**QSSPL**

**Hardware instructions:**

**Turn lock-in amplifier on.**

**Place sample into integrating sphere sample holder.**

**Software instructions:**

**Type into the terminal/command line:**

ipython

from QSSPL import qsspl

c = qsspl.QSSPL()

c.take\_qsspl(sample\_name = “name\_your\_sample”)

**Optional arguments:**

# Method to take QSSPL measurements

def take\_qsspl(self, sample\_name = "sample", min\_current = 300, max\_current = 780, waveform = "square", rest = 0.1):

""" Method to take QSSPL measurements

Args:

sample\_name (str, optional): Name of sample. Defaults to "sample".

min\_current (int, optional): Minimum laser current (mA). Defaults to 300.

max\_current (int, optional): Maximum laser current (mA). Defaults to 780.

step (int, optional): Step between current settings (mA). Defaults to 20.

waveform (str, optional): Shape of waveform. Defaults to "square".

rest(float, optional): Time delay between measurements (s). Defaults to 0.1 s.

"""

**If connection issues:**

1. check for available addresses

import pyvisa

rm = pyvisa.ResourceManager()

rm.list\_resources() #prints a list of available GPIB addresses

2. connect to address of your choice