

## Physics 595 – Spring 2024

### **Assignment #5: Write the Methods and Results Sections for Your Research Paper**

This assignment consists of 2 parts. (1) First, provide detailed (level-2 or level-3) sentence outlines that detail the plan for logically organizing both the methods and results sections of your research project. Please provide as much detail as possible in your outline. (2) Second, following the organizational structure of your sentence outlines, write methods and results sections for your selected research topic. These sections should be written at a level suitable for a scientifically literate but non-expert audience and should include all the elements expected in the methods and results sections of a scientific paper. The methods section should include a description of the specific techniques used in your research topic and a description of the general procedures used in obtaining and analyzing the results. The results section should include a summary of results obtained; a description of procedures used to produce, analyze or process results; a discussion your interpretations of the results; and a discussion of how the results compare with relevant theories and/or existing data. These sections should also include appropriate references and use a consistent referencing style. Finally, you must include at least two relevant figures and appropriate figure captions. This assignment is worth 150 points, divided as follows: methods section (40 points), results section (40 points), two figures (25 points each), and references (20 points).

The first draft of this assignment will be due on **Friday, March 29.**

The final version of this assignment will be due on **Friday, April 26.**