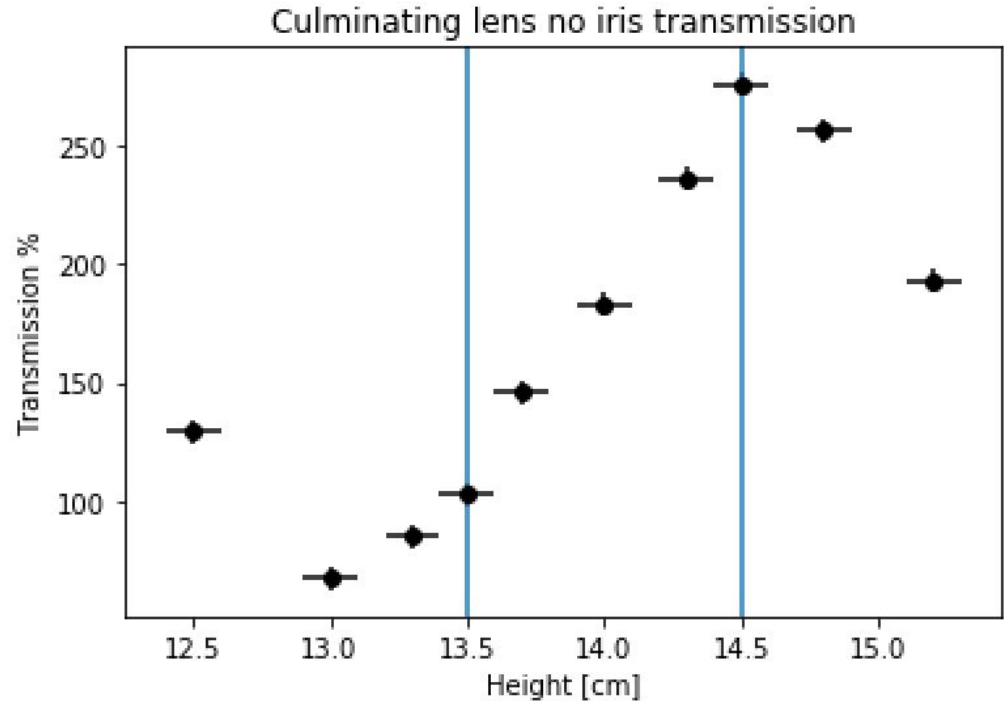


# Weekly Update

Nov 1, 2017

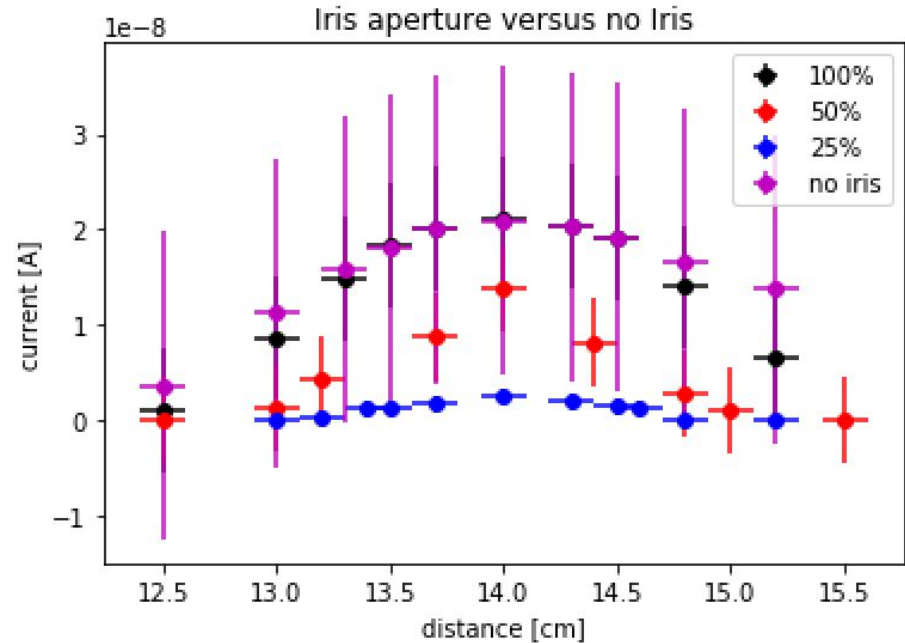
# Culminating lens

- Should've tested this first
- Culminating lens does increase transmission
- Centred at 14 cm high
- Slightly off centred; suspect small difference in height affect height of focussing
- Blue lines show effective length of diode



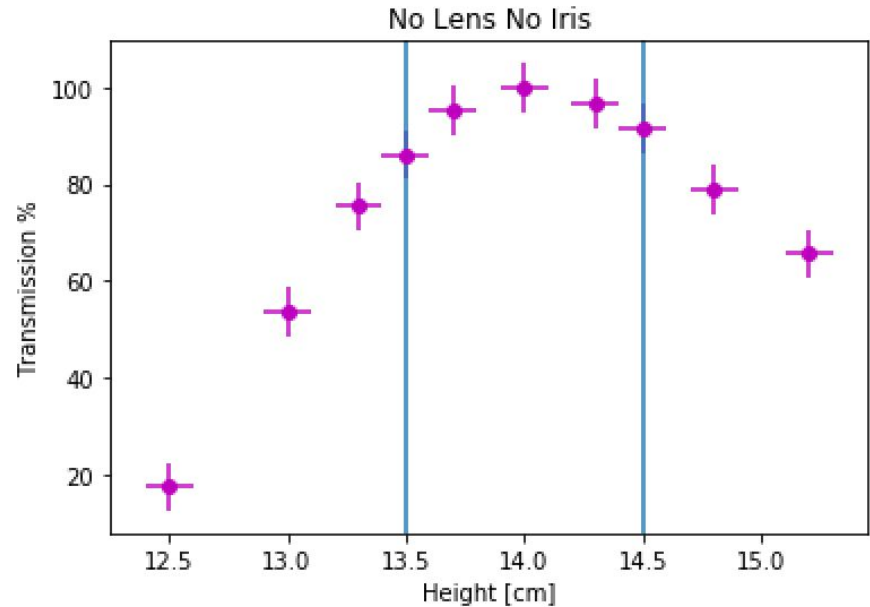
# Comparing iris and no iris effects

- Comparison of current with and without iris
- Having an iris does narrow the beam of light
- y errors are 1 standard deviation, x errors are 0.1 cm
- Having iris decreases the errors as well



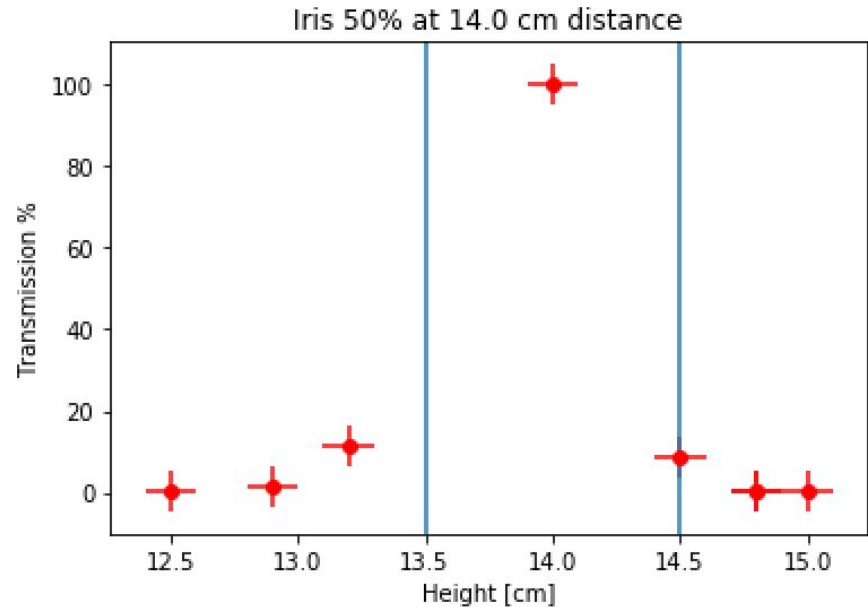
# Test of nothing in between

- Transmission at a height of 14 cm as the maximum
- Same blue lines denote length of diode



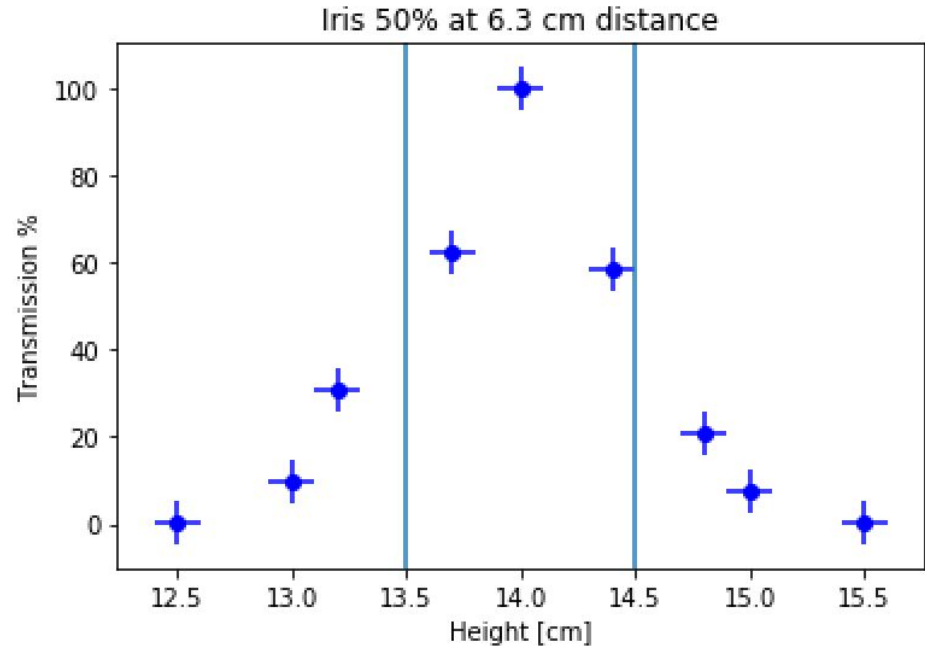
# Test run

- Iris ~50% open (estimate by trying to centre the “needle” in the middle)
- Iris placed as close as possible to diode (as a test run)
- Not ideal... so didn't test many points... should have had more points within the diode height range



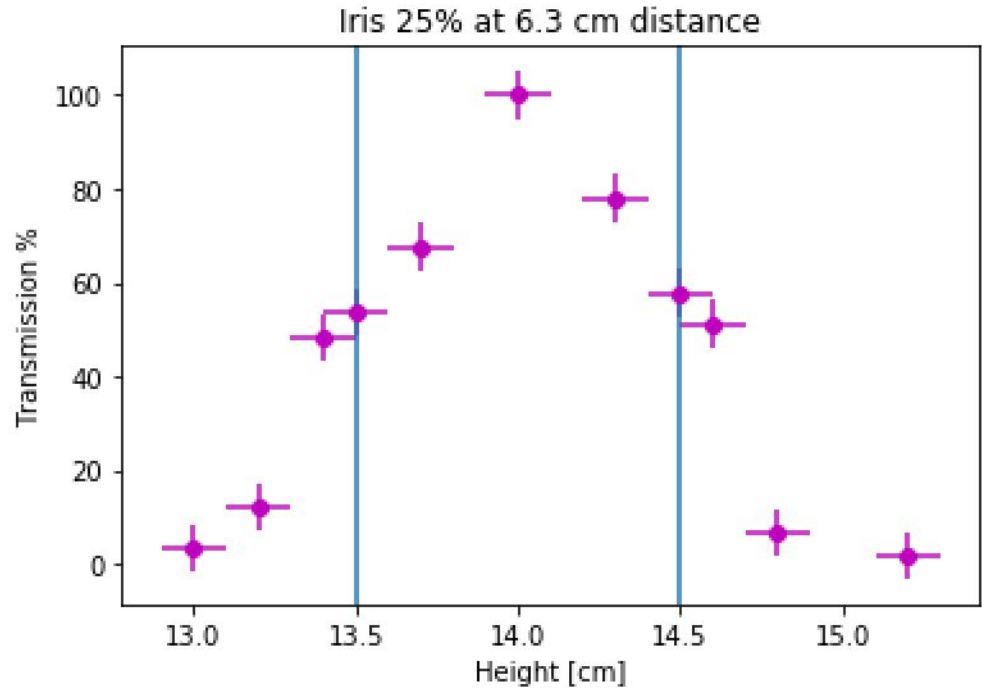
# Iris closed at farther distance

- Iris closed about 50% of the way
- Distance from monochromator to iris now 6.3 cm leaving a bigger gap between iris and detector
- More ideal since I need to put something in between



# Iris closed at farther distance

- Same as last slide but with 25% closure
- Have more points to test what happens near the length of diode



# Samples setup

- Machine a holder for the cuvettes... I have some in mind; something simple
- Basically with the gap in between I put the cuvettes in the middle
- Maybe test if having the sample closer or farther away from the diode affects?
- Still waiting for the syringes + syringe filter