

Template for a Journal Club Presentation

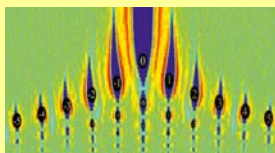


Celia M. Elliott
Department of Physics
University of Illinois

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Start with a “title” slide

“The Title of the Paper You’re Presenting”
Complete Bibliographic Citation



Presented by <Names of Team Members>
Department of Physics • University of Illinois at Urbana-Champaign
PHYS 499, April 11, 2014

The title slide cues the audience “Get ready to listen”

Answer the following questions:

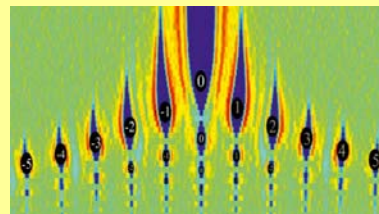
- What is new about the paper? (Introduction)
- Where does it fit in the context of prior work? (Background)
- What methods were used? (Methods)
- What were the primary results? (Results)
- What do the authors think these results *mean*? (Conclusions)
- What is your assessment of the paper? (Critique)

Use this paradigm to organize your presentation

What about an “outline” slide?

Outline

- Background and Introduction
- Methods
- Results
- Conclusions
- Critique
- Questions



SciTechDaily.com

I think the use of “outline” slides is vastly overrated—
little meaningful content, eminently forgettable

If you feel compelled to provide an outline, make it meaningful

Today we'll discuss

- Majorana fermions, theory
- InSb nanowires used as “colliders”
- Zero-energy peaks observed; electrons scattering off MFs
- Could be used for solid-state qubits
- Critique
- Questions

Consider an “outline” graphic at the bottom of each slide to orient listeners

Motivating statement, written as a sentence and left justified

<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • MF Observed • Applications • Critique • Q & A

Place a running outline at the margins of the slide
(bottom or left margin)

Consider an “outline” graphic at the bottom of each slide to orient listeners

Motivating statement, written as a sentence and left justified

<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • MF Observed • Applications • Critique • Q & A

Be creative but not distracting

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Motivating statement, written as a sentence and left justified

<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • MF Observed • Applications • Critique • Q & A

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<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • **MF Observed** • Applications • Critique • Q & A

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<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • MF Observed • **Applications** • Critique • Q & A

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<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • MF Observed • Applications • Critique • Q & A

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<SLIDE STUFF>

Theory • InSb Nanowires • 0-energy Peaks • MF Observed • Applications • Critique • Q & A

Allow at least 2 min per slide

Do the math:

20 min total – 5 min for Q&A = 15 min for “talk”

$$\frac{15 \text{ min talk}}{2 \text{ min/slide}} = 8 \text{ slides max}$$

8 slides – title slide – summary slide = **6 slides**

How do you divide up your 6 slides?

Problem/motivation

Background—what audience needs to know; what is new (prior work)

Methods

Results

Conclusions

Your critique of the paper

The last slide should be a summary that recaps the main points

**First observation of Majorana fermions in
semiconductor nanowires
Predicted in 1930s, never before observed
Used InSb nanowires as “nano-colliders”;
zero-energy peaks observed
Generated quasiparticles of electrons, possible
qubits for topological quantum computers
Didn't actually “observe” Majorana fermions;
inferred them from electron scattering**