11-06-25 Gesterday each ar is found a different Chi/Car, Chia/Chib and characyl concentration: Jamos Eva Koen Mads Ch1/Car 4.14 4.19 3.86 4.18 Chl of/Chlb 2.78 2.77 2.37 2.59 0.63 0.86 chi concentration 1.59 1.24 5 mg/mL ABSORPTION . Today we started with proporing our samples for an absorption we propored tubes with 3 ml B, ones a but (about hour a muliter) of our concentrated thyldresids we mused to the spectrometer in the dark room and installed an integration sphere. (for measuring the scattering as well) ive put our samples into the spectrometer and rethered graphs we unit analyse later today we sawed our samples for augrescence FLUORESCENCE · we determine awarescence at 79 kg (-196.15°C). The trapping to the RC will be less efficient at this temperature, so we will measure more fluore rense . To do this we retrieved acque nitrogen from the -1 (1000, we carried it up the stais braquise tarried it into the elevator is a safety hazard. · we set up the machine for law temperatures · we crose our sumples from the absorption in a thin alcuss expette (we put them carefully into the liquid nitrogen, otherwise the grass would bursts) then we query transported the pipette into the machine (into a vaccium tube filled with cirquid nitrogen) . We retrieved our groups and could directly see the phorescence Chebween 780 m and 750 mm) Data anoughs we will do this afternoon.

Data analysis owe began making & graphs of our our plant and 3 graphs of all of our plants. In this way we can interpreter our measurements. The graphs are normalized. Emission plant us absorption plant (ram temp) Absorption plant is absorption AT (model plant) Emission plant vs emission AT (room temp) + duccesence Emission plant us emission At (Low temp) + duccorence (4) Emssion plant combemp us low temp (6) Absorption au plants 3 6m ssion all plants (room temp) (B) Emission all plants (Low temp) The code in python is up to adea in Github. we aid to P. nison all the graphs today, so use consored them at home. 1.24 mg/ml, we need oig mg m= 0.5 = 0.4 ml 0.5 = 0.314 mL 1.53 M = 0.79 ml = 0.58 ml 0.5 086 " We put Here quantities into tiny lubes. P. get up and down to comix the thylowords. Adar 400 mag sa 1 Then See protocol · 250 m4 53 "Sucrose gradient" 52 to as me (can be a be muo) we propose conspect the day with puting the buses in the entrarentrituge at 4000 RPM (1205000 g) Car 174 at 400. Tomorrow at 10 30 well continue with the graphent. One was a but lan concentre area and might cart be discustle graphs omorrow morning.