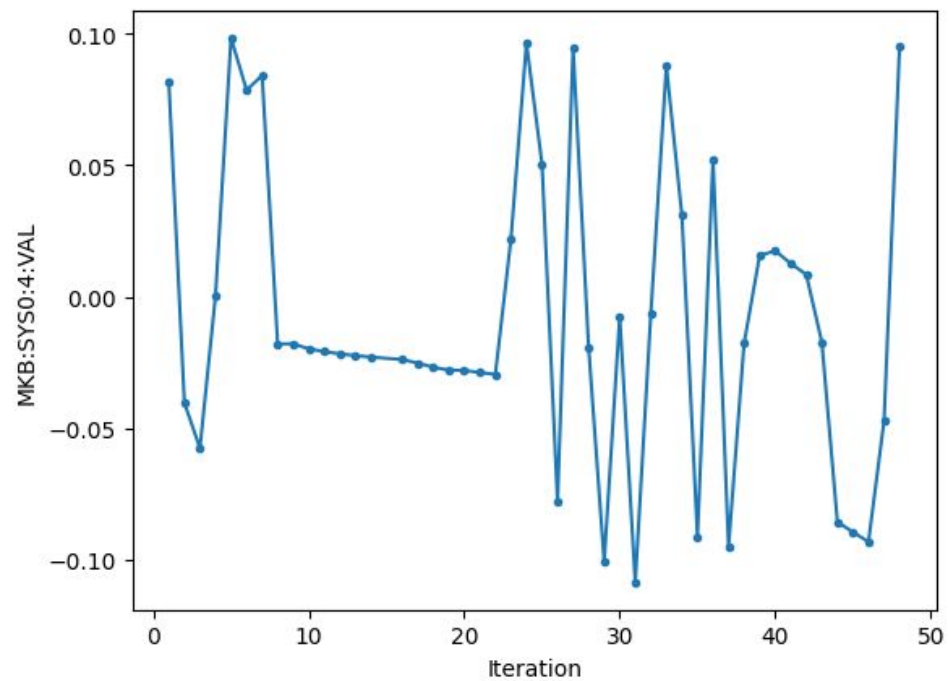
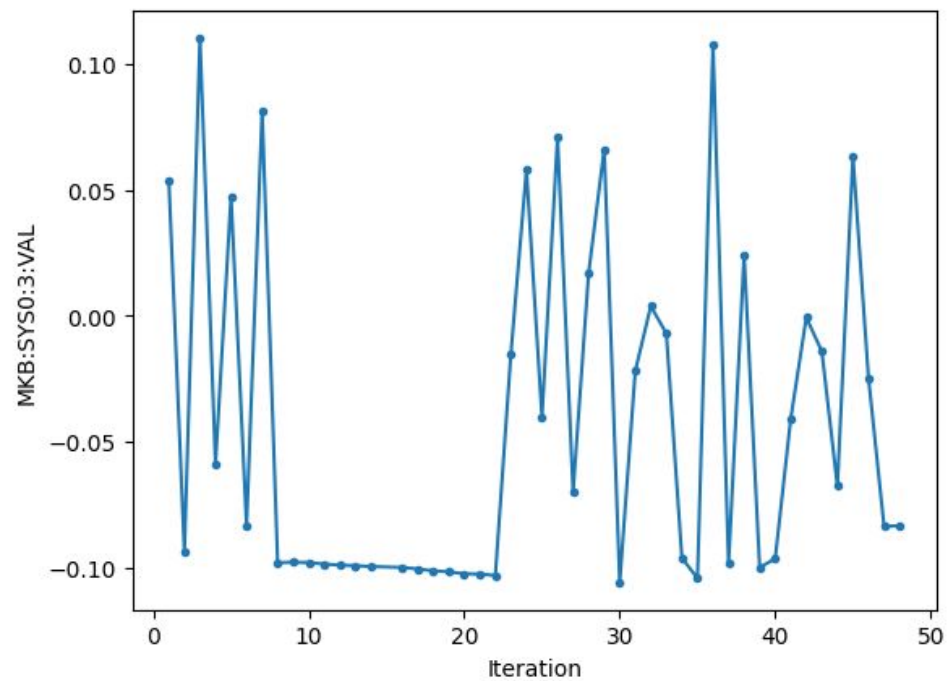
20220806\_two\_bunch\_FEL\_with\_kicker\_3.yaml

Variables



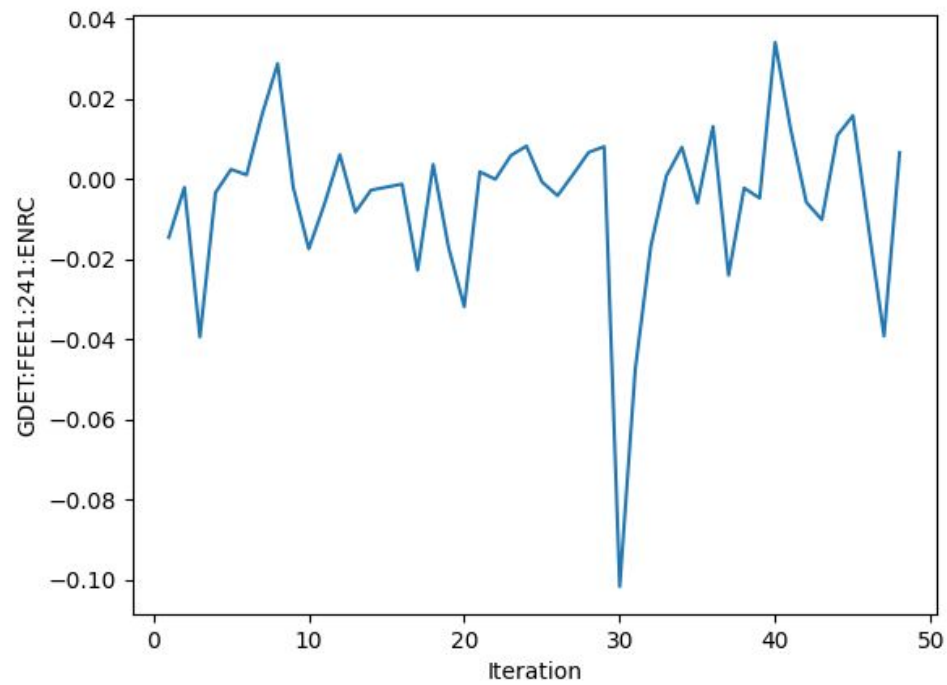
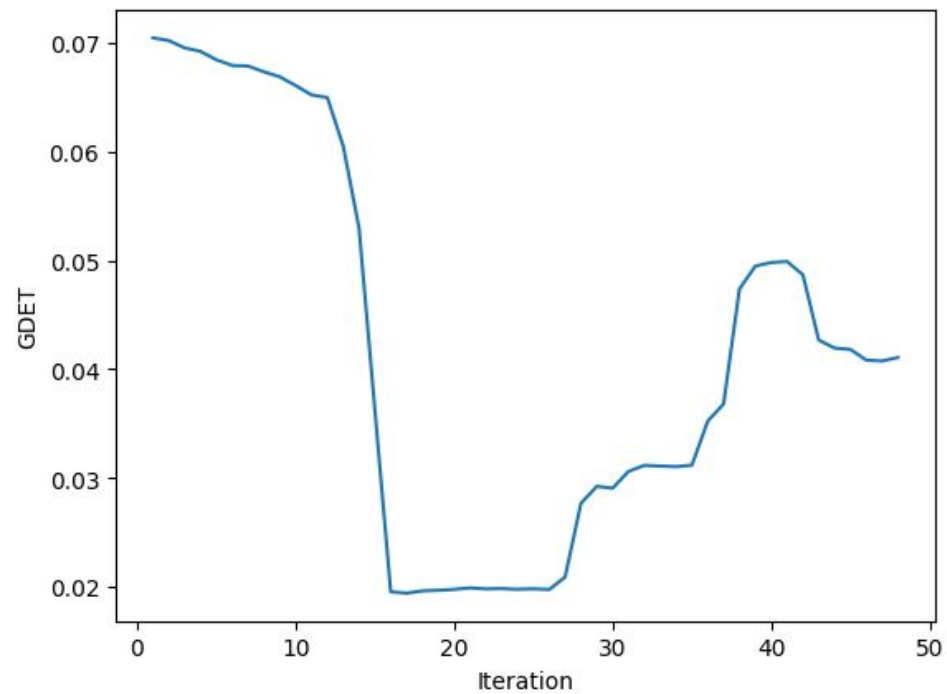
20220806\_two\_bunch\_FEL\_with\_kicker\_3.yaml

Variables



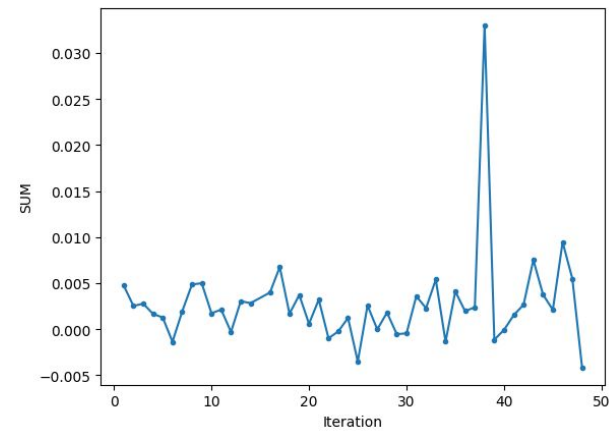
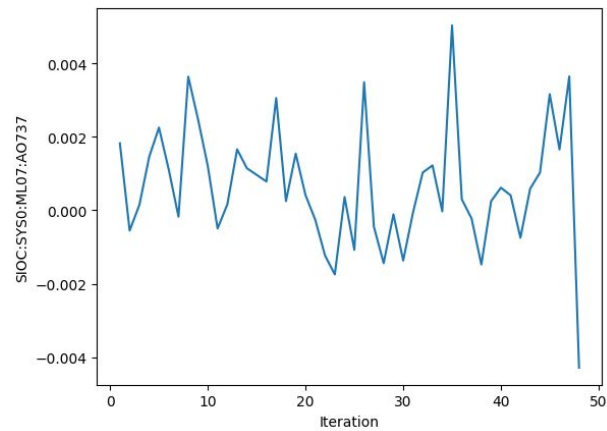
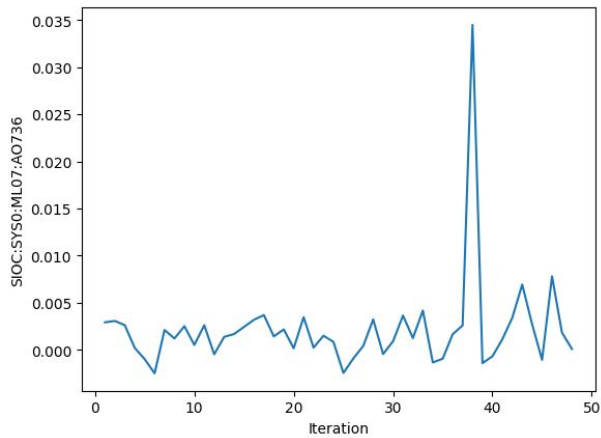
20220806\_two\_bunch\_FEL\_with\_kicker\_3.yaml

Objective(s)



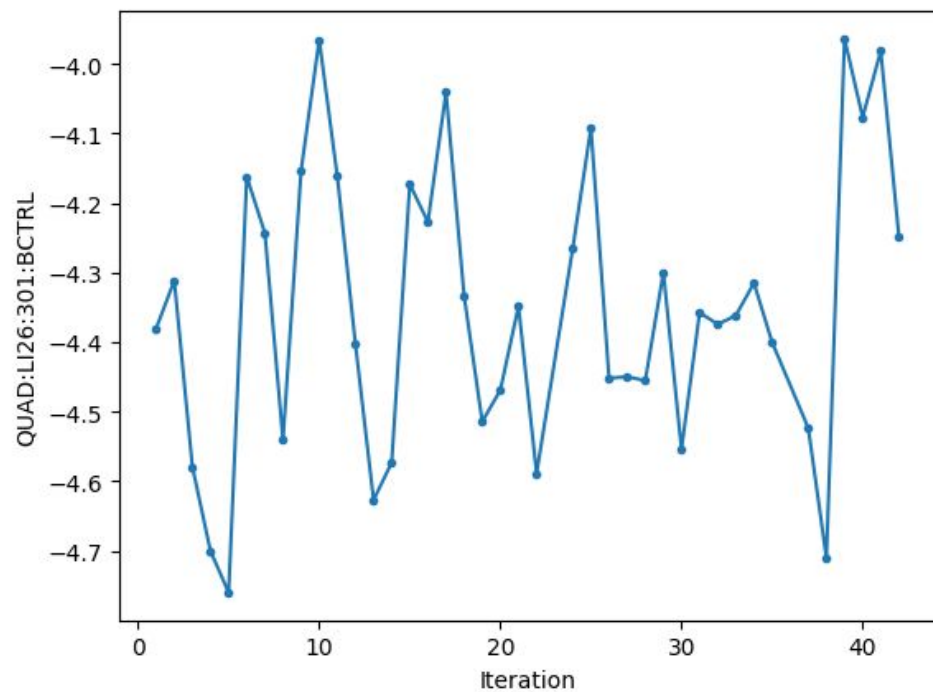
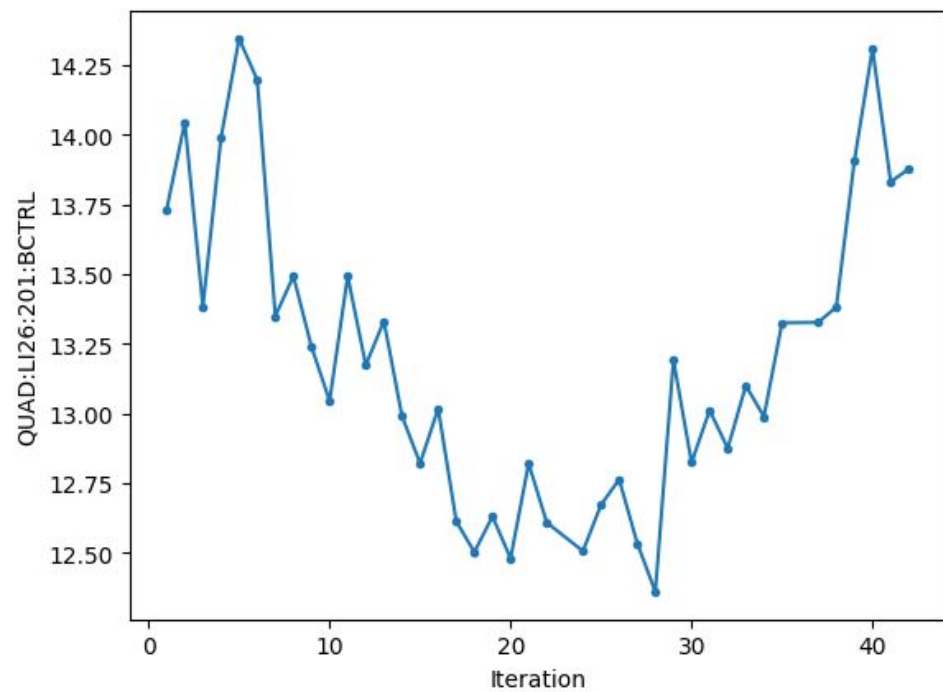
20220806\_two\_bunch\_FEL\_with\_kicker\_3.yaml

Detectors



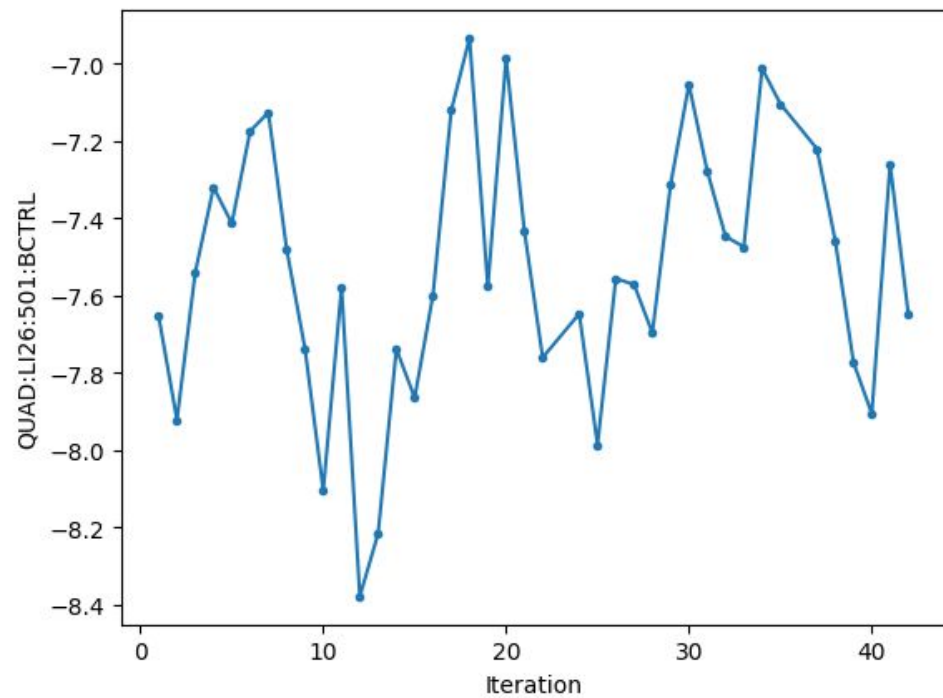
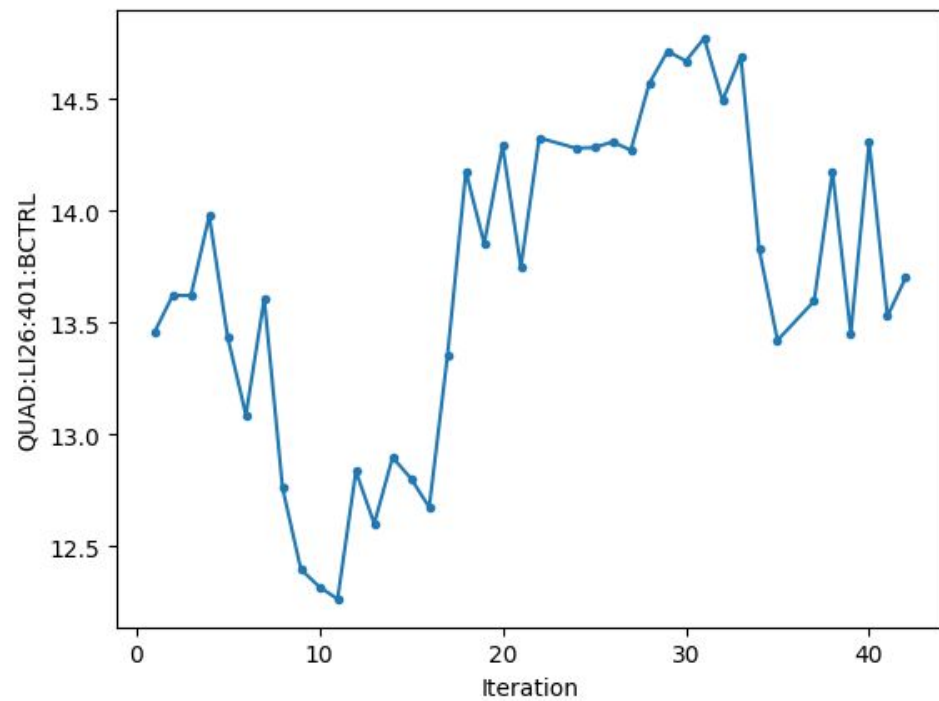
20220805\_two\_bunch\_FEL\_with\_kicker.yaml

Variables



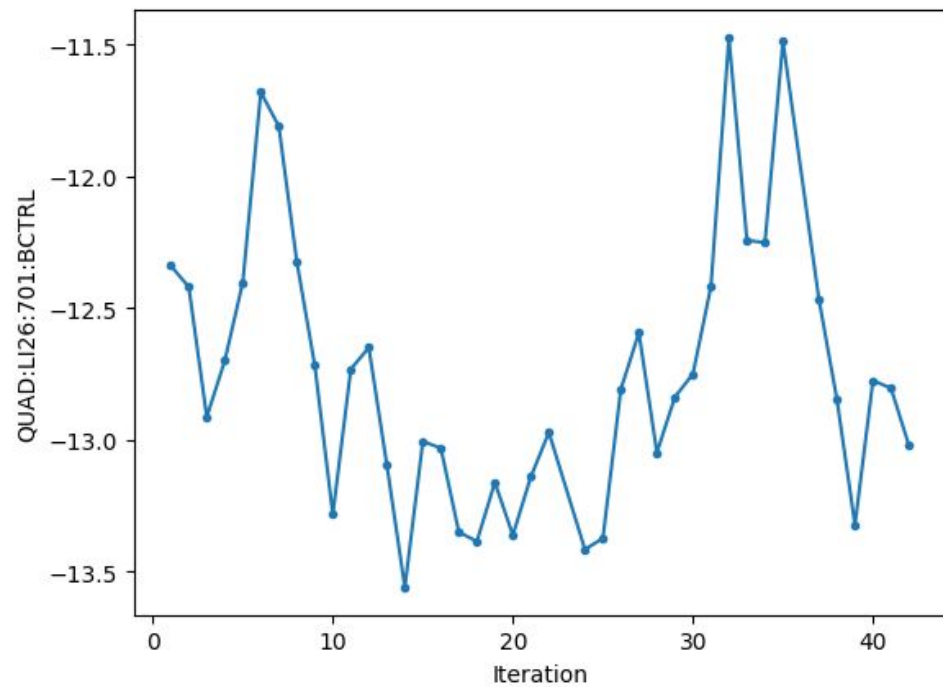
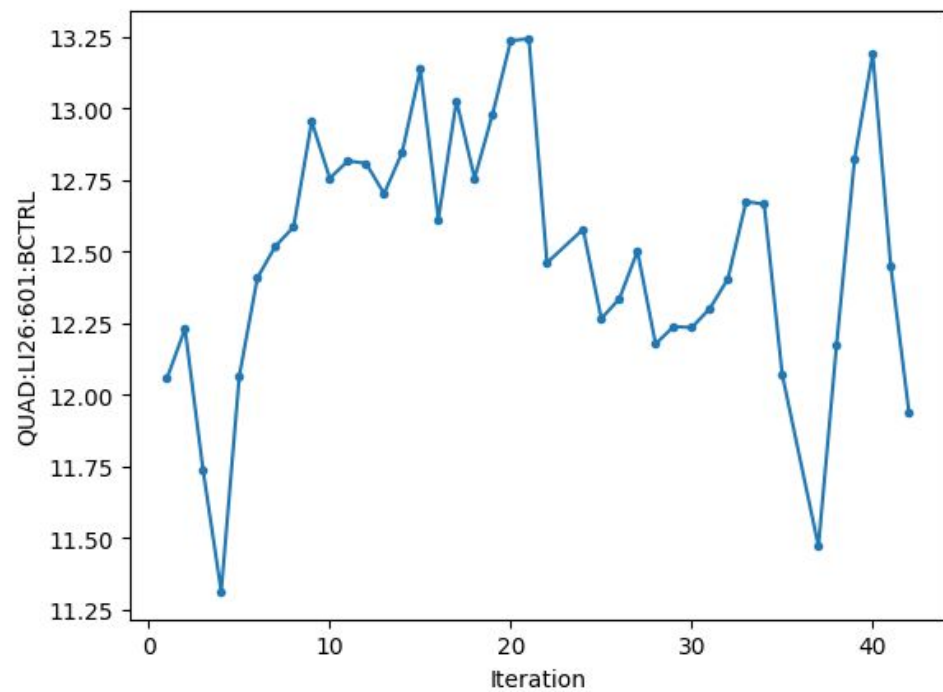
20220805\_two\_bunch\_FEL\_with\_kicker.yaml

Variables



20220805\_two\_bunch\_FEL\_with\_kicker.yaml

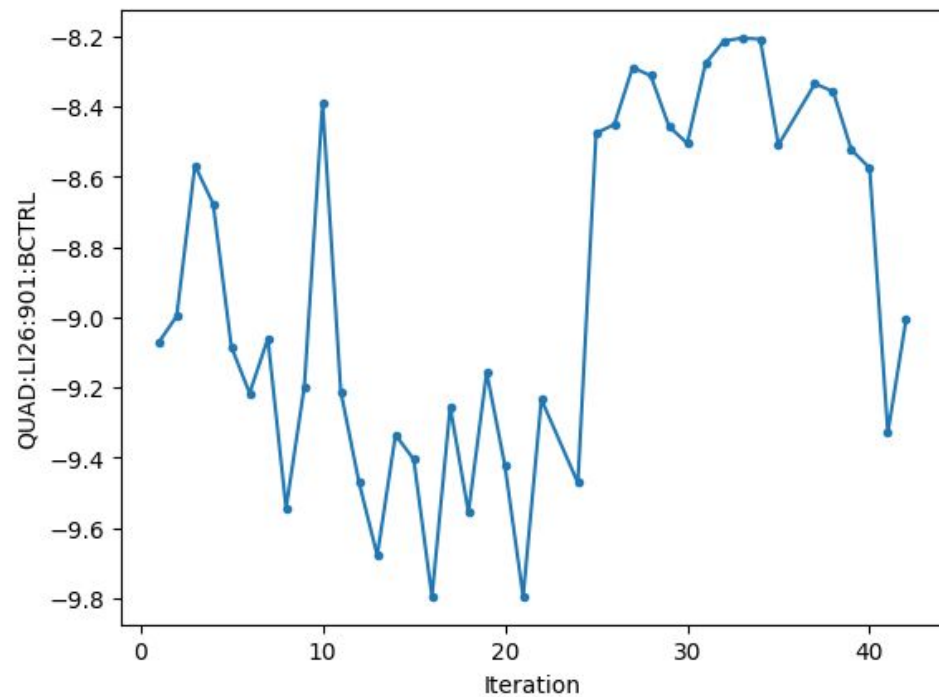
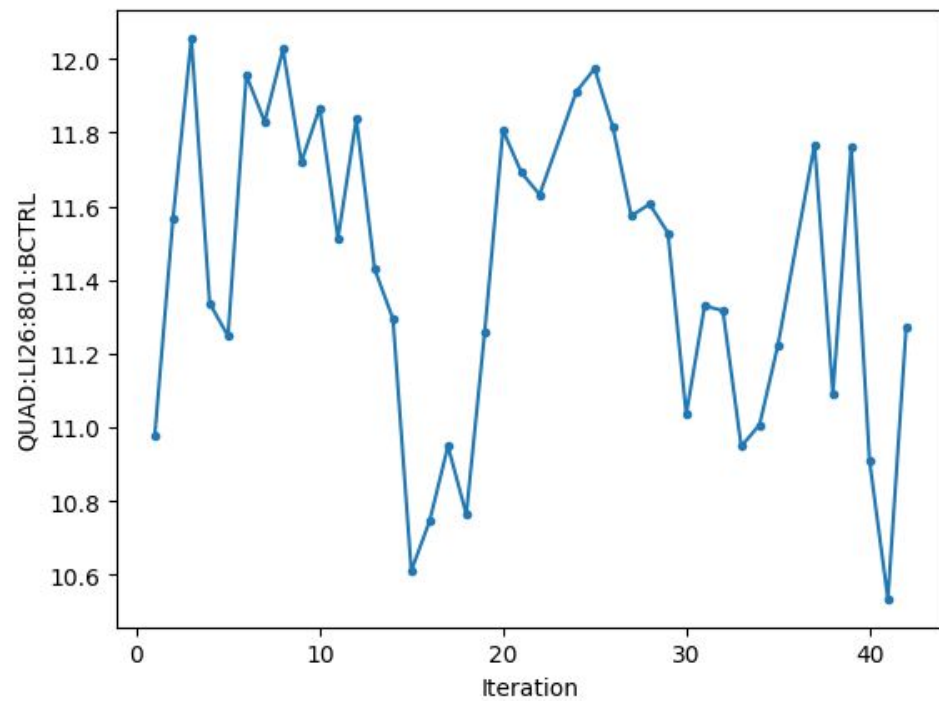
Variables





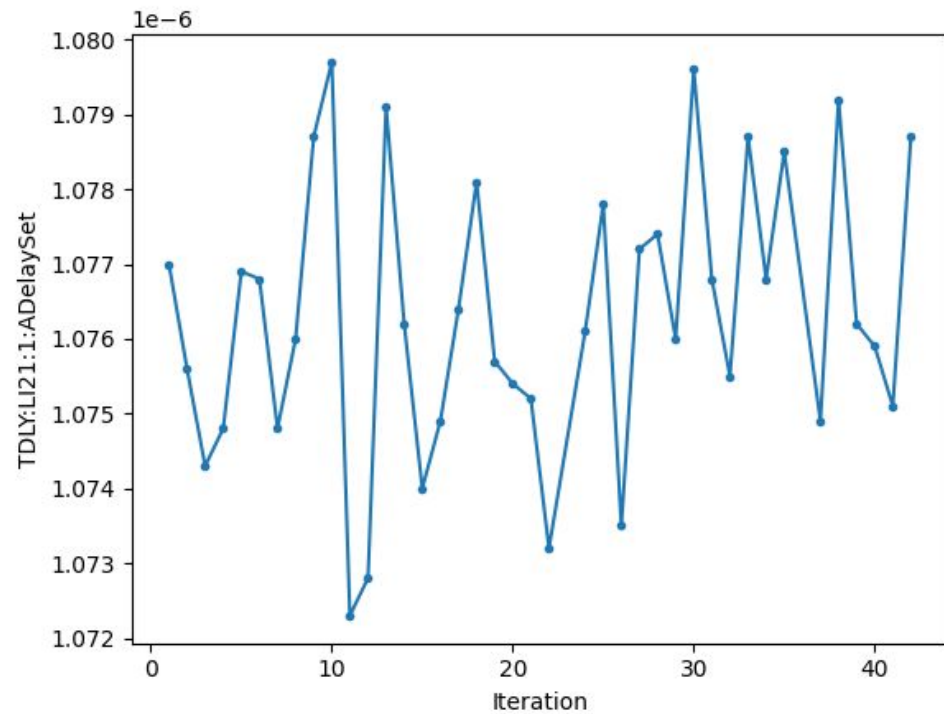
20220805\_two\_bunch\_FEL\_with\_kicker.yaml

Variables



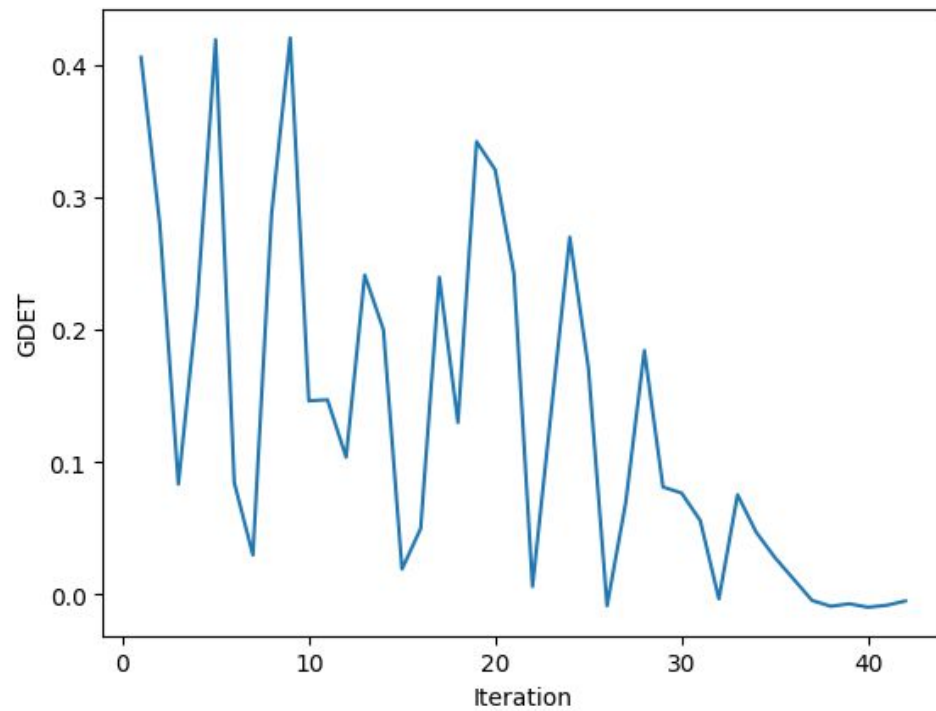
20220805\_two\_bunch\_FEL\_with\_kicker.yaml

Variables



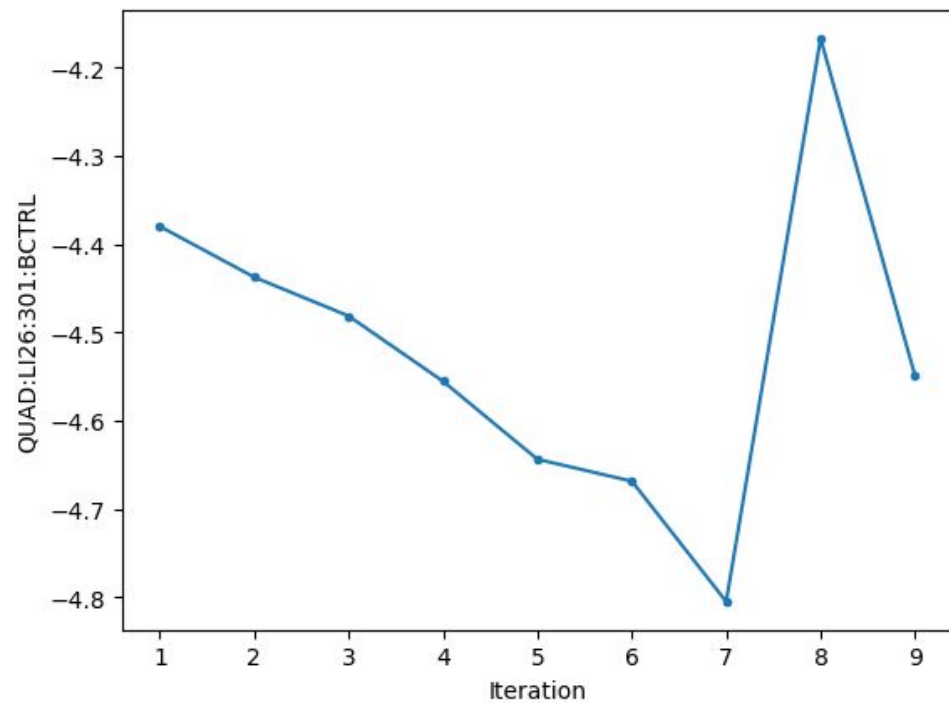
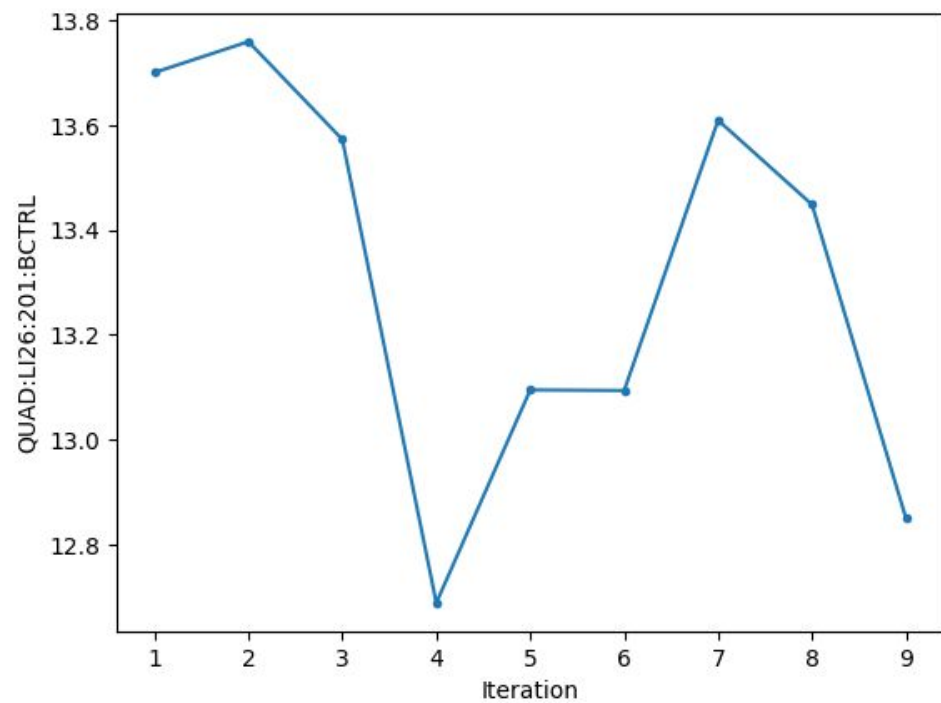
20220805\_two\_bunch\_FEL\_with\_kicker.yaml

Objective(s)



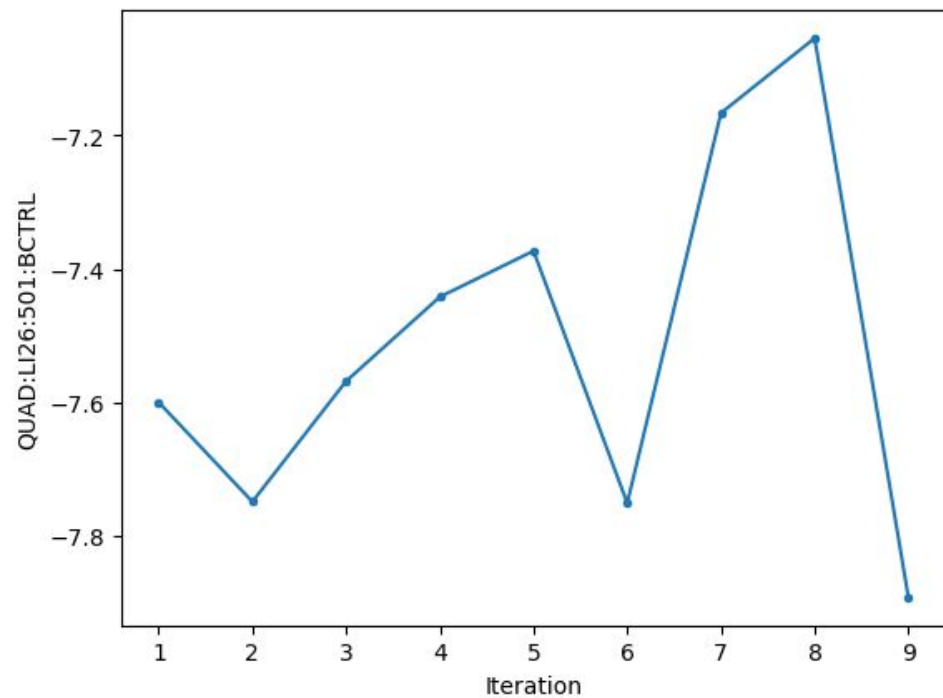
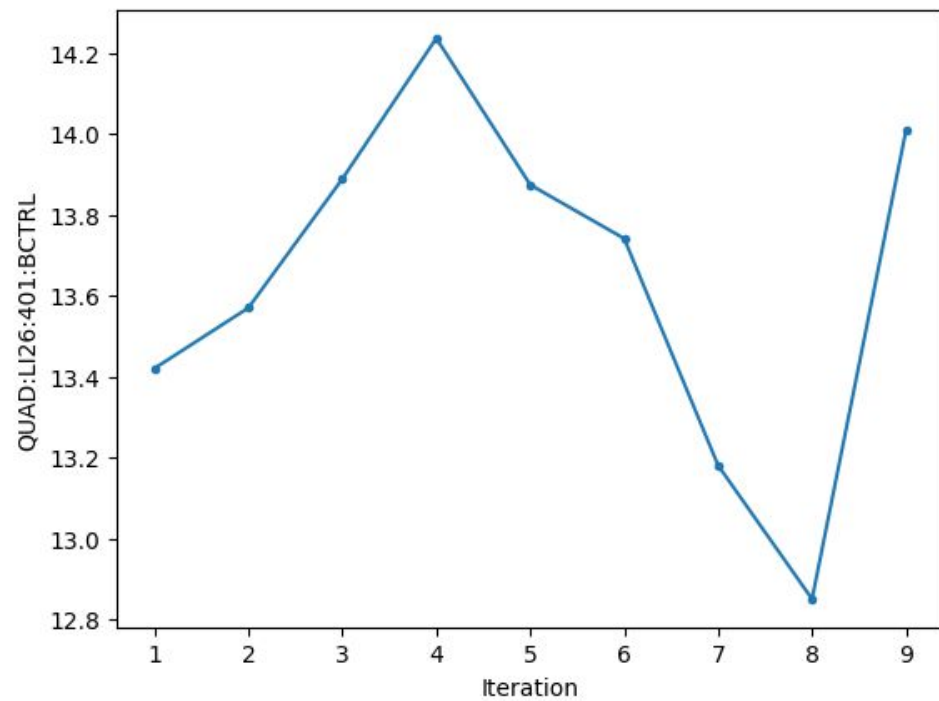
20220805\_two\_bunch\_FEL\_with\_kicker2.yaml

Variables



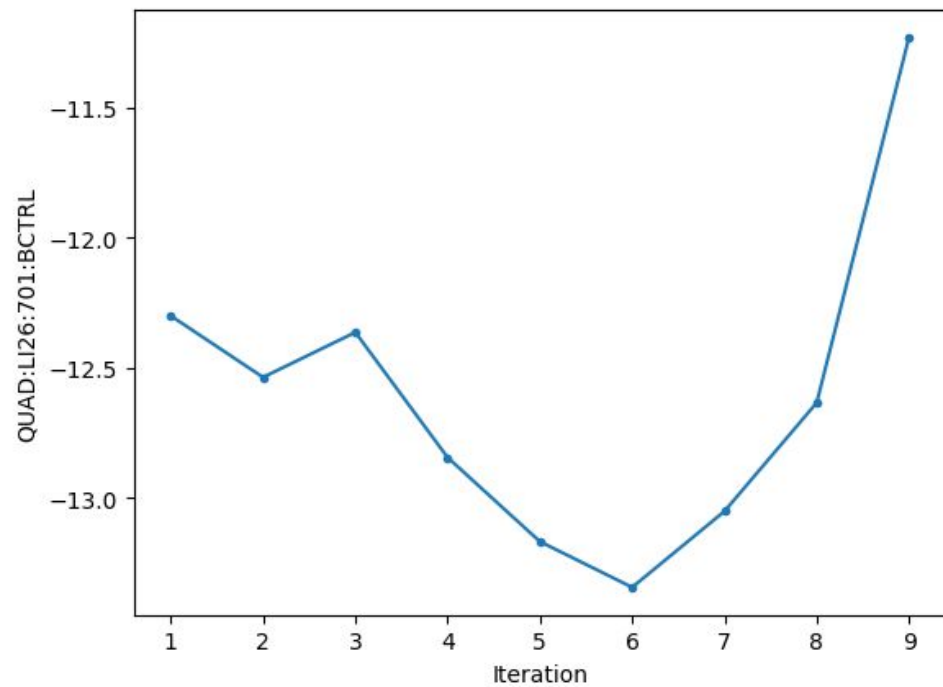
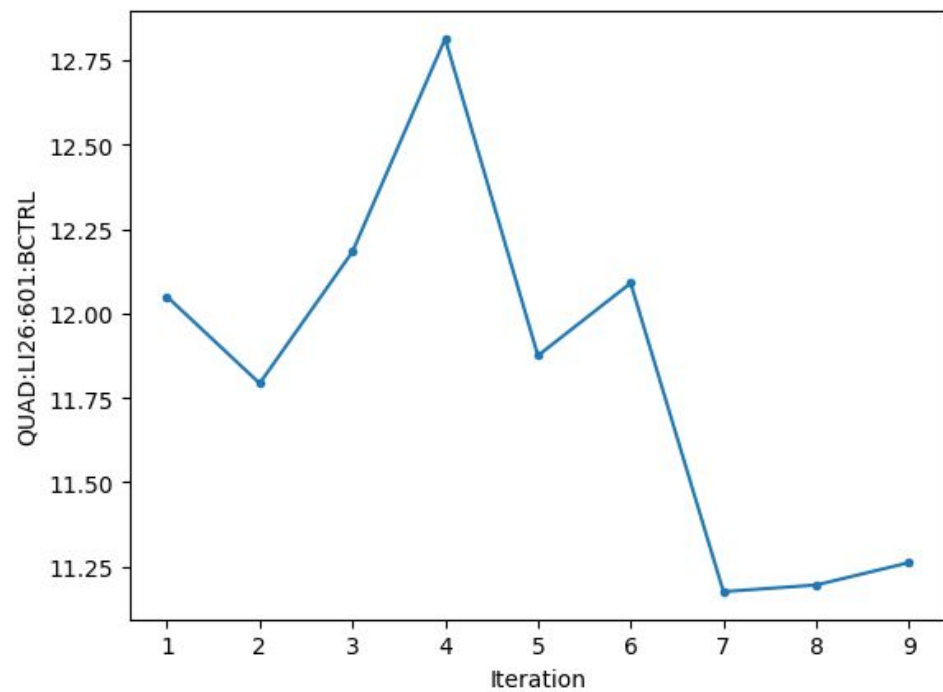
20220805\_two\_bunch\_FEL\_with\_kicker2.yaml

Variables



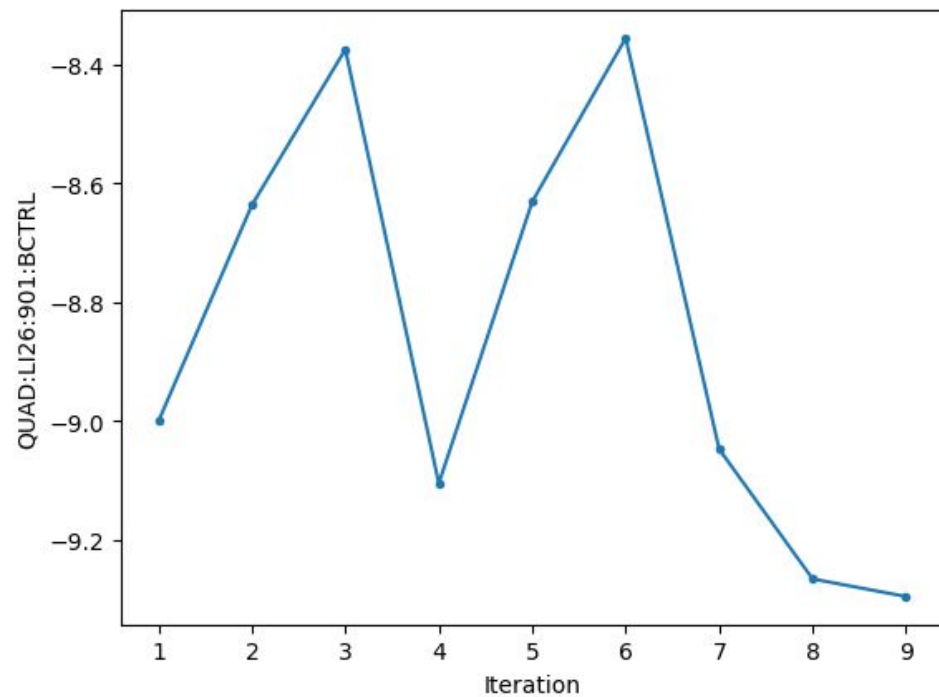
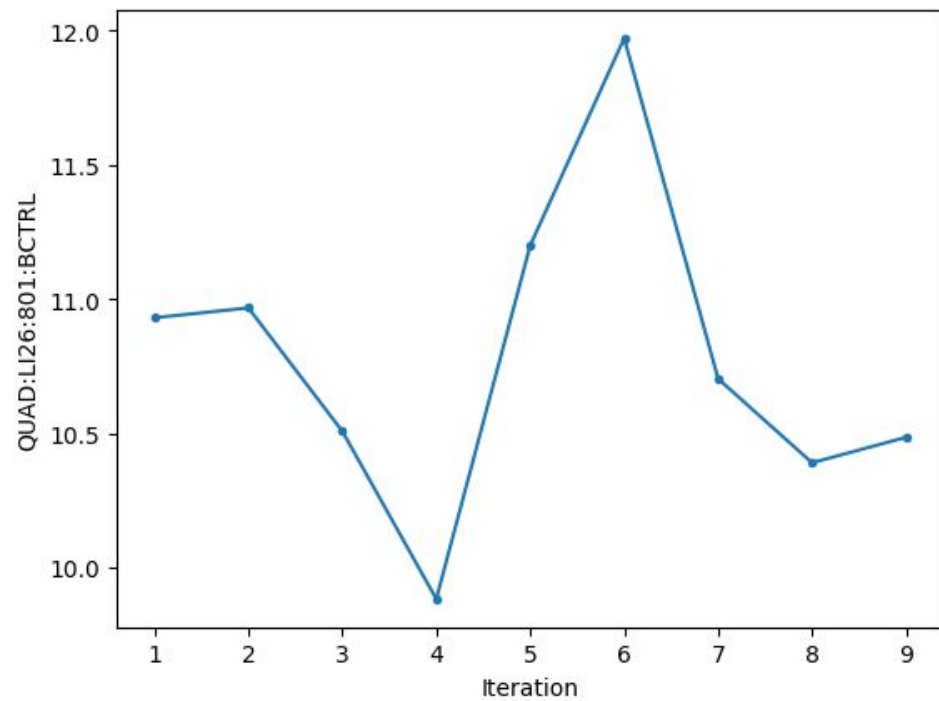
20220805\_two\_bunch\_FEL\_with\_kicker2.yaml

Variables



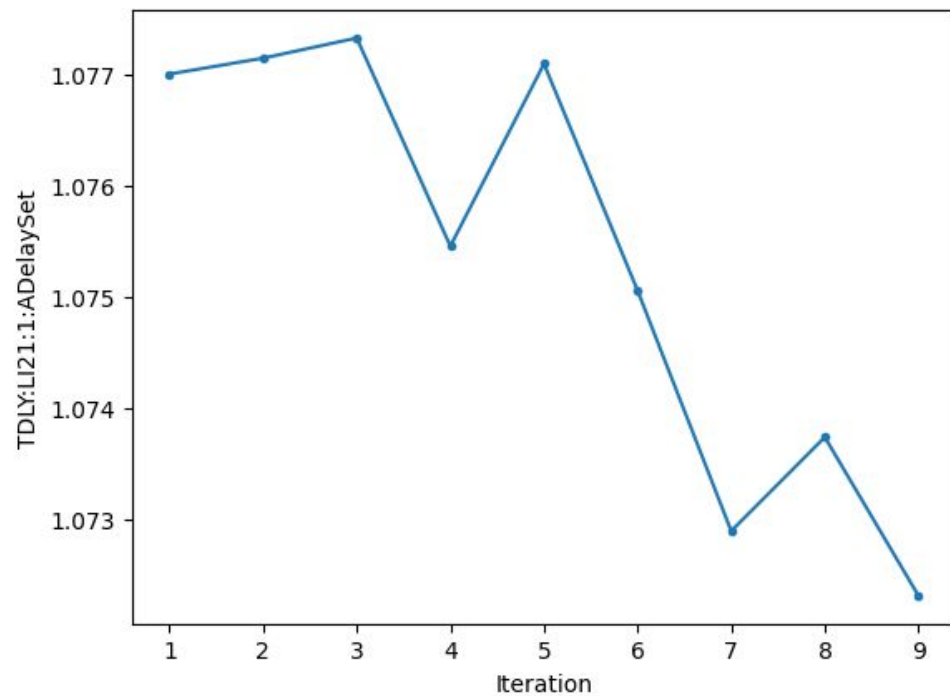
20220805\_two\_bunch\_FEL\_with\_kicker2.yaml

Variables



20220805\_two\_bunch\_FEL\_with\_kicker2.yaml

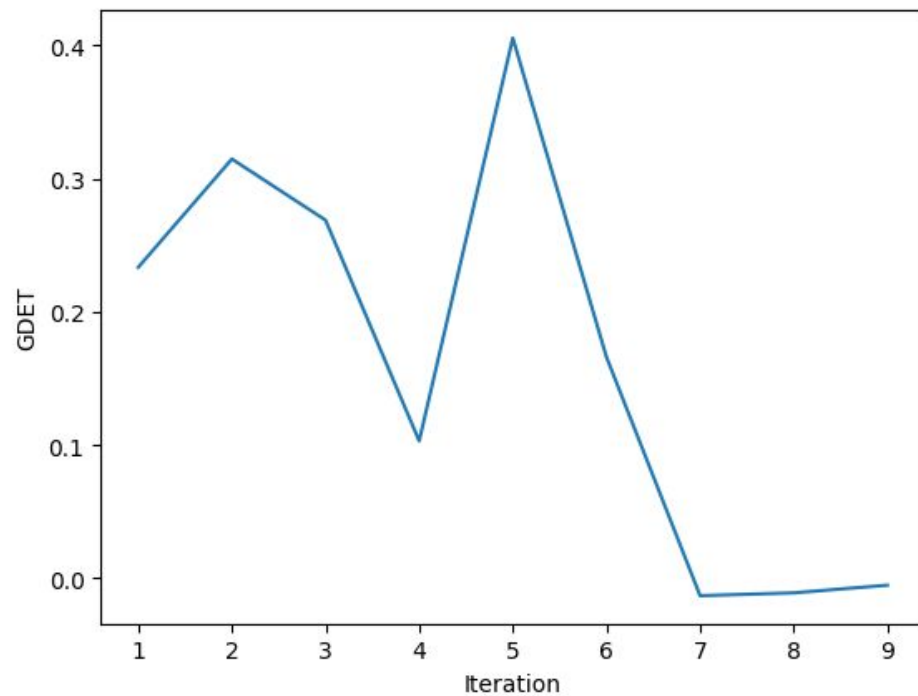
Variables





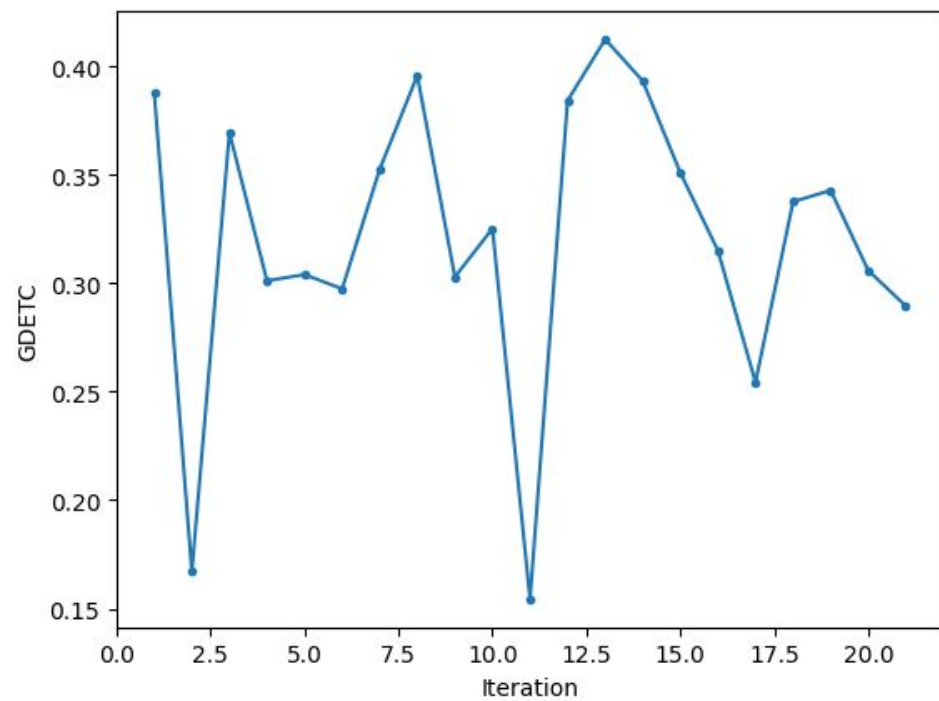
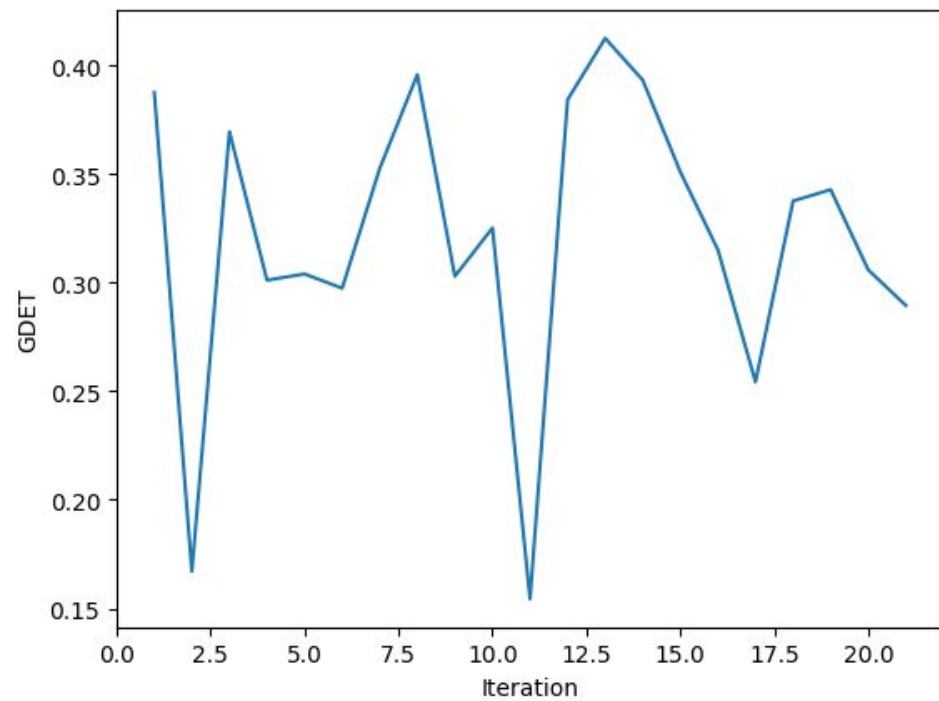
20220805\_two\_bunch\_FEL\_with\_kicker2.yaml

Objective(s)



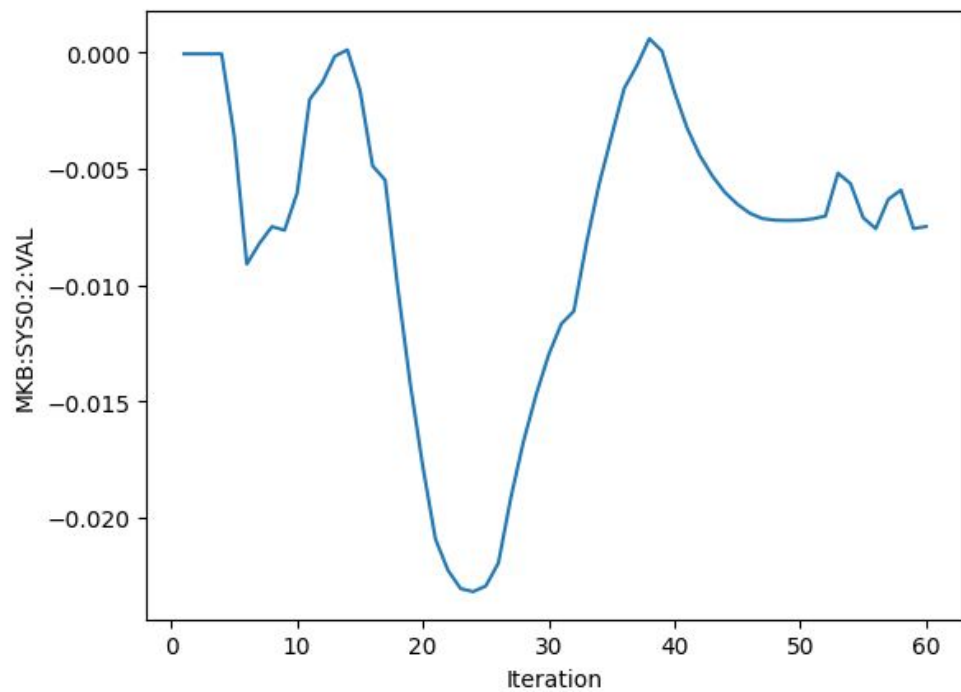
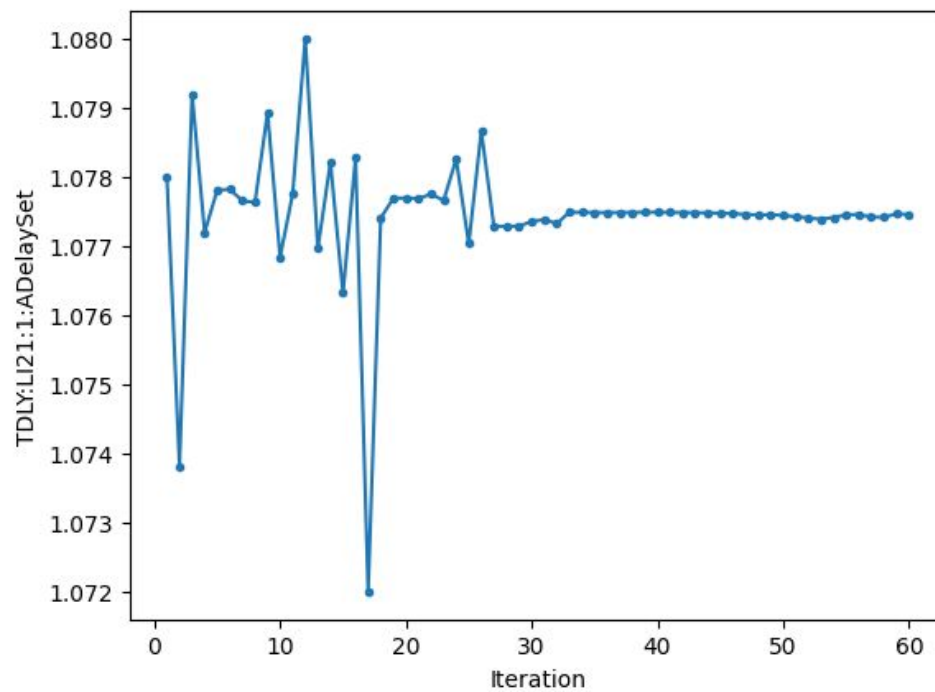
20220805\_two\_bunch\_FEL\_with\_kicker\_multiknob.yaml

Objective(s)



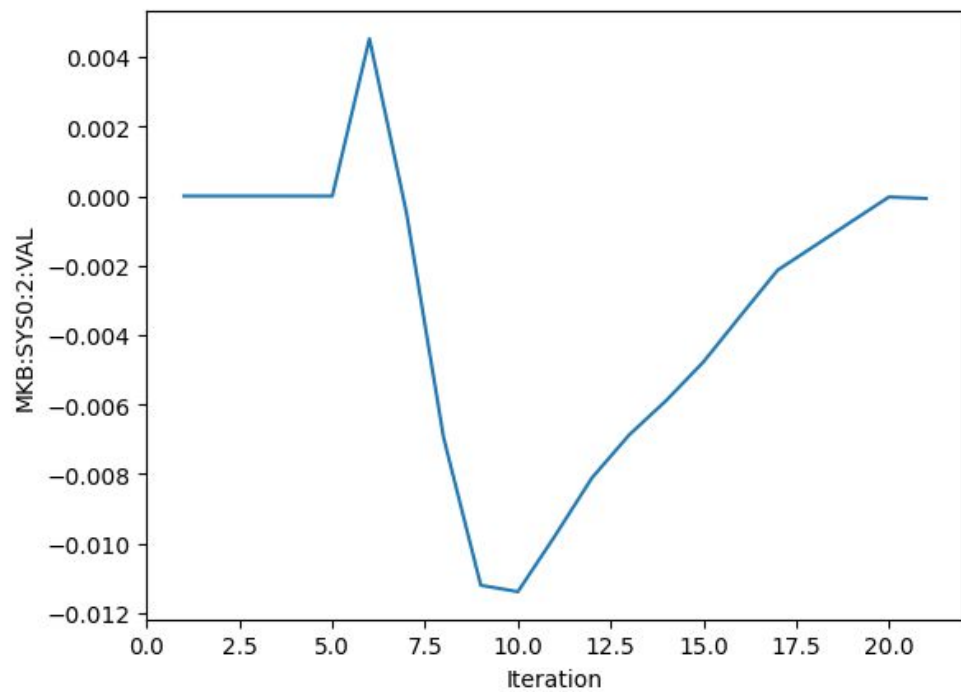
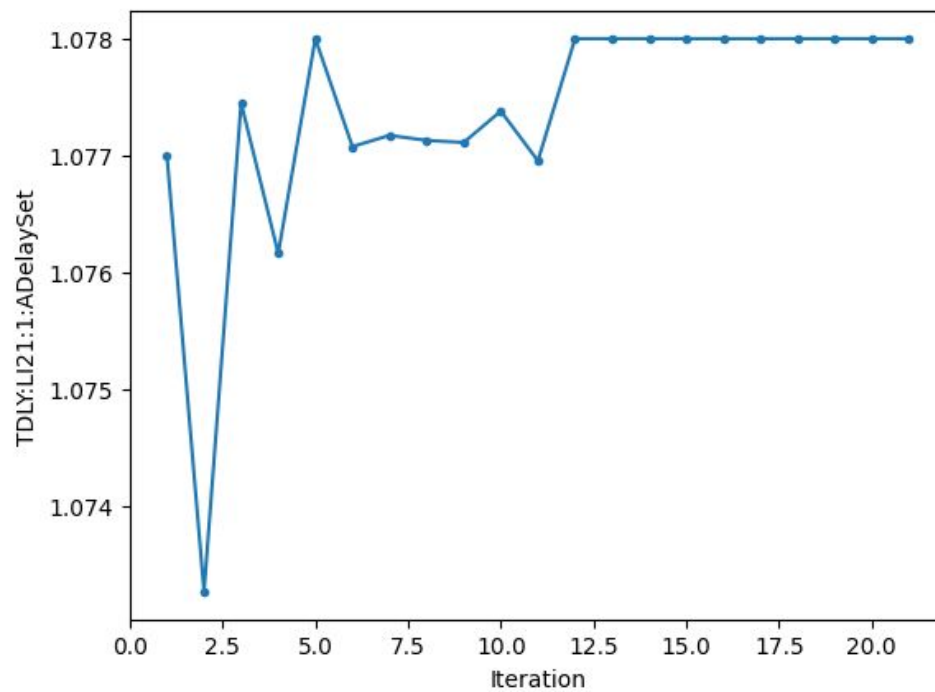
20220805\_two\_bunch\_FEL\_with\_kicker\_multiknob2.yaml

Variables



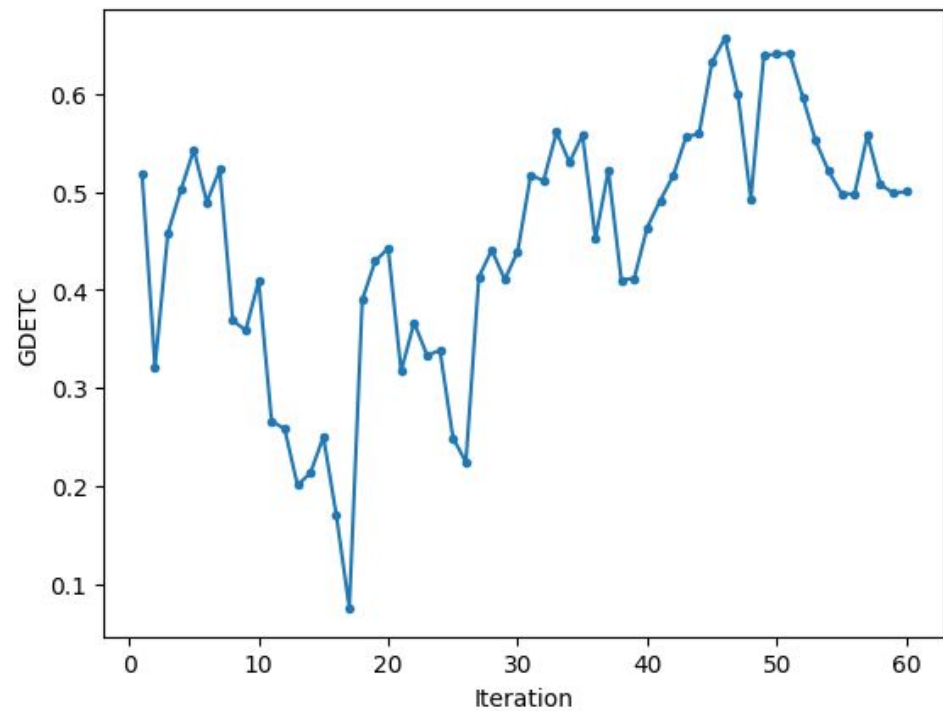
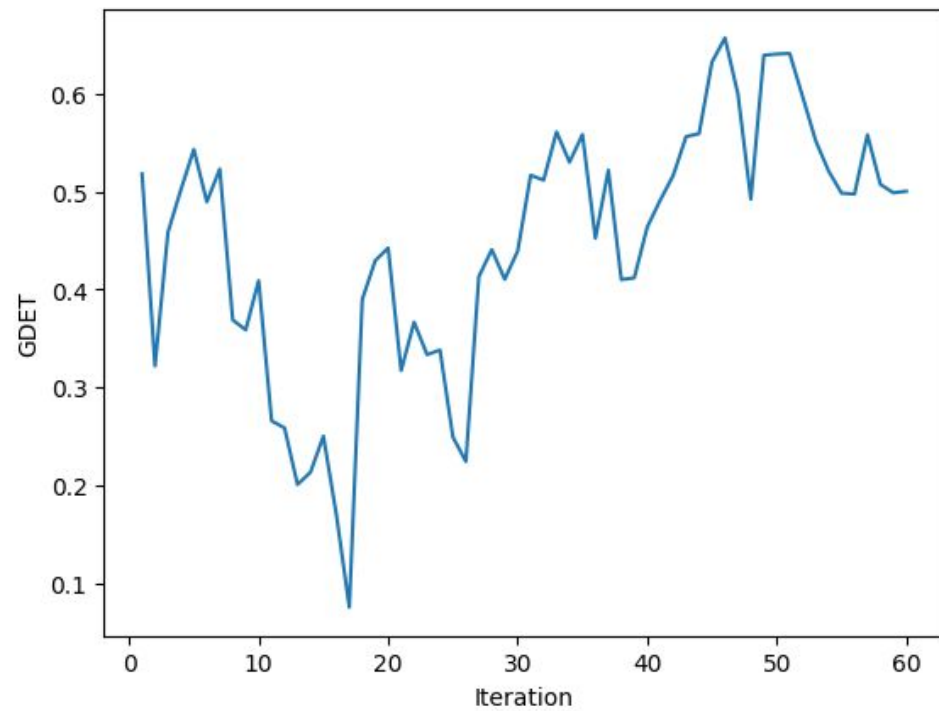
20220805\_two\_bunch\_FEL\_with\_kicker\_multiknob.yaml

Variables



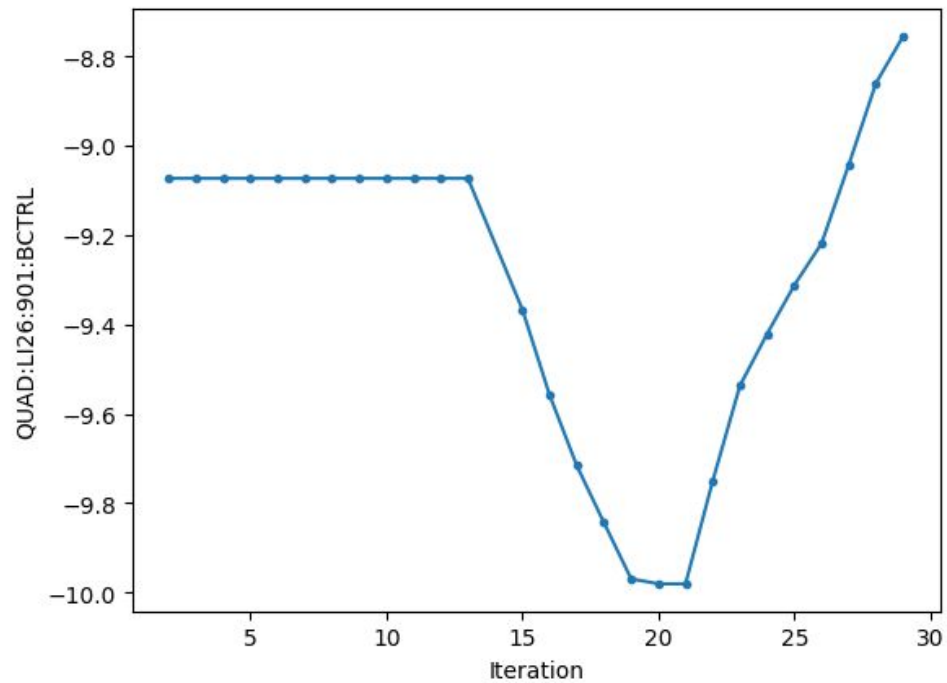
20220805\_two\_bunch\_FEL\_with\_kicker\_multiknob2.yaml

Objective(s)



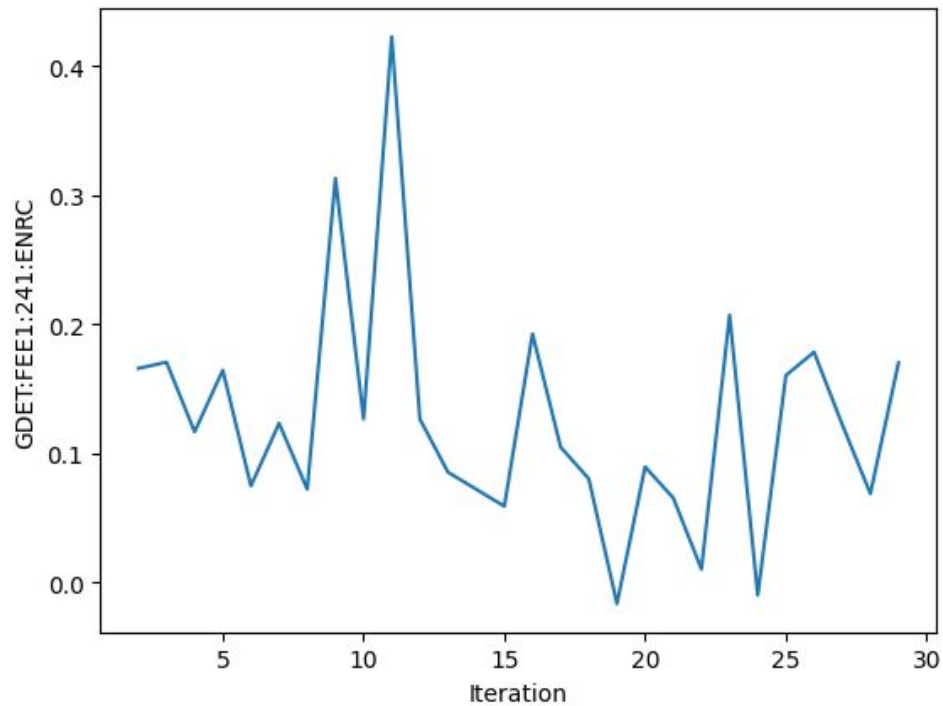
20220805\_two\_bunch\_FEL\_test.yaml

Variables



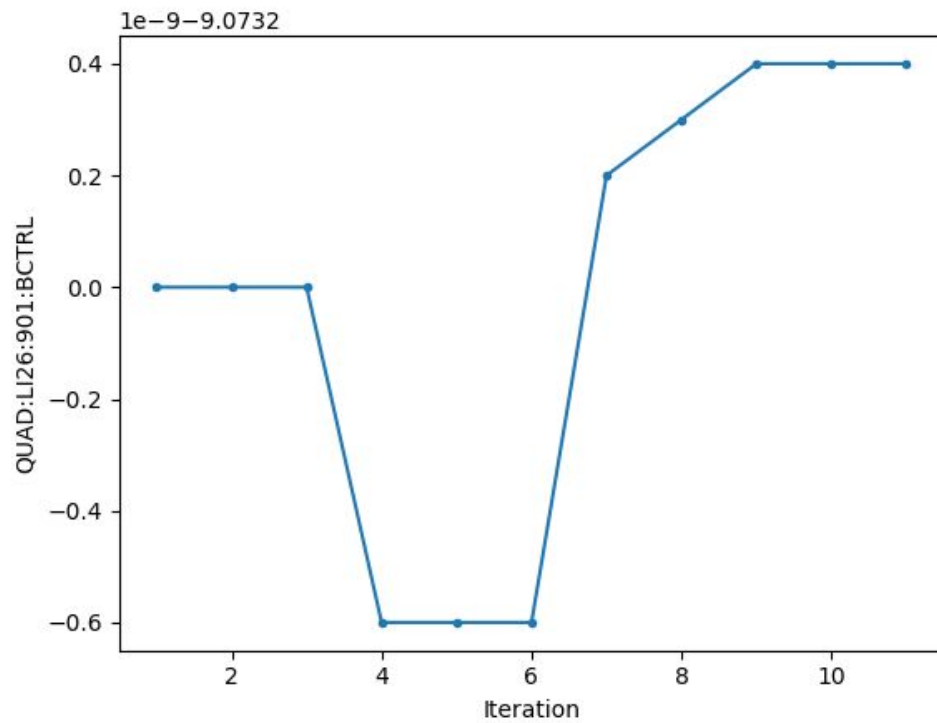
20220805\_two\_bunch\_FEL\_test.yaml

Objective(s)



20220805\_two\_bunch\_FEL\_test2.yaml

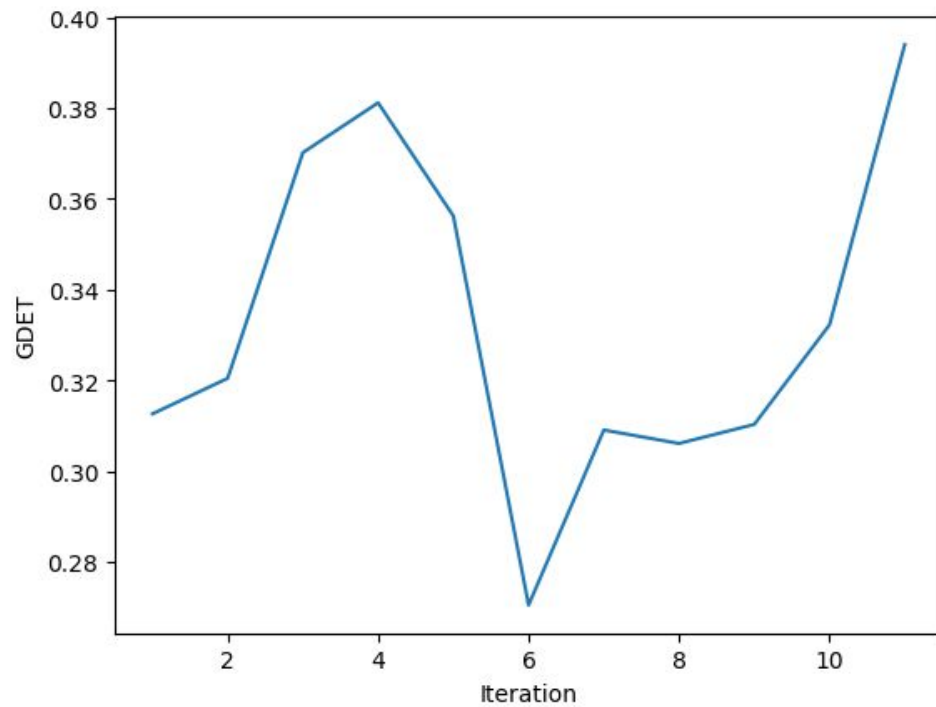
Variables





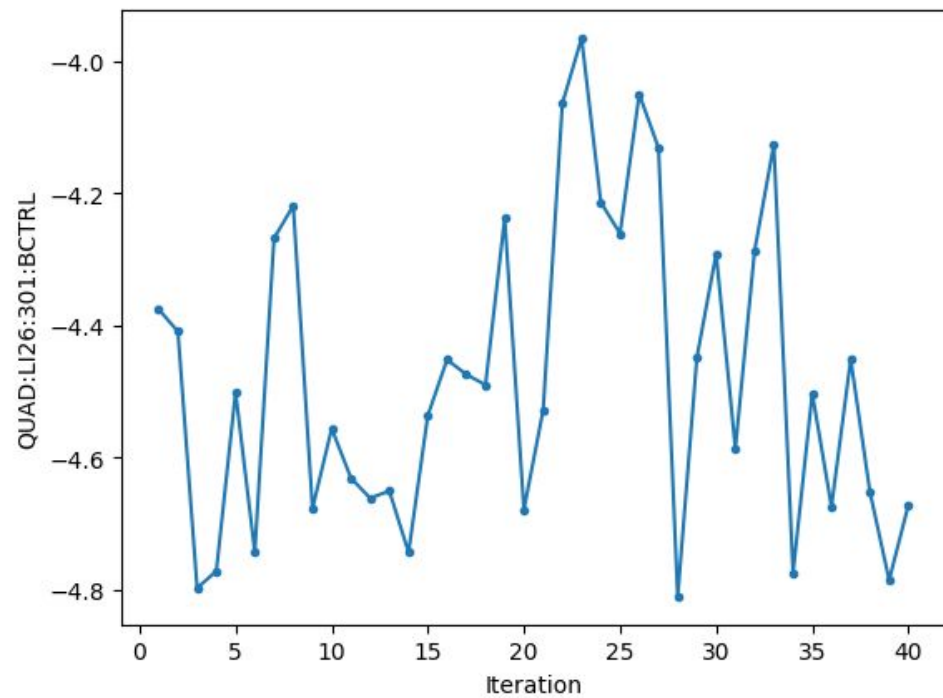
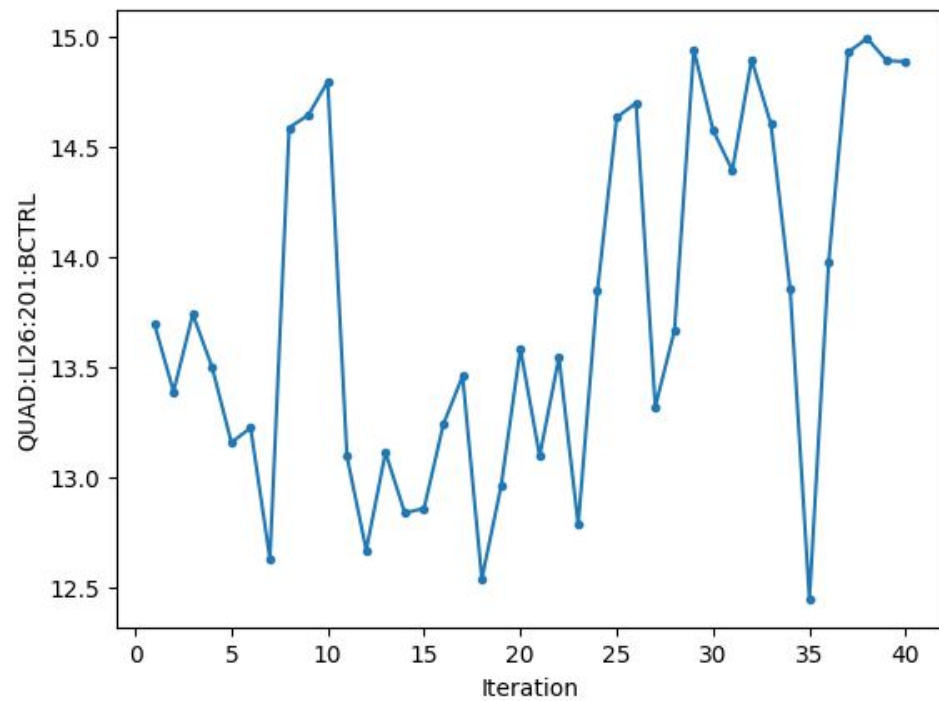
20220805\_two\_bunch\_FEL\_test2.yaml

Objective(s)



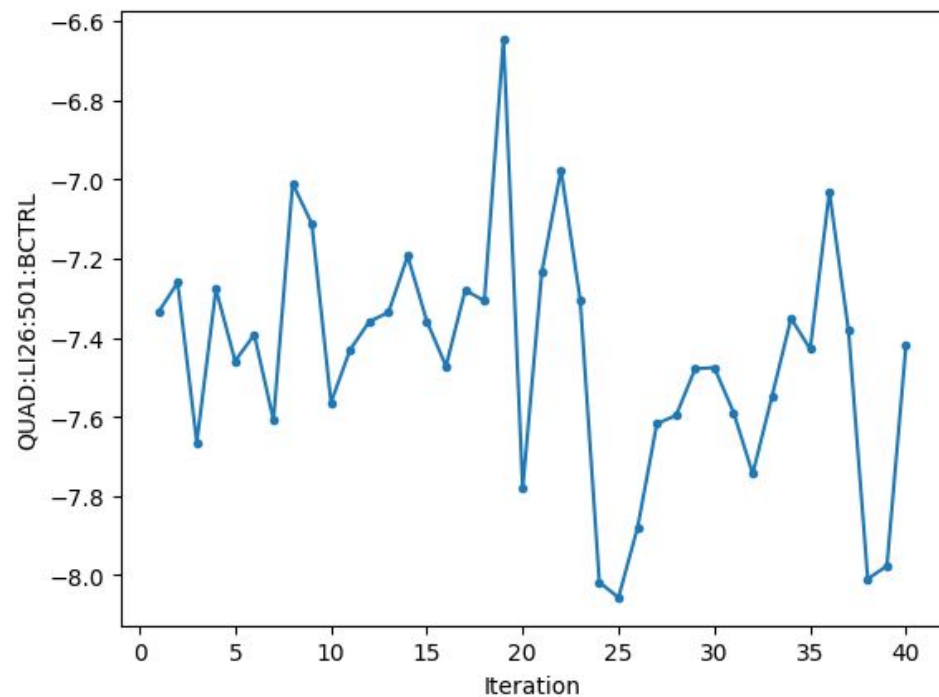
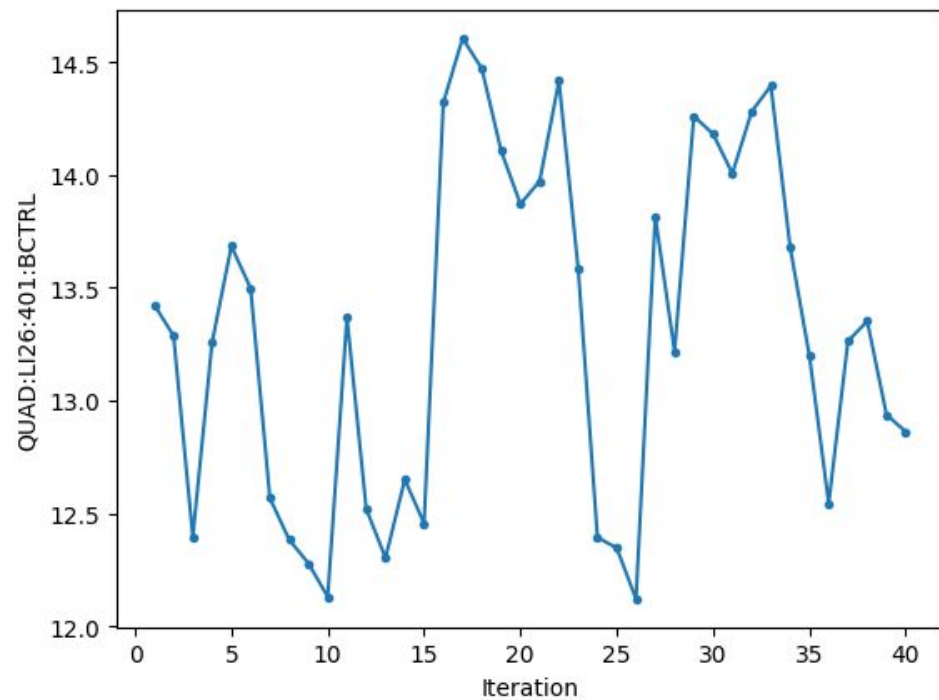
20220805\_two\_bunch\_FEL\_repeat\_after\_multiknob.yaml

Variables



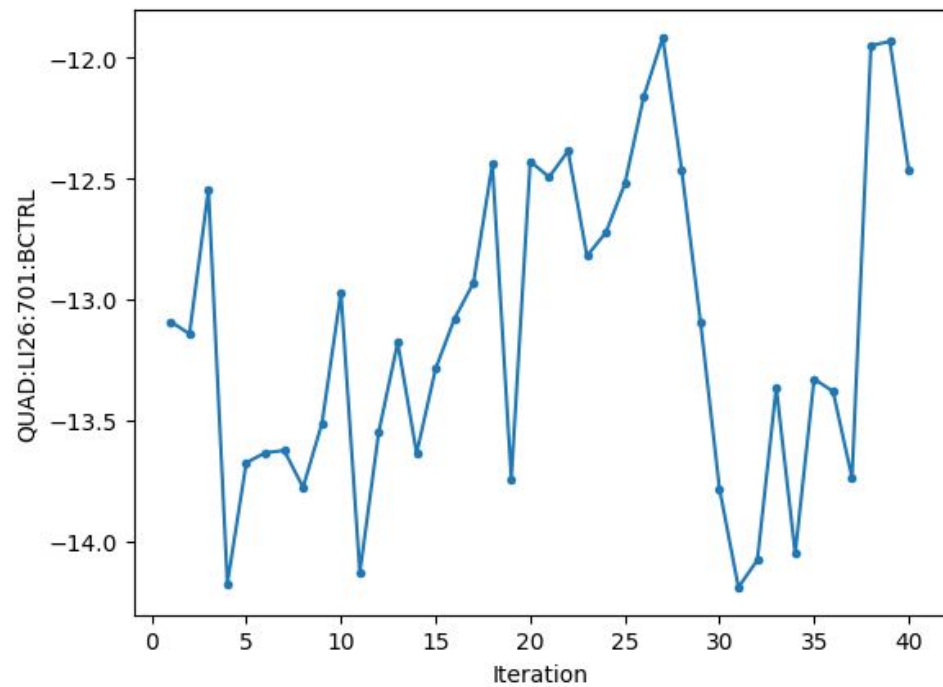
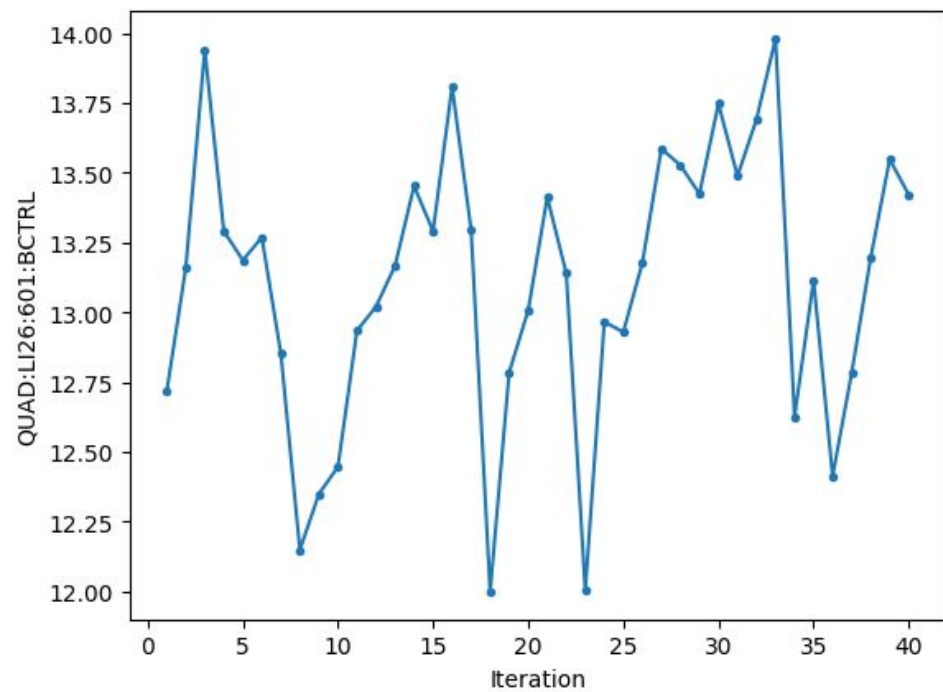
20220805\_two\_bunch\_FEL\_repeat\_after\_multiknob.yaml

Variables



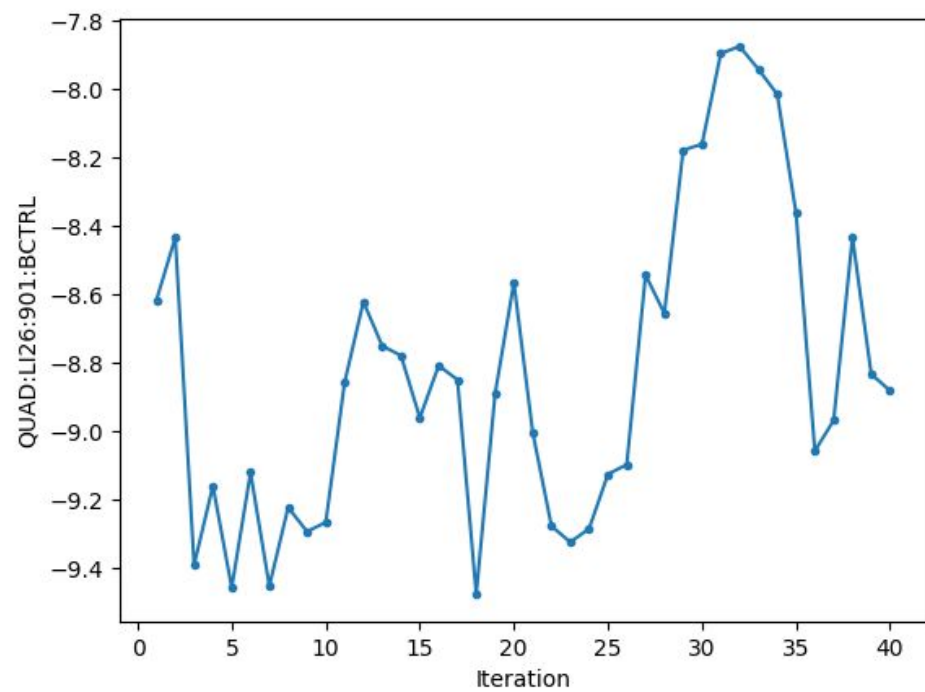
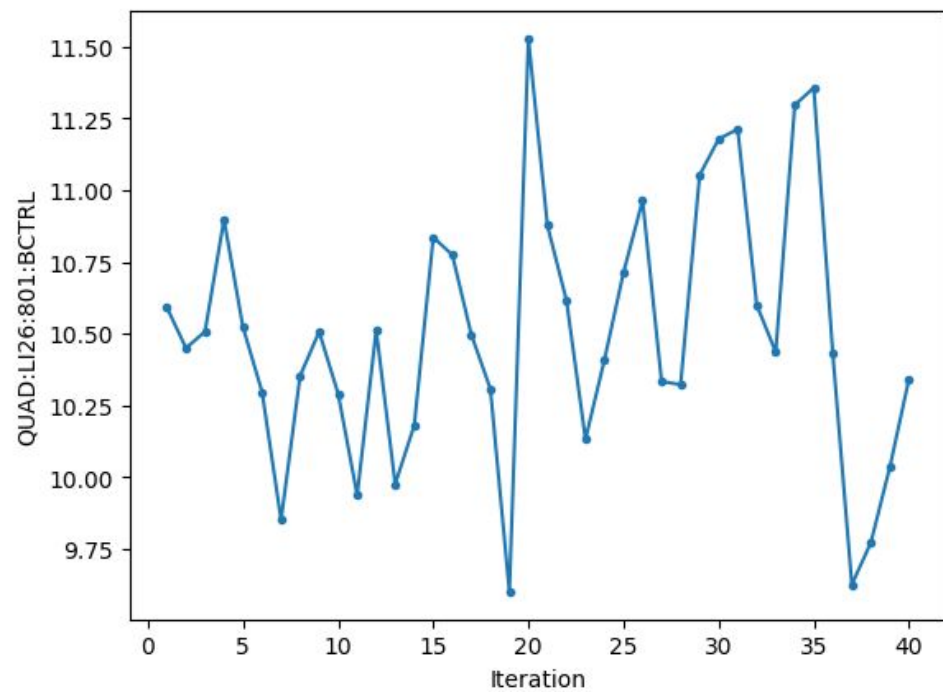
20220805\_two\_bunch\_FEL\_repeat\_after\_multiknob.yaml

Variables



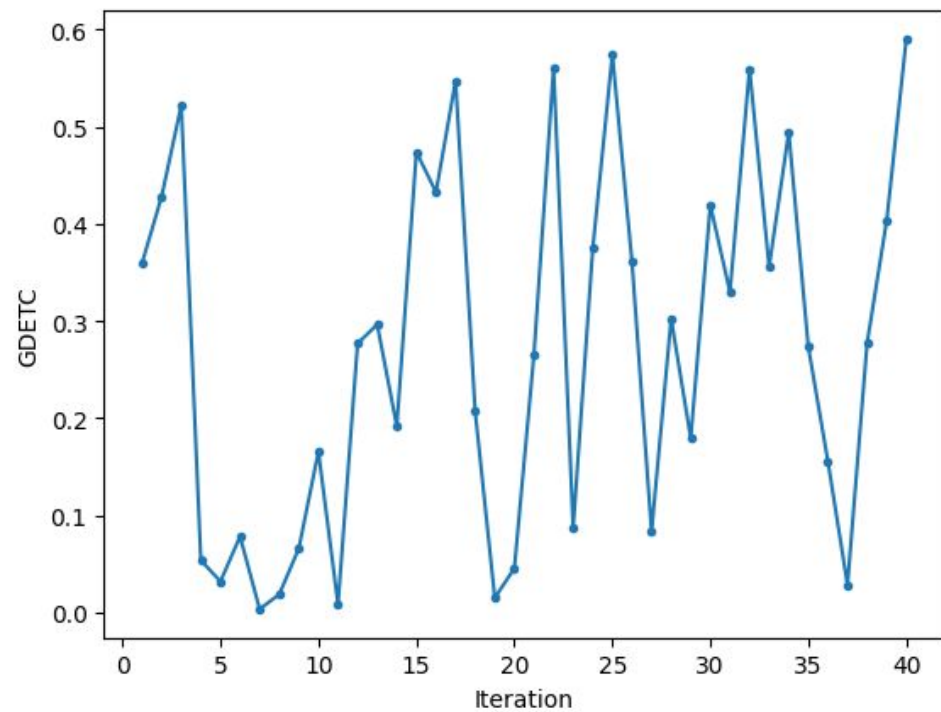
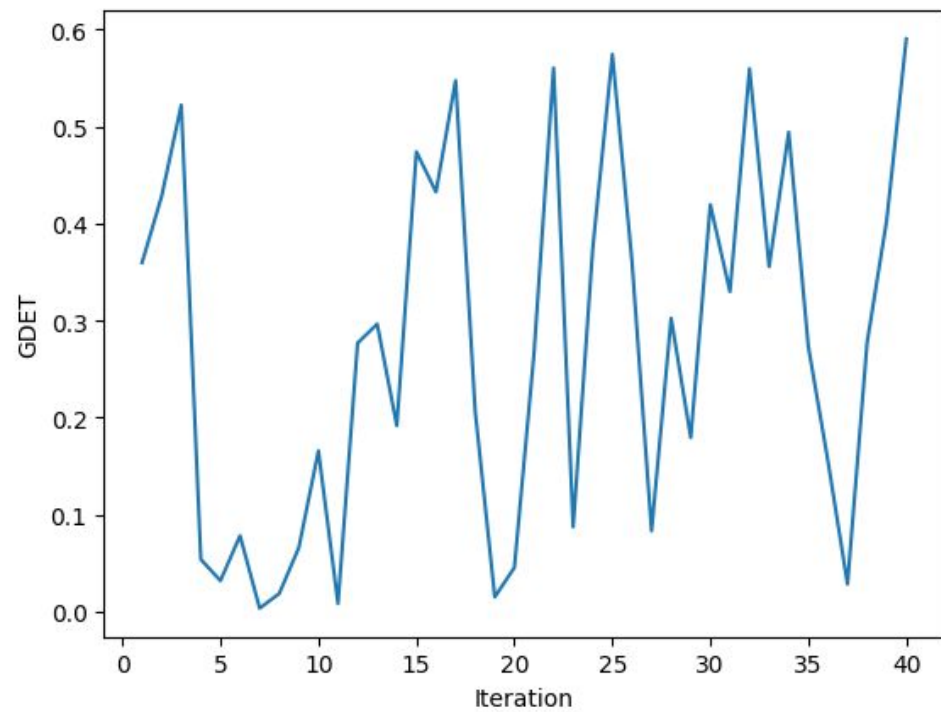
20220805\_two\_bunch\_FEL\_repeat\_after\_multiknob.yaml

Variables



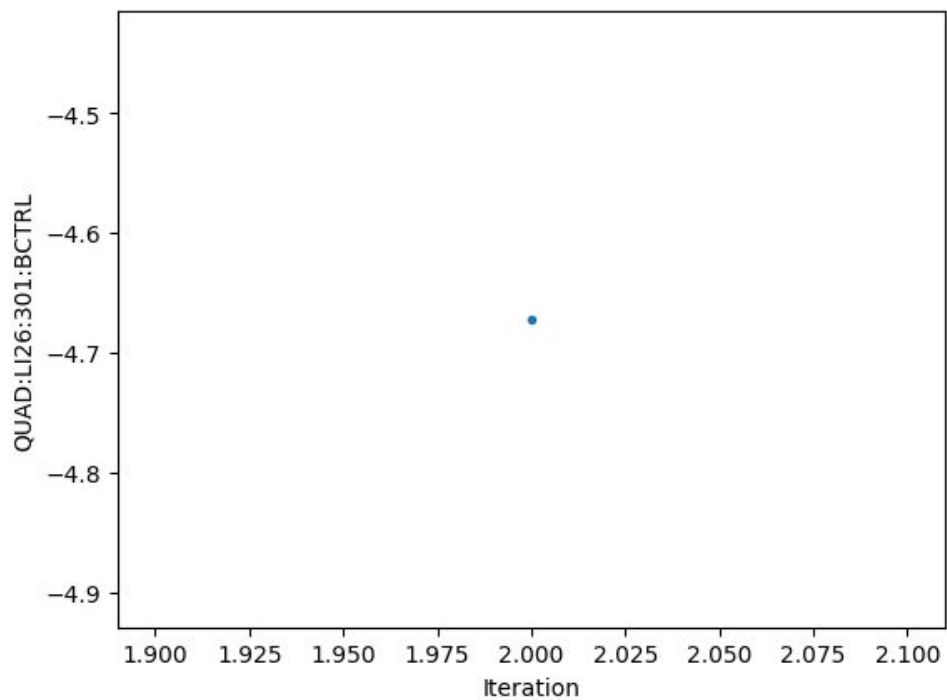
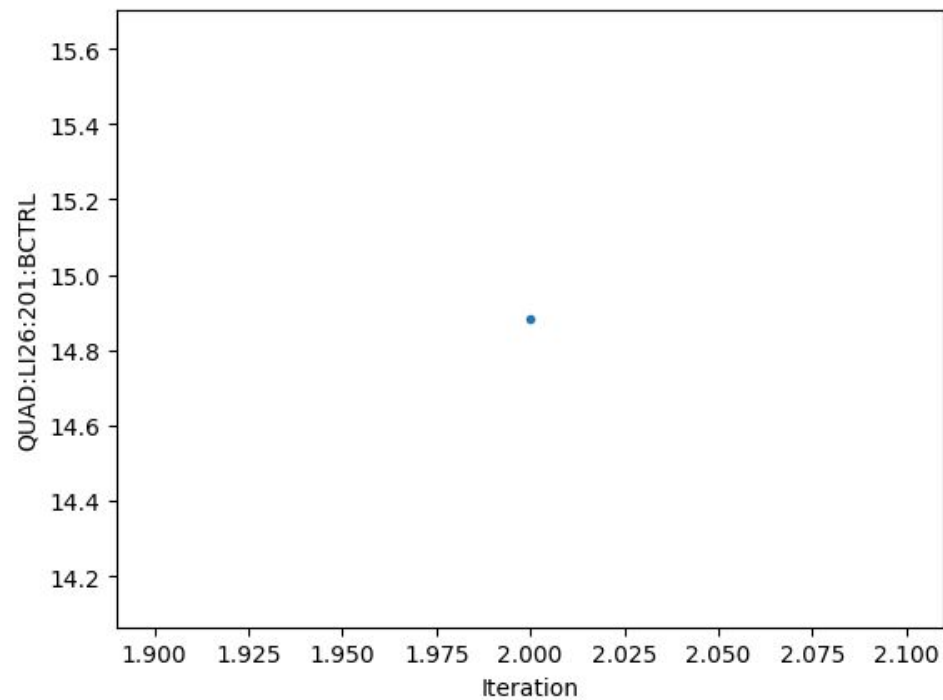
20220805\_two\_bunch\_FEL\_repeat\_after\_multiknob.yaml

Objective(s)



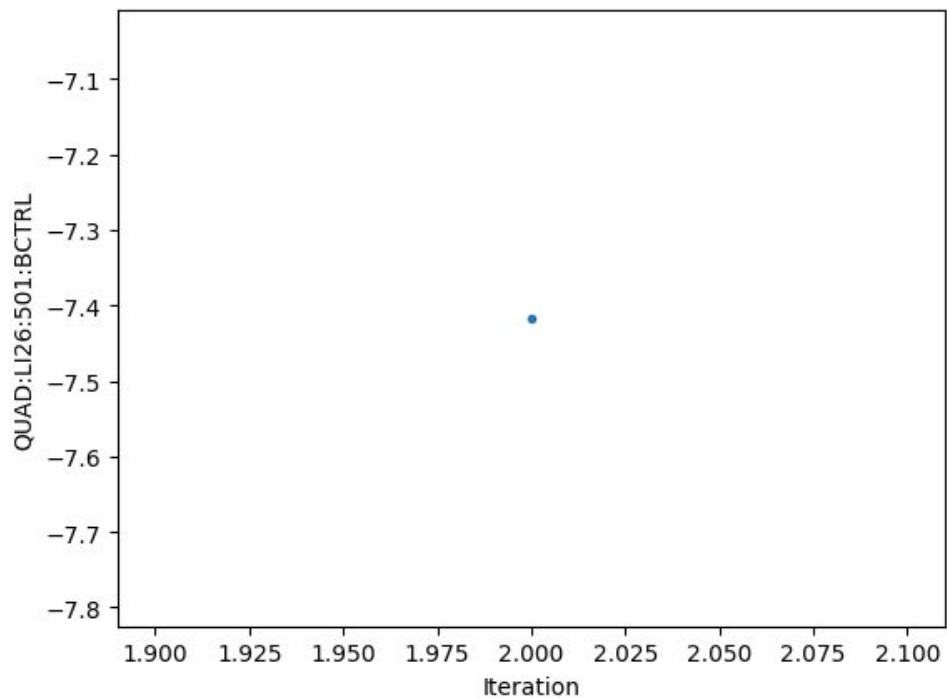
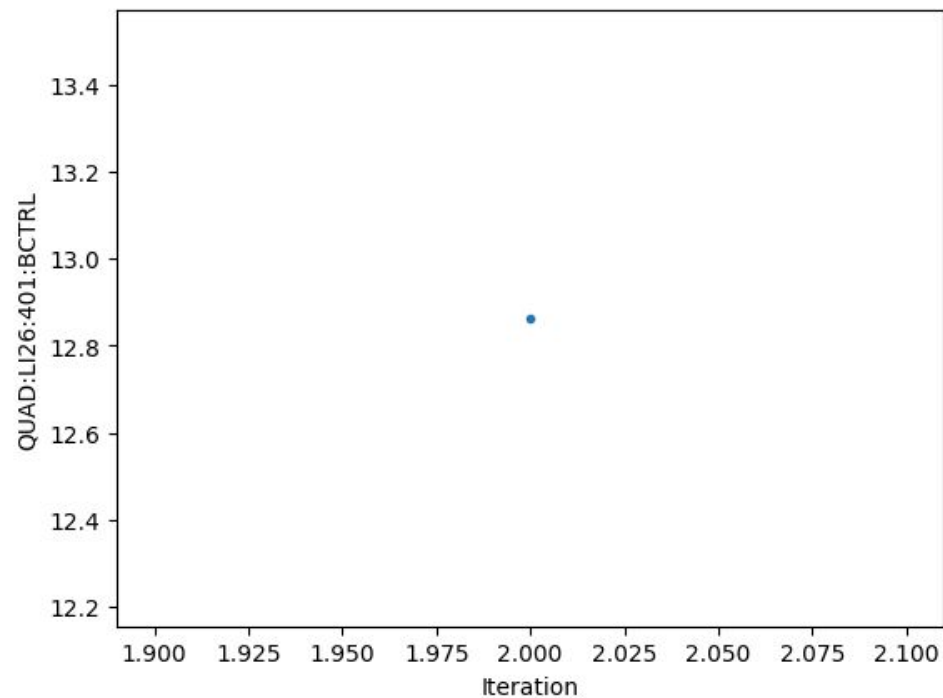
20220805\_two\_bunch\_FEL\_multiknob\_kicker\_with\_quads.yaml

Variables



20220805\_two\_bunch\_FEL\_multiknob\_kicker\_with\_quads.yaml

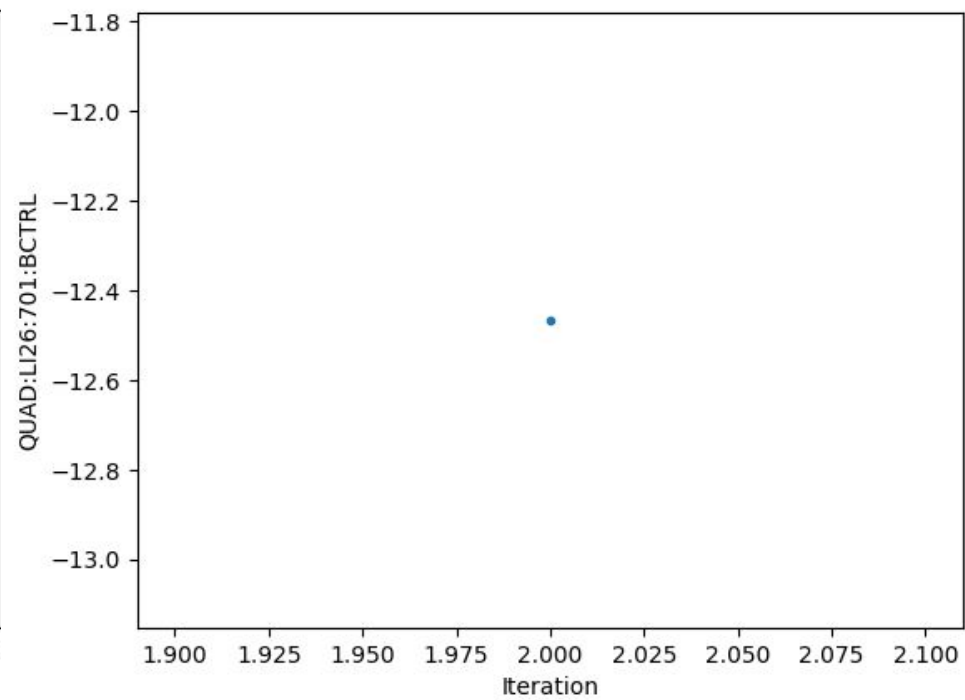
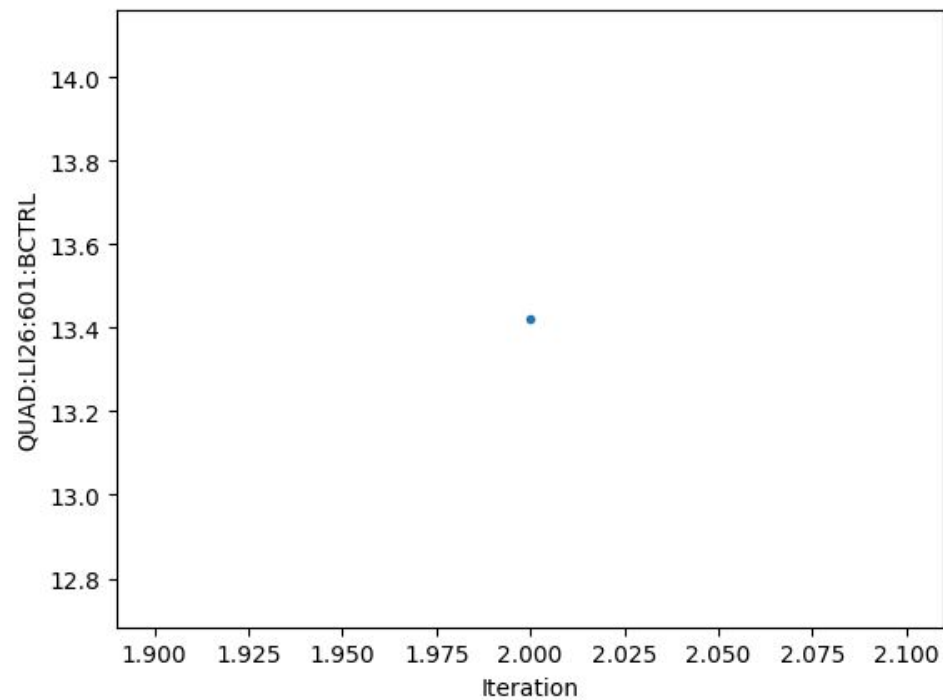
Variables





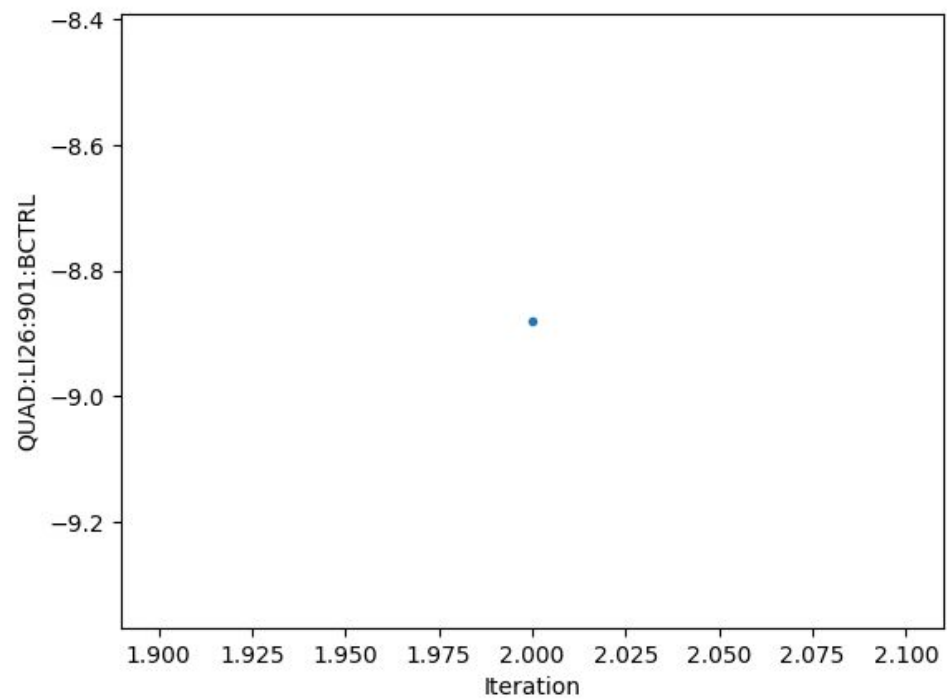
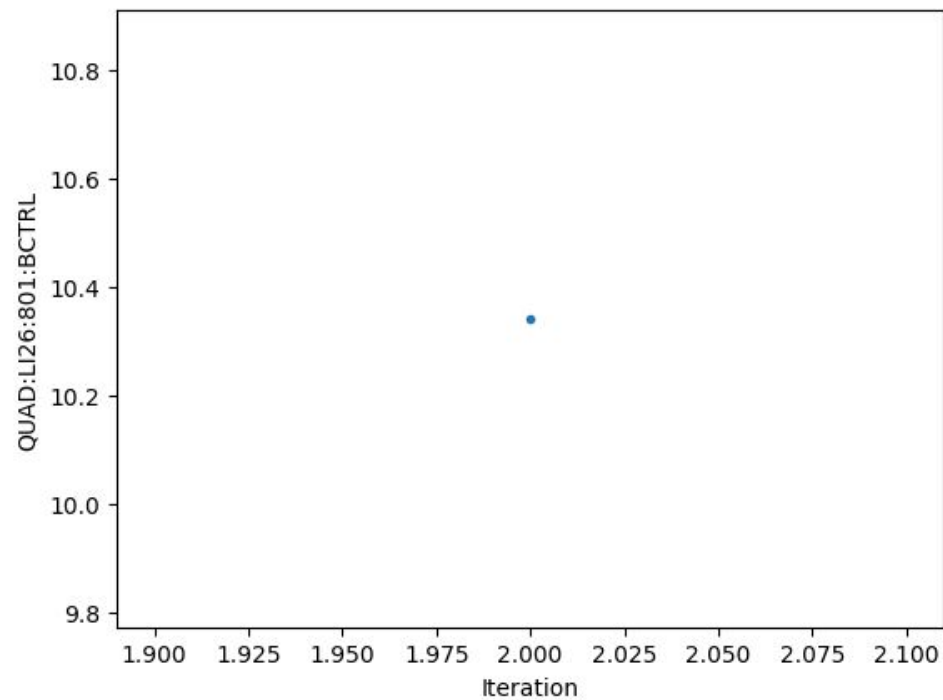
20220805\_two\_bunch\_FEL\_multiknob\_kicker\_with\_quads.yaml

Variables



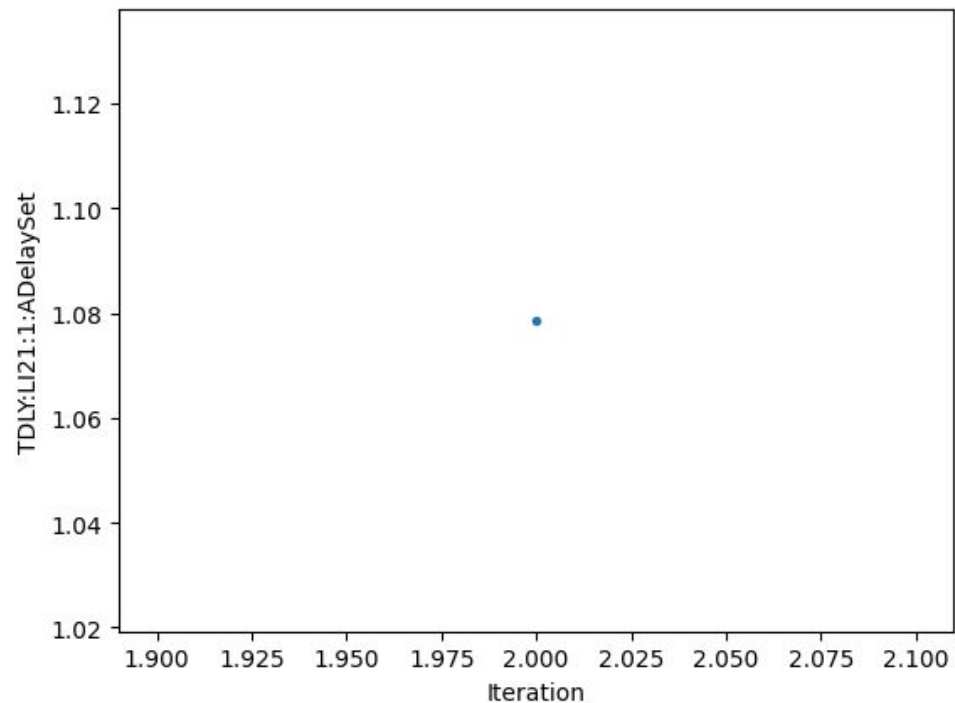
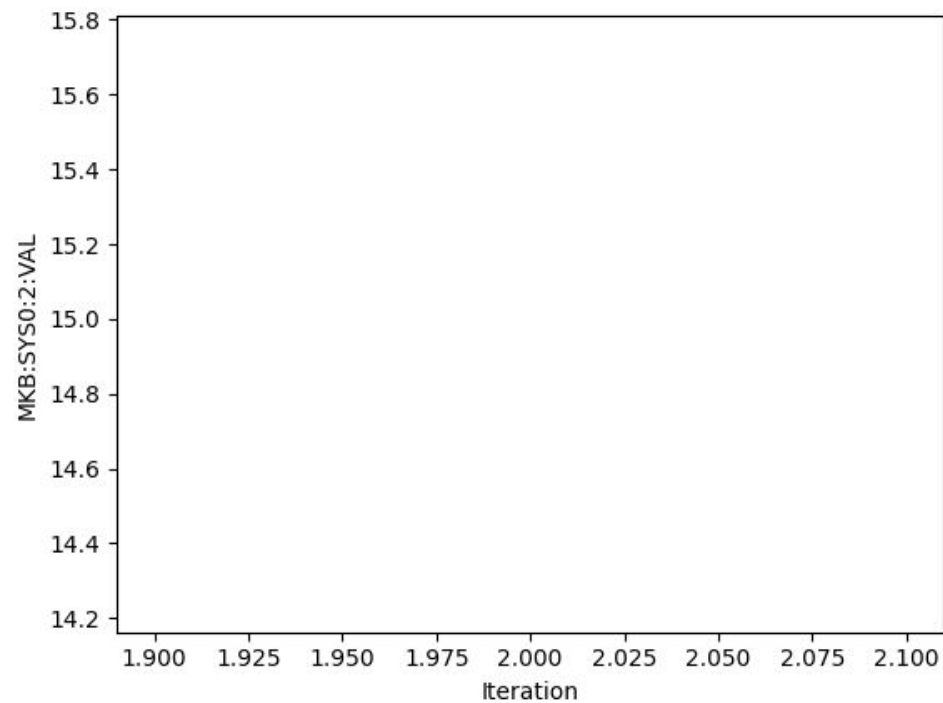
20220805\_two\_bunch\_FEL\_multiknob\_kicker\_with\_quads.yaml

Variables



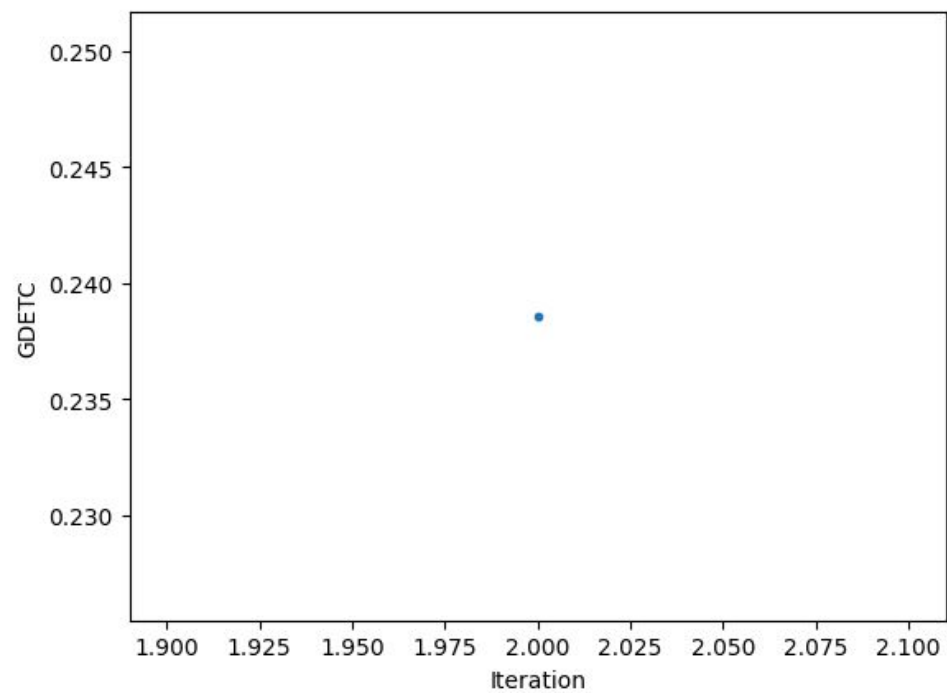
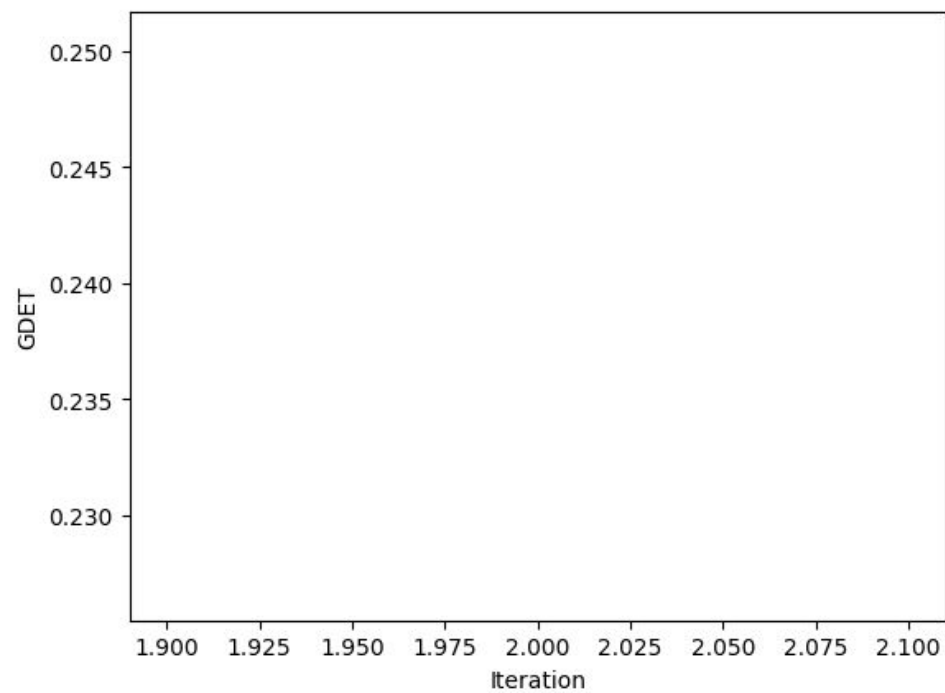
20220805\_two\_bunch\_FEL\_multiknob\_kicker\_with\_quads.yaml

Variables



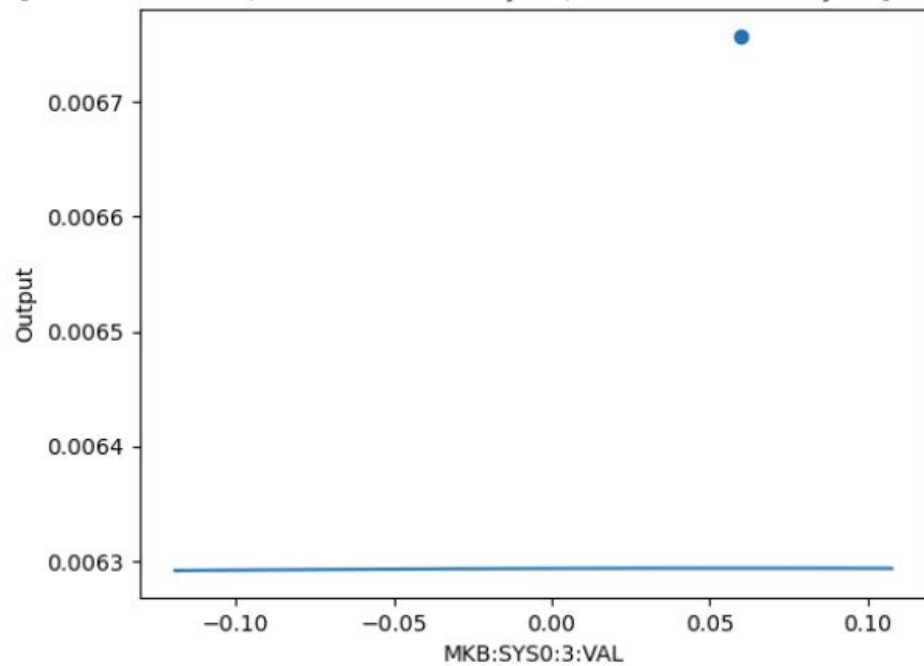
20220805\_two\_bunch\_FEL\_multiknob\_kicker\_with\_quads.yaml

Objective(s)

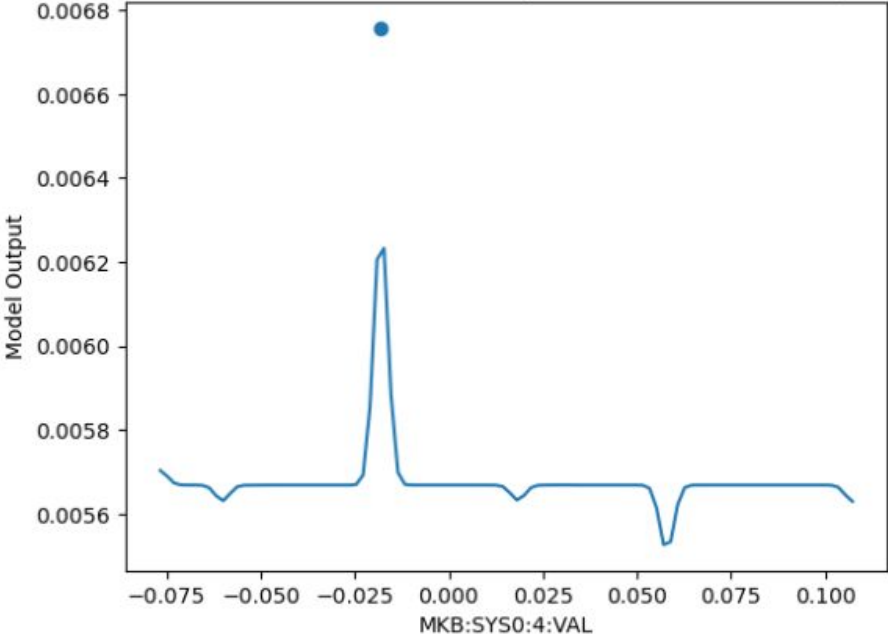


# GP Plots

obj\_sum vs MKB:SYS0:3:VAL for [MKB:SYS0:4:VAL, TDLY:LI21:1:ADelaySet, TDLY:LI21:1:CDelaySet] = [-0.018070634, 0.10827365, 0.1113082]

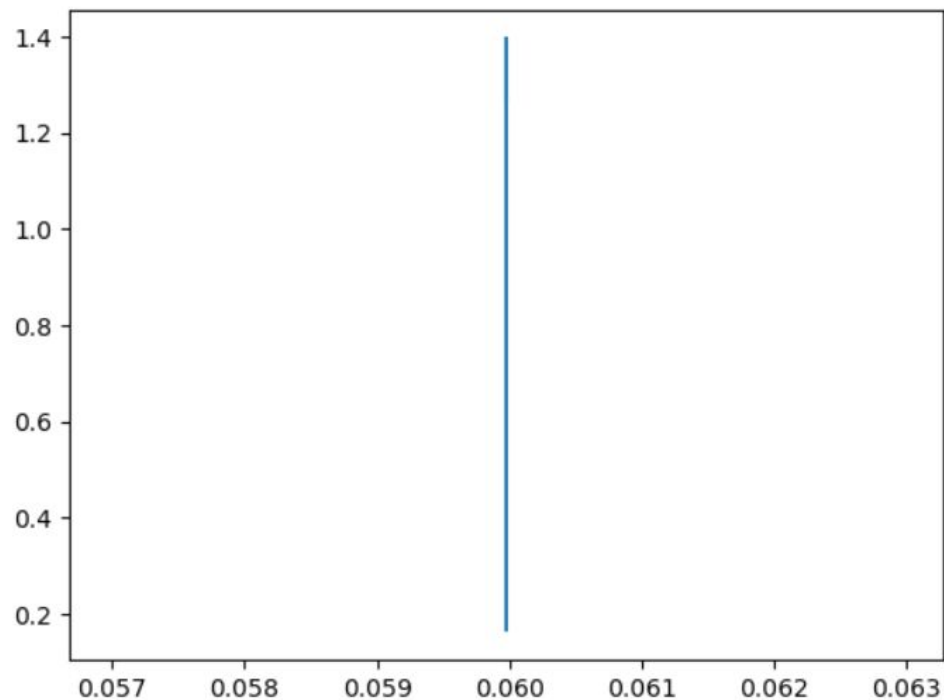


Posterior Mean vs MKB:SYS0:4:VAL for [MKB:SYS0:3:VAL, TDLY:LI21:1:ADelaySet, TDLY:LI21:1:CDelaySet] = [0.059973408, 0.10827365, 0.1113082]



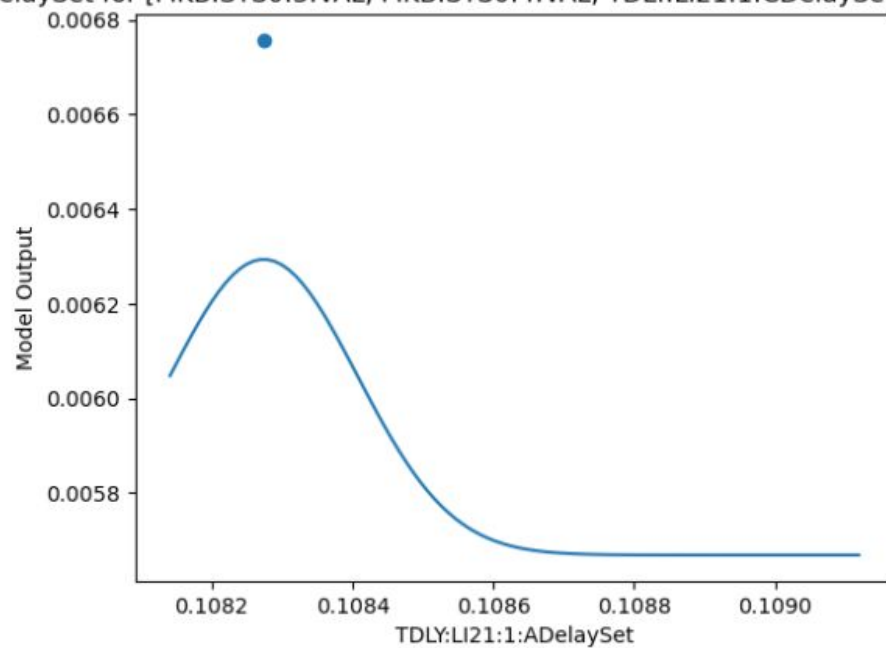
```
In [22]: 1 pred_ys = model(test_xs).mean  
2 plt.plot(test_xs[:,0].detach().numpy(), pred_ys.detach().numpy())
```

```
Out[22]: [<matplotlib.lines.Line2D at 0x1fbc9db28e0>]
```





Posterior Mean vs TDLY:LI21:1:ADelaySet for [MKB:SYS0:3:VAL, MKB:SYS0:4:VAL, TDLY:LI21:1:CDelaySet] = [0.059973408, 0.10827365, 0.1113082]



Posterior Mean vs TDLY:LI21:1:CDelaySet for [MKB:SYS0:3:VAL, MKB:SYS0:4:VAL, TDLY:LI21:1:ADelaySet] = [0.059973408, 0.10827365, 0.1113082]

