

Final “homework” (worth 10% of total class grade) is an in-class presentation of a topic of your choosing. Talk should be no more than 12 minutes long with 3 minutes for questions. You can talk about any topic related to Galactic and extragalactic astronomy. Talks will be given on **Dec 2 (3 talks), Dec 4 (3 talks), Dec 7 (3 talks) and Dec 9 (1 talk)**. Some possible topics:

Merging Galaxies – Observational or Models

Galaxy Formation scenarios

Galaxy Cluster or Group formation

Dark Matter Halos – simulations, formation, model potential-density pairs

Elliptical Galaxies

- Fundamental Plane – new results, extension to low mass Es
- Cooling Flows

Spiral Galaxies

- disk formation
- Milky Way thick disk

Morphological Classification

Density – Morphology Relation

Metallicity enrichment in Galaxies

Active Galaxies

- relation to star formation
- AGN feedback

Intermediate Mass Black Holes

Titles/Topics need to be decided by **Nov 18th**. Please come to class that day prepared to give me your topic choice. Numbers will be drawn to determine talking order.