

Astronomy 596/496 APA

Lecture 8

Oct. 22, 2015

Today's Agenda

- ★ Colloquium Recap
- ★ Literature Review and Searches
- ★ Colloquium Preview

Next Week: All-Department workshop on fostering a climate of respect

No homework was due today. Hope that's okay.

↳ There *really* will be some for next week.

this past Tuesday: Greg Laughlin

- [*The Galactic Planetary Census*](#)

Q: What was the talk about?

Q: Key/memorable results?

Q: What did you like about the presentation?

Q: Lingerin questions?

Q: Other comments?

Navigating the Astrophysical Liter

Keeping up with the Joneses: Literature Reviews and Searches

Q: what are reasons you need to consult the literature?

Q: why should you do this at the beginning of a project? middle? end?

Q: how do you know that you've found all relevant papers?

Q: how do you know there aren't new papers since the last time you checked?

Q: why do we care about citations?

Q: how do you do this? where do you go?

Keeping up with the Joneses: Literature Reviews and Searches

- powerful search engines exist, linked on today's page
- Astrophysics Data Service (ADS): probably most important
- INSPIRE: particle physics oriented
- arXiv: *Q: how is this different? how should you use it*

Q: how would you find the latest review article on dark energy?

Q: how would you find the most famous article on dark energy?

Q: how would you find the most recent article on dark energy?

Q: how can you tell whether somebody has already written a paper on your new idea?

Q: what is an h index? what does it tell? upper limits? how could it be useful? misleading?

Colloquium Preview

Next week, Oct. 27: **Hsiao-Wen Chen**, U. Chicago
“*Chemical Enrichment in Galactic Halos*”

Q: What’s a baryon? What is the main form of cosmic baryons today?

Q: What does “chemical enrichment” mean in this context?

Q: How do we know about the composition of extrasolar baryons? extragalactic baryons? circum- and inter-galactic baryons?

~ Q: Who cares? What does this tell us?