

## Some ways to find topics for your PHYS511 paper:

1. Look at some papers referenced in one of the Assigned Readings; or check out the articles in Other Interesting Papers. Use the preprint server <http://arxiv.org> to search for other articles by one of the authors of an assigned paper that you found especially interesting
2. Search the American Physical Society Online Archive <http://prola.aps.org/> for other articles by one of the authors of a class reading you found especially interesting
3. Look up some of the references in one of the books I put on the Reserve Shelf of the Physics/Astronomy Library (books 2-5 listed in the PHYS511 tentative schedule may be particularly useful)
4. GOOGLE a great resource, but remember I'm looking for your contribution, not a download!

## Some things I will be looking for in your paper:

1. A topic, relevant to this course, that stimulated your interest and thinking.
2. Some real contact with experiment
3. Your own physical reasoning in your own words—pasting together downloads will get you a zero.
4. Adequate references to source material.
5. 4-8 pages of single spaced text (not counting illustrations). LaTeX is the preferred format but Word or something similar is fine.
6. You should imagine that the audience for your paper is someone who has taken this class. Give a clear exposition of your subject, no “snow jobs” please.
7. If you are discussing a particular article please attach a copy of it to your paper.

**You must register your topic with me by Thursday May 20, and your paper is due Thursday June 10.**

*I am happy to discuss your ideas for the paper as well as possible outlines. I will try to be sure that each student's paper deals with a different topic or different aspect of a topic. First come, first served. **Do not wait until the last minute to get started on this!***