

Class Paper (students enrolled in PTYS 503 only) due date t.b.d.

For students enrolled in the graduate-credit section of this class (503), you are required to research a topic related to the material discussed in class and write a paper about it. Pick a topic that interests you the most. You will probably need to do some research of library books, the regular scientific literature, and the internet in order to get a broad picture of the physics of any particular topic.

Your paper must be at least 2000 words (there is no specific maximum). You must add a list of references to printed material and to web sites visited at the end of your paper (this is NOT included in the 2000-word minimum limit). *You will benefit if your research includes references to a wide variety of sources and not just web sites!* Your paper should be well organized, thoughtful, grammatical, and with correct spelling. You must be as quantitative as possible. Describe the physics in as much detail as you can, as if you were explaining it to me. You will be graded on the basis of the clarity of your language, your understanding of the physics, your arguments, and the originality of your presentation. It should also be grammatically correct and have correct spelling. You may include figures, tables, pictures, or other forms of illustration. You can put them into the text, or you can also put them at the back of the paper. Remember to include captions if appropriate.

Material which you present as your own work *must indeed be your own work*. It is not permissible, for example, to copy material from the web or from any other source and present it as your own work. If you are uncertain about what constitutes [plagiarism](#), please feel free to discuss it with me. The University of Arizona has very specific rules about this matter (see the "[Code of Academic Integrity](#)").

Due date: Tuesday, April 30.