MONDAY MAY 13th 2019

Intro to photutils (PHOTOMETRY)

- Make sure that you have it inside your machine
- How much energy the object released?
- Other question to consider:
    - What is the shape of my object
    - Other stuff that might contribute to the object(dust etc)
- Point Spread Function (SPF)
    - The response of your telescope to the object that you're observing
    - Why? We want to know which photons return to our original images
    - A system that has aberration that gives shapes
    - Focusing on optics and how they work
- Sky background
    - The sky is glowing
    - What causes it?
        - The ground, light reflected
        - Bright object nearby in the atmosphere.
        - Sometimes, the source that causes the background
        - Zodiacal light aka ZODDY --- dust
            - Will be there no matter what
        - Varies by airmass/

Wednesday, May 15th 2019

Workday

Friday, May 17th 2019

- PAPER DUE JUNE 7
    - Introduction, not bullet points
    - body :
        - Approach
            - Trying to answer a question or report of the discovery
            - Reporting guided by reproducibility
            - **Tie into a larger field of the context, where's the conversation and where can it take you.**
        - Framework
            - Paper sections
                - Intro
                - methods/data
                    - The bulk of the paper
                - results/discussion
                    - Take intellectual approach
                    - Make a plot and tackle it and guess what it means
                    - Engage with the intellectual result
                - conclusion/summary

    - Details
        - Show your data - plot, table,images, etc
            - Not all of them, like 50 of them but some of them
        - Be explicit on defining
            - Captions: to describe things
            - Not use a figure that you're not using/refer it in your paper
        - Include theories and equations that you're using
        - **REFERENCE, REFERENCE, REFERENCE**
            - Credit them
            - USE ADS
            - Or USE GOOGLE
            - Or WIKIPEDIA but refer to the reference
        - LABELS and UNITS!!! Make sure of **TYPO'S**
- 4 -5 paper finished
- WHEN IN DOUBT, **ASK!!!**