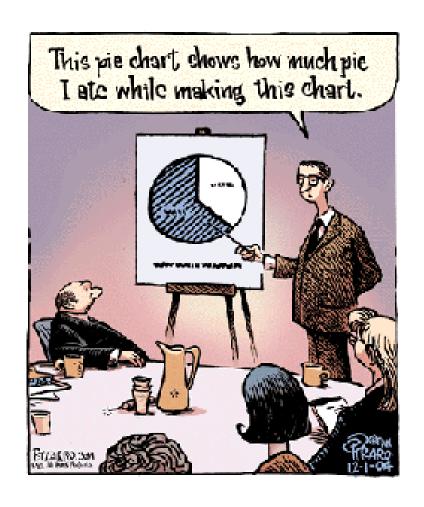
Organizing a ~30-minute prelim/final talk



The Oral Presentation for the Prelim or Thesis



JORGE CHAM @ 2006

www.phdcomics.com

How Do You Start Drafting Your Presentation?

First, draft an outline for your presentation!!

Example organization of ~30-minute prelim talk

Background and Introduction (7–9 minutes)

- \Rightarrow 5–6 slides
- ~1 Title slide Your name, advisor's name, research title
- ~1 Outline slide Organization of talk
- ~1 Overview slide Why is this research important?
- ~2-3 Background slides Provides essential background for non-experts

Methods and Preliminary Results (7–9 minutes)

- \Rightarrow 5–6 slides
- ~2-3 Methods slides Theoretical/experimental methods used
- ~0-3 Preliminary results slides Proof-of-principle results

Example organization of ~30-minute prelim talk

Proposed Research (10–12 minutes)

 \Rightarrow 5–6 slides

~1-2 slides per proposed project

Summary and Acknowledgments (1-2 minutes)

⇒ 2 slides

- 1 Summary slide Review the main points
- 1 Acknowledgment slide Acknowledge collaborators, funding agencies, helpful colleagues/staff, etc.

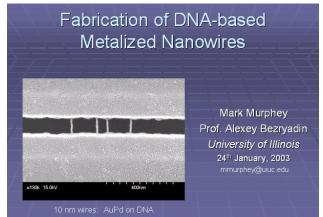
Questions

⇒ 3–N back-up slides – Anticipate questions that might arise

The title slide and outline prepares the audience to listen and shows organization of talk

Title slide

Your name and affiliation Your advisor Venue and date Attention-getting graphic



Outline or overview of presentation

Prepares the audience to listen
Provides a logical structure for your talk
Provides motivation and context
Summarizes key points (limit to two or
three for a ~30-minute talk)



The "body" of your presentation is the intellectual content of your talk

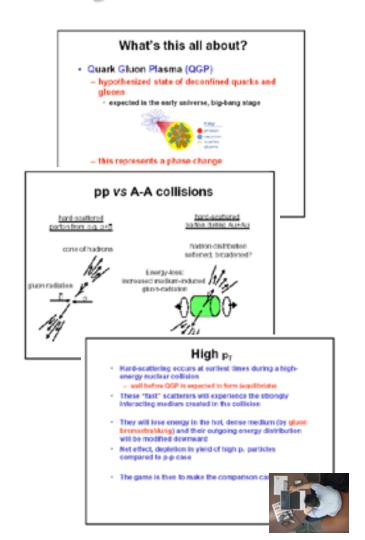
Problem statement, motivation

Previous work, essential background info

Methods

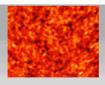
Results and Discussion

Proposed work (prelim)



Provide a "summary" slide

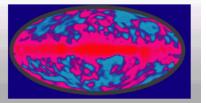
Recap key preliminary results Reiterate proposed projects



Summary

- Non-Gaussianity in the CMB tells about creation of the initial density perturbations in the universe.
- The probability distribution of the nonlinear parameter in our model gives drastically improved constraints on non-Gaussianity.

Next: generalize our method to smaller scale fluctuations and apply to COBE and MAP data



Contact: Michael Schneider mdschnei@uiuc.edu

This slide will probably stay on the screen during the question period and will thus get the longest audience exposure—make it count!

Tips for preparing your talk

- Adjust the presentation to your audience! Your committee are not all experts...make sure you have sufficient background to orient all members
- You don't have to tell the committee everything about your research: Identify the 2-3 main points you can reasonably convey in a 30-minute talk
- Create an outline of your talk, i.e., have a logical organization: You can use the same outline as used for your prelim paper



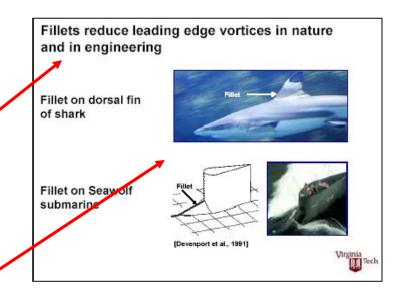
Tips for preparing your talk (cont.)

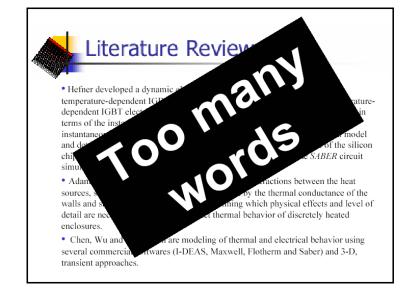
Have only 1 idea per slide

Use the header to state the main idea of the slide, and use the body of the slide to support that idea

Use well-labeled graphs and figures to illustrate your key points...this makes the slide more real and interesting to the audience

Avoid too much text....





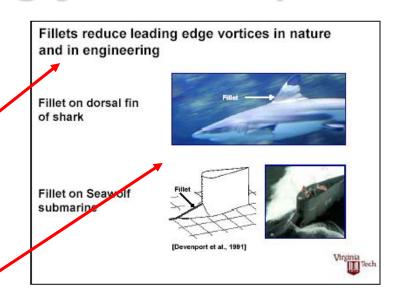
Tips for preparing your talk (cont.)

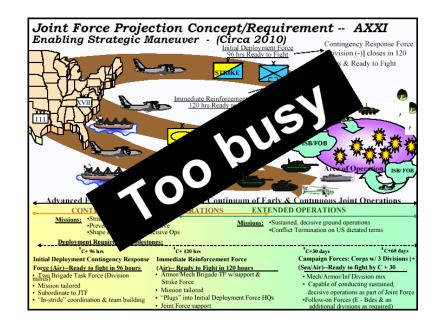
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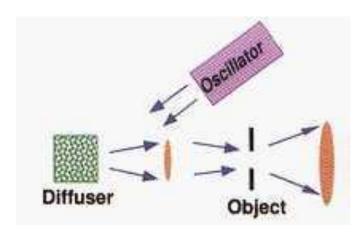
....or too many distracting images



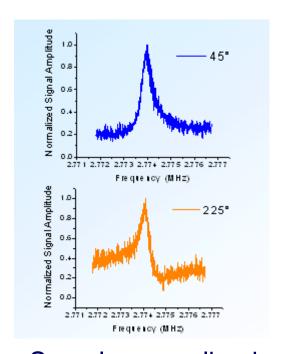


Label all elements in a figure

- Point out important features
- Label both axes of graphs and show units
- Provide a brief caption
- Give credit to source



The Nike laser system uses discharge preamplifiers. (Courtesy US Navy)

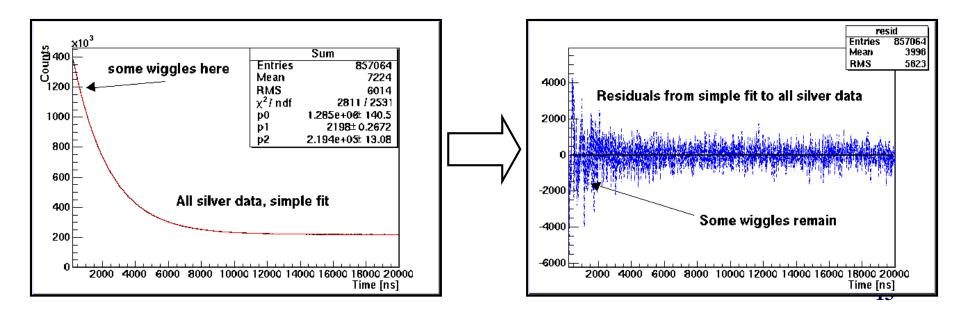


Sample normalized signals from the two-beam optical drive. (Courtesy C. Michael)



Presenting data is your most important and challenging task

- Avoid copying a graph from a formal article they have a different style, e.g., labels are too small
- Use color and make lines thick, labels legible
- Label axes and annotate important points with arrows and add words
- Use tables sparingly if used highlight important parts



Use equations sparingly

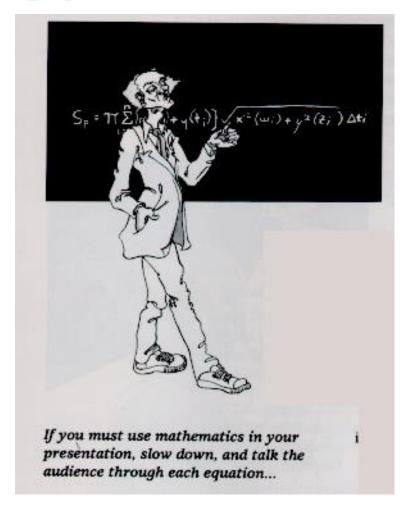
Use equations only when necessary

If you use equations Slow down

Talk through step by step

Explain relevance

Combine with a picture that illustrates the physical principle involved



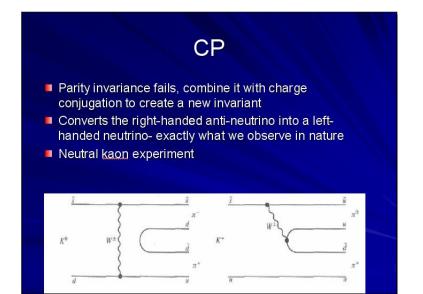


Remember, your goal is to convey your ideas, so avoid distracting text and effects!

Don't overuse PowerPoint animations and sounds!

Make sure there is good contrast between text and background

Use simple (or no) backgrounds on slides





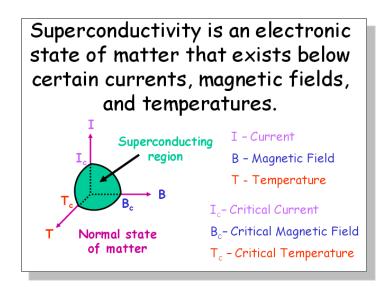
Use "normal" colors

DON'T use red/green or red/blue as contrasting colors

Make sure colors looks the way you expect using an LCD projector!

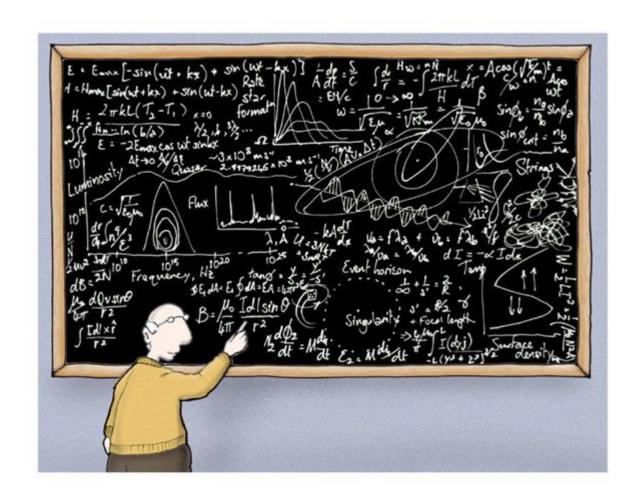
Avoid neon colors and pastels

Don't use many random colors; people expect color to *mean* something





Tips for presenting you prelim/final talk





Astrophysics made simple

Pointers for giving the best possible talk:

Maintain eye contact with audience

Don't stare at screen or monitor

Do not read your talk!

Avoid nervous mannerisms

Pacing, bobbing, waving arms, jingling coins

Use laser pointer or stick directed at screen

Don't point directly at overhead on projector Don't block the screen

Train yourself to speak slowly and distinctly—practice!

Avoid "fillers": "uh", "like", "um", "okay"

Be enthusiastic!

If you don't act excited by your results, don't expect the audience to be!



Pointers for giving the best possible talk:

Don't show any material on slides (e.g., figures, equations, text, etc.) you can't explain!! This will invite questions you don't want!!

Rehearse how you'll end your talk

Don't end with "Well, I guess that's it..."

Don't just stop and let the committee guess that you're done

Thank the audience!



The best way to prepare for a talk is to Know Your Material

Practice, practice, practice

Focus on communicating, not performing

Humor is good, but don't overdo it

Keep explanations simple

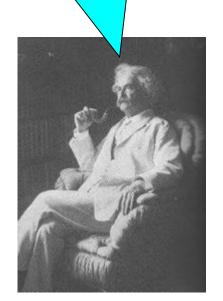
Prepare key phrases and words

It's okay to write out material first
Write the key point to make for each slide
If the slide doesn't have a point, eliminate it!!!

Stay on track

Small (planned) digressions fine if motivated, but get back on track (shows you are paying attention to audience)

It takes three weeks to prepare a good ad-lib speech





Check everything just before your talk

Check the projector

Make sure you know how to turn it on See that it is plugged in Check which way to position your slides Adjust the focus

Check microphones, pointer, other tools

Arrange your slides, notes, and other materials

Be able to reach everything without moving Be able to go through your slides without fumbling

Have a "clock" handy to check the time

