

ASTR 610: Term Paper

Due date: Tuesday November 28, 2018 in class

- *Pick one of the topics in the list below, or define your own.*
 - *Inform me of your choice: Only one student per topic, first come first serve basis!*
 - *Search literature for relevant papers. You can use MBW and/or ADS as starting points.*
 - *Pick 2-4 papers that will form the basis of your term paper.*
 - *A selection of observational papers only is NOT allowed.*
 - *As a rule of thumb, pick papers with 10+ citations per year since publication.*
 - *Read papers and work through them.*
 - *Write a term paper (6-12 pages) summarizing your findings and analysis.*
 - *Prepare a 15-20 minute presentation summarizing your Term Paper.*
 - *Present presentation in class, and lead a discussion on your topic among the students.*
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List of Potential Topics

- * Observational Constraints on the Shapes of Dark Matter Haloes
- * Evolution of the Size-Mass Relation of Disk Galaxies
- * Origin of the Mass-Metallicity Relation of Galaxies
- * The nature of Damped Lyman Alpha systems
- * Origin of the Cosmic Star Formation History
- * The Impact of AGN Feedback on Galaxy Formation
- * Constraining Dark Energy with Baryon Acoustic Oscillations
- * Warm Dark Matter
- * Self-Interacting Dark Matter
- * Fuzzy Dark Matter
- * The Cusp-Core controversy
- * The Impact of Reionization of Galaxy Formation
- * Dark Matter Annihilation
- * Origin of the Morphology-Density Relation
- * The Missing Baryon Problem
- * Supernova Feedback in Numerical Simulations
- * Supernova Feedback in Semi-Analytical Models
- * Semi-Analytical Modeling of the Extra-Galaxy Background
- * The Angular Momentum Distribution of Gas in Dark Matter Haloes
- * Secular Evolution in Disk Galaxies
- * What can Globular Clusters teach us about Galaxy Formation?
- * Quenching of Satellite Galaxies
- * The nuclei of elliptical galaxies