

AY230 Syllabus 2008

- Philosophy :: Cover the basics in enough depth to enable activity in current research. The application of the material leans toward observations, but the material itself is nuts and bolts theory.
- Topics
 1. Structure of HII regions
 2. Physical diagnostics via emission lines
 3. HI (21cm)
 4. HI (Ly α)
 5. Dust
 6. 2-phase ISM/2-phase ISM
 7. Molecules
 8. CIE
 9. Shocks?
- Lectures
 - ◇ Regularly TTh 2-3:45pm in ISB 356
 - ◇ My travel schedule will dictate cancellations + ‘make-up’ dates
 - ◇ See Google calendar for dates (search on AY230 Santa Cruz 2008)
- Assignments
 - ◇ Homeworks
 - ▲ Mixture of theoretical ‘calculations’ and observationally oriented problems
 - ▲ Assigned roughly once per week
 - ▲ Due 2 weeks after announcement
 - ◇ Research papers discussions
 - ▲ ~ 4 assigned per week
 - ▲ Two persons chosen to lead discussion for ~ 30min in class
 - ◇ Research project
 - ▲ Topic of your choice, restricted to a topic directly related to the course
 - ▲ ~ 5 page assignment
 - ▲ 30min oral presentation
 - ▲ Due during final’s week