PLQY SOP

Hardware:

* Turn on TEC control on laser driver
* Turn on Laser Diode Control
* Gain set to 40 on photodiode
* Make sure lock in is connected to PLQY cable

Control code:

#Pull up terminal --> start button, cmd prompt

* iPython
* from PLQY import control
* plqy = control.PLQY(810)

#reset the stepper motor to zero

* plqy.stepper.arduino.close()
* plqy.stepper.arduino.open()
* cd … date\_samplename

#example: 20230712\_iPACl\_Aged in jacks PLQY\_Setup Data folder

#to take intensity dependent PLQY:

#find this code in test functions.py

* Import numpy as np
* currents = np.arange(300, 800, 20)
  + for curr in currents:
    - plqy.take\_PLQY(f’sample\_name\_{curr})’, max\_current = curr, n\_avg = 10, time\_constant = 0.1, freq setpoint = 993.0)