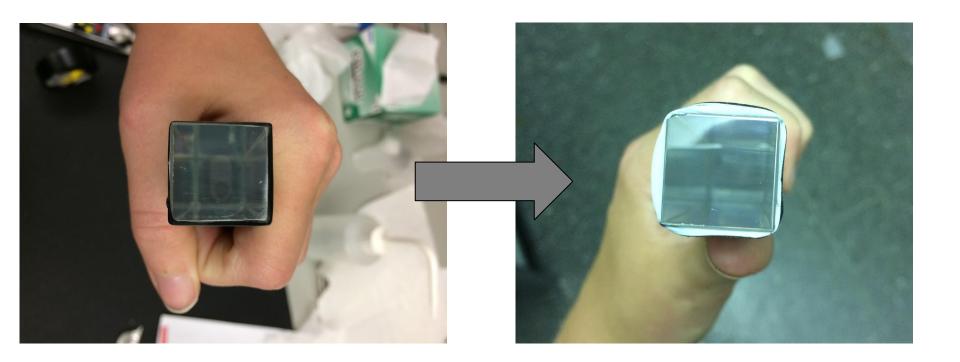
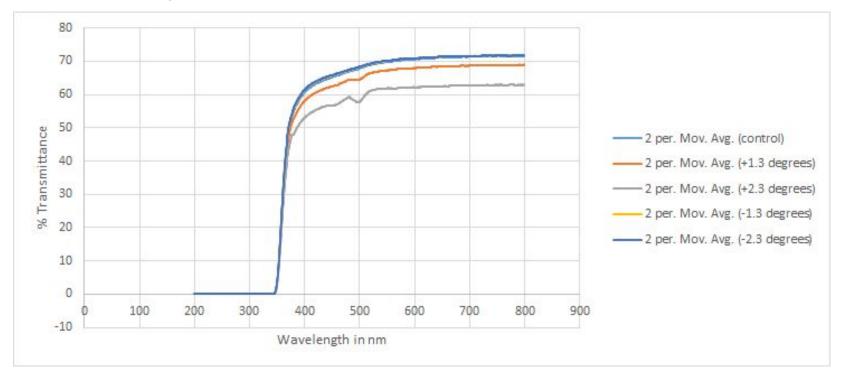
Week 2

Task 1: Re-examine J18 and J19

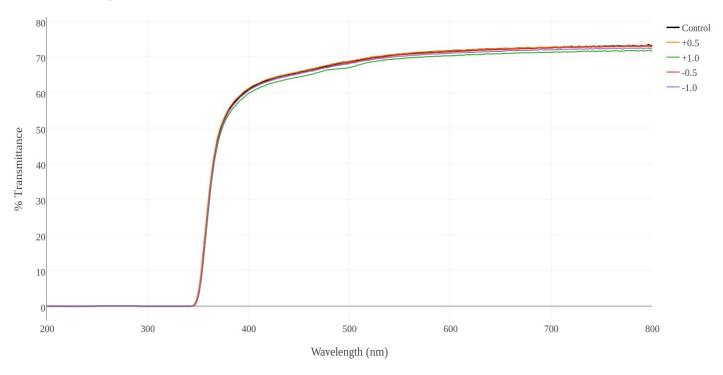
	Degree of Crystal Placement Off Center					
Crystal Number	0°	1.3°	2.3°	-1.3°	-2.3°	Error range
J16	65.968%	65.874%	64.811%	66.146%	66.262%	±0.71%
J18	63.209%	60.574%	55.329%	63.795%	63.903%	± 7.88%
J19	65.632%	65.180%	59.940%	64.347%	63.077%	±5.69%
J20	62.954%	62.848%	60.081%	61.290%	62.670%	±2.87
Avg Transmitt						
-ance	64.441%	63.619%	60.040%	63.895%	63.978%	



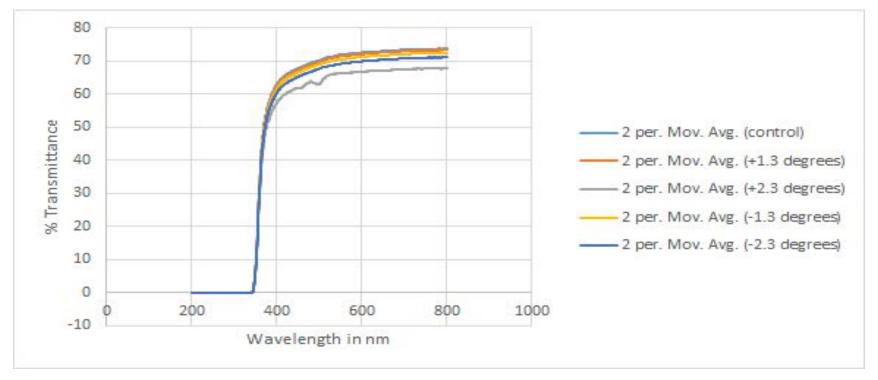
Before Tape Adjustment:



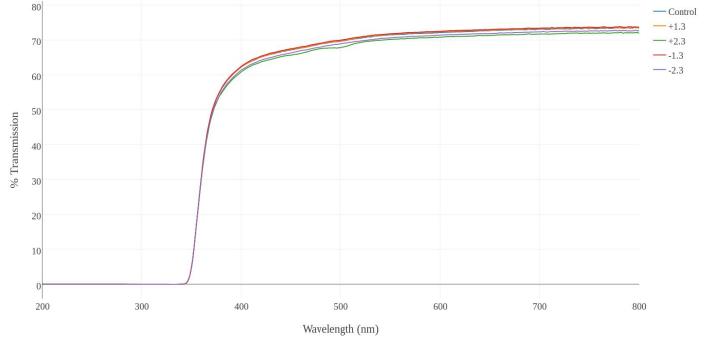
After Tape Adjustment:



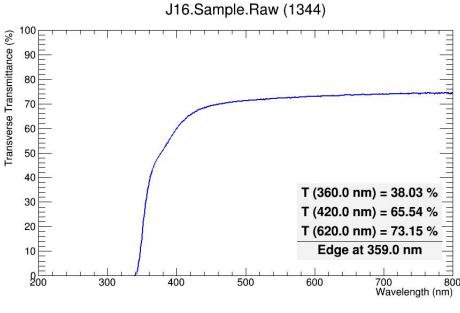
Before Tape Adjustment:

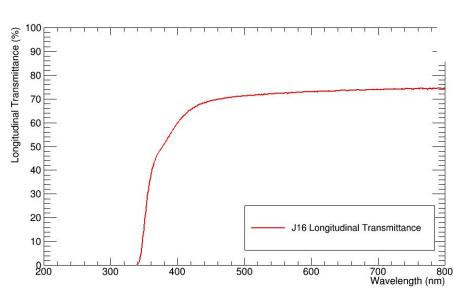


After Tape Adjustment:

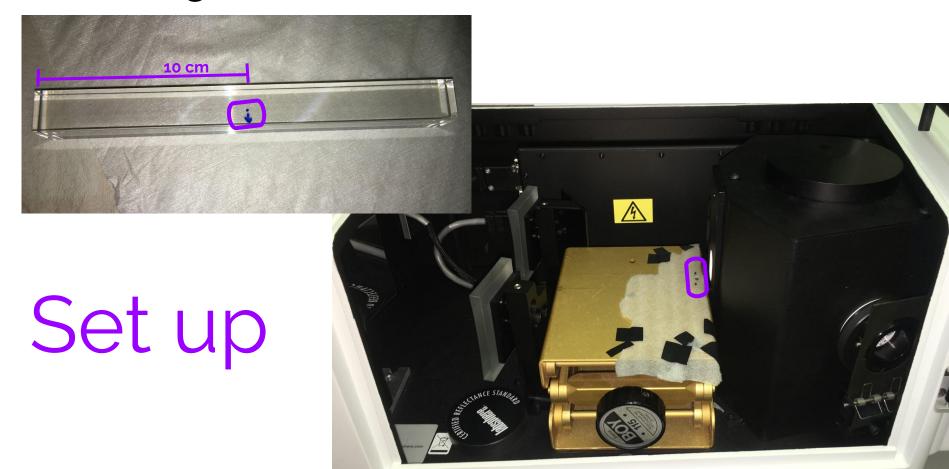


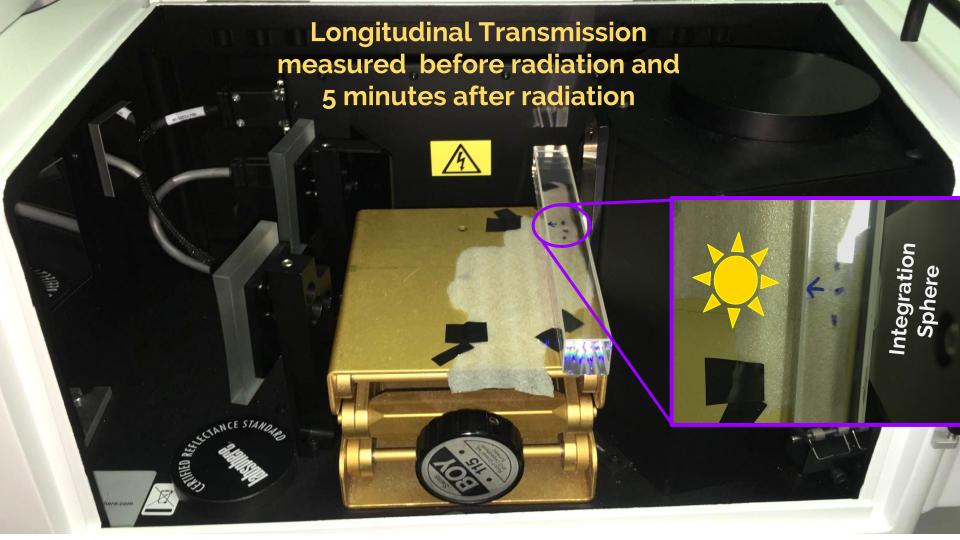
Task 2: Learn root



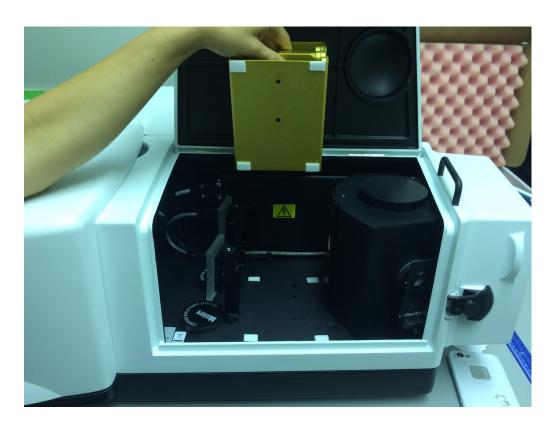


Task 3: Begin transverse measurements/irradiation





Recently Added: Velcro



Irradiation

- -J23: 70mins of irradiation (### crystal was 60mins)
- -Shelf 8 plus 11.45cm tall platform



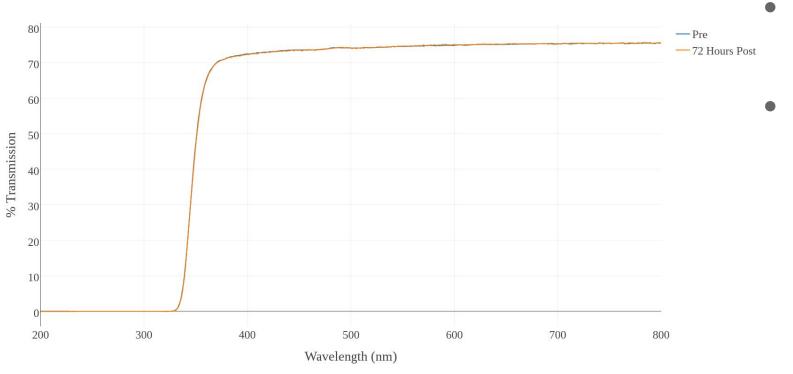
- -When removing the crystal after irradiation, had lights off in room and closed door
- -Wrapped the crystal in the dark, placed in its styrofoam container
- -Then was put inside a cardboard box lined with a black rubber cloth, covered, brought down to spectrometer room 5 minutes later where lights were off as well



J23 Before/Directly after Irradiation



"###" Crystal Recovery 72 Hours Post-Radiation

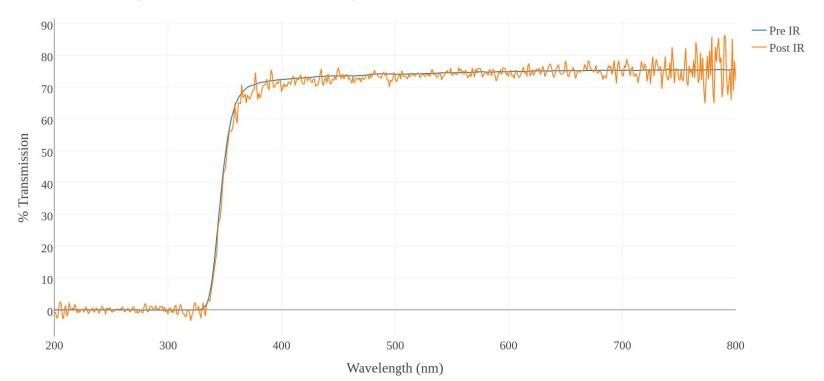


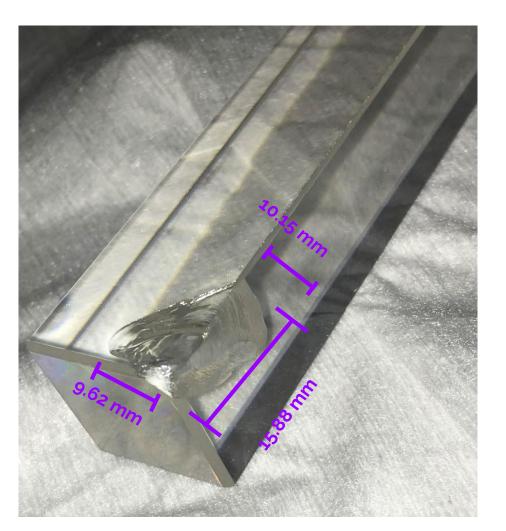
Transmission fully recovered

Stored (unwrapped) in office

Bloopers

- Spectrometer difficulties
- Solution= place fan next to Spectrometer

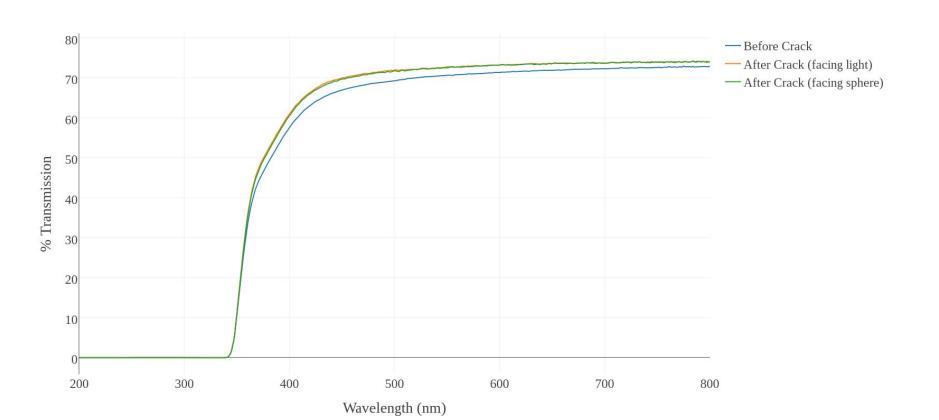




J21 Incident

Lid of spectrometer fell on crystal

J21 BC & AC Longitudinal Transmission



Potential Error with Integration Sphere

0.0008% Probability of light exiting hole



