

Astronomy 596/496 APA
Lecture 5
Oct. 1, 2015

Today's Agenda

- ★ Guest Lecture & Colloquium Recap
- ★ Scientific Presentations
- ★ Colloquium Preview

this past Tuesday: Laura Lopez

“Dissecting the Remnants of Nearby Supernovae”

Q: What was the talk about?

Q: Key/memorable results?

Q: What did you like about the presentation?

Q: Lingering questions?

Q: Other comments?

Scientific Presentations

Scientific Presentations

Q: why are talks important? how important are they?

Q: What are your goals when giving a talk?

Q: How do you know if you have succeeded?

Q: What are different types of scientific talks?

Q: how are they similar? different?

Q: What are ingredients of a good talk? pitfalls?

Tips for Talks

Gammie's Law: have something to say!

Know your audience! Think from their perspective!

- respect your audience
- keep to time
- practice, practice, practice, preferably in front of a human
- order of magnitude calculations!

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Note: Not everyone agrees on what makes a good talk!

Q: What makes a good slide? a bad slide?

Q: What makes a good plot? a bad plot?

Q: What is a good number of equations?

Slides, Plots, Equations

- Everyone should understand every mark on your slides
- less is more!
info emitted is irrelevant
info absorbed is what counts
- equations: use depends on context
clarity vs precision
can simply, say things like “+ loss terms”

Become a Student and Practitioner of Talks

- think about the talks you hear
- bonus Jedi exercise: during bad talk, think of how to make it a good talk

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- take every opportunity to give talks
 - get feedback on your talks

Colloquium Preview

Next week, Oct. 6

- Adam Leroy, Ohio State
- “Star Formation-Driven Molecular Superwinds as Understood From the Two Nearest Starburst Galaxies (and a Small Survey)”

Q: what is a galaxy? what types (morphologies) are observed?

Q: what is a starburst galaxy? how do we measure star formation?

Q: what is a galactic wind? what is needed to drive a galactic wind?

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Q: why are molecular winds special and interesting?