

Term Paper: List of topics

Students are to pick a topic from the list below, and write a 12-15 page term paper on the topic. Using textbooks, the world-wide web and research papers, the students will study the astrophysical topic in detail. An important requirement is that the discussion links the discussion to material covered in class. A useful source for astrophysical research papers is NASA's ADS service:

http://adsabs.harvard.edu/default_service.html

- * **Accretion disks**
- * **Turbulent Molecular Clouds and Star Formation**
- * **The Intra-Cluster Medium**
- * **Disk Instability and its Manifestations**
- * **Blast Waves and Supernova Feedback**
- * **Mixing Length Theory of Convection**
- * **Dynamical Models of Galaxies: from Jeans to Schwarzschild**
- * **Cold Mode vs. Hot Mode accretion**
- * **Planet Atmospheres**
- * **Proto-Planetary Disks**
- * **Reionization of the Universe**
- * **The Cosmic Microwave Background**
- * **The Sunyaev-Zeldovich effect**
- * **Ram-Pressure Stripping of Satellite Galaxies**
- * **Your suggestion here...[consult with Professor]**