

Assignment #3 - Skeleton Draft

Due at 12:30 pm Tuesday July 17, 2007

You will be using LaTex to prepare your final report. In preparation, I would like you to install LaTeX on your computer and prepare a “skeleton” draft of your final report. This should include the following, as a LaTeX-generated pdf file:

- Block in all the sections, including title, abstract, introduction, etc. (In LaTeX, put in section commands for each section. Write one sentence for each section. In the theory section, put in one display equation. In the reference section, put in one reference (e.g., to the Am. J. Phys. article that the lab is based on)).
- Include at least one figure in the text. Give each figure a caption. You should put fit parameters in the caption (remember to round to relevant significant figures). You can refer to the equations you plan to have in the text for the fit. For example, “The blue line shows fit to Eq. (aa), with parameters $A = xxx \pm yyy, B = .$ ” Note that LaTeX will do the equation numbers for you automatically, with the reference.
- One of your figures should be a sketch of the apparatus. Make a preliminary sketch for this draft. Do this in your favourite drawing program. Power Point is one possibility. Paint (on a PC) or Intaglio (on a Mac) are other possibilities. Adobe Illustrator is a much more powerful (and expensive) alternative, if you are ambitious and like this kind of thing. There is an open-source equivalent to Illustrator called Inkscape (www.inkscape.org) that you might want to check out.
- Include one table of fit parameters. In the real draft, the table should summarize the most important parameters. The complete parameters to each fit, along with the χ^2 statistic and the number of degrees of freedom can be put in the caption.

Links to installation instructions and general help can be found on the course webpage. There is also a formal report template that you can use to prepare your skeleton draft.