Proposal Outline: DUE March 25th by 5 PM

(email to astr578besla@gmail.com, LastName_Assignment6.pdf, Subject: Assignment6)

1) Revise Title

2) Revise abstract.

Adhere to word limit: The abstract must be written in standard ASCII and should be no longer than 20 lines of 85 characters of text. Use the HST/JWST Templates.

3) Provide an outline for your proposal (BULLETED POINTS that answer each of the below)

Section 1: Facts, Problem & Summary paragraph

a) What is the descriptive heading?
b) 1-2 fact-based paragraphs:
   i) State the fact leading each paragraph
   ii) Provide At least one reference per fact/paragraph.
   iii) What is the nuanced conclusion for each paragraph/fact?

c) Problem paragraph:
   iv) What is "the problem" statement?
   v) Why is it critical to answer now?

d) The last paragraph:
   vi) What is the proposal? (identify key component)
   vii) Why HST/JWST? Does this advance HST/JWST science goals? (Or goals of the observatory you chose)
      - Which **key science goals** of HST/JWST does your proposal connect to ?
      - JWST: https://webb.nasa.gov/content/science/index.html
      - HST: https://www.stsci.edu/hst/about/key-science-themes

Section 2: The Problem & Motivation/Narrative of the proposal

a) Identify a descriptive heading that states the problem
b) State why solving this problem advances the subfield.
c) Identify the "key component" missing to solve the problem.
d) List relevant references
e) Outline a figure to illustrate the problem (can be in words, a sketch)

Section 3: Describe the Target (setting the stage for generating the "Key Component")

a) What are you targeting ? (imaging/spectra/archival data of **what astronomical object**, or **what physical mechanism/ simulations/data set**)
b) State why the target critical to solving the "problem"?
c) State the suitability of target → Feasibility with "key component":
   For GO: Feasibility of HST/JWST observations (justify HST/JWST usage)
   For AR/Theory: Identify existing/future HST/JWST data sets (proposal #)
d) Outline a figure that explains the chosen target (e.g. illustrate the target and connection to "key component" and/or "problem"). (can be in word, a sketch)

Section 4: The Strategy: HST/JWST + Target Solves the Problem (Generate the "Key Component")

a)Explain the strategy to generate the key component:

For GO: describe the proposed observations *briefly/succinctly*

For AR/Theory: describe *briefly* the analysis method/proposed **usage** of simulations/codes and relation to existing/future HST/JWST data sets.

b) Explain the data products of the program (tangible outcomes).

c) Outline a diagram for your strategy (key component + target = solution) (can be in words, a sketch)

Section 5: Importance & Broader Implications

a) What are the big picture implications of the proposed products of your study to your **subfield** and why do they matter? (How will your study advance the subfield?)

b) How does this study increase the **legacy value** of the observatory?

- What **other subfields** are advanced by these observations (GO) or data analysis/code/simulations (AR) ?
- Do the data products serve the community at large?