**Hanzhuo Zhang**

**Interim Reflection Session**

I now have a concrete methodology that is able to produce meaningful and large quantities of data after a few modifications were made during the preliminary run. I initially planned to use a Vernier caliper to vary the slit width, but it didn’t provide the desired level of variation for the independent variable, hence I used a micrometer instead. Projecting the diffraction pattern onto a printed ruler to measure the dependent variable provided poor accuracy, so I used a modified Vernier caliper for measurement instead.

A challenge I will face in the future is that I haven’t learned how to calculate the standard deviation of continuous random variables, but finding “Δx” and “Δp” in Heisenberg’s equation from my collected data requires me to do so. Hence, I plan to learn integration ahead of my class from the HL mathematics textbook and consult my math teacher to acquire the skills and knowledge required to process my data in the future.