

# A575 HW #6

**Handed out: February 25, 2009**

**Due (at the beginning of class): March 11, 2009**

1. [50 pts] For this assignment, you will write an observing proposal to use the WIYN 3.5 or WIYN 0.9m telescope to address any of the science issues discussed in class to date which focus on galaxies as individuals (i.e., their ISM, Star Formation Activity, Stellar Populations, Structure, and/or Kinematics).

You will use the standard NOAO observing forms, examples of which have been handed out in class. These forms are designed using LaTeX, a computer typesetting program. A beginner's guide to LaTeX can be found at

<http://www.maths.tcd.ie/~dwilkins/LaTeXPrimer/>

The template and .sty file are located on the gamma machines in

`/home/vanzee/A575/wiyn_prop.tex` and `nprop29.sty`. You should copy these files to your working directory.

Descriptions of WIYN's instrument suite are available on the WIYN web pages:

<http://www.noao.edu/wiyn>.

Briefly, the WIYN 3.5m is currently equipped with three optical imaging cameras: MiniMo, WTTM and OPTIC, and several fiber bundles for fiber-fed spectroscopy: HYDRA and SparsePak, and an IR imaging camera: WHIRC. The WIYN 0.9m is used exclusively for imaging. There are two imaging cameras available for the 0.9m: S2KB and MOSAIC.

Your proposal should include an abstract, scientific justification (limited to 1 page!), experimental design, and technical justification. Be sure to cite appropriate references.

For the purposes of this assignment, you may propose for either the fall or spring semester, or for both (i.e., you should determine when your targets can be observed). Also recall that WIYN is located at 32° N latitude.