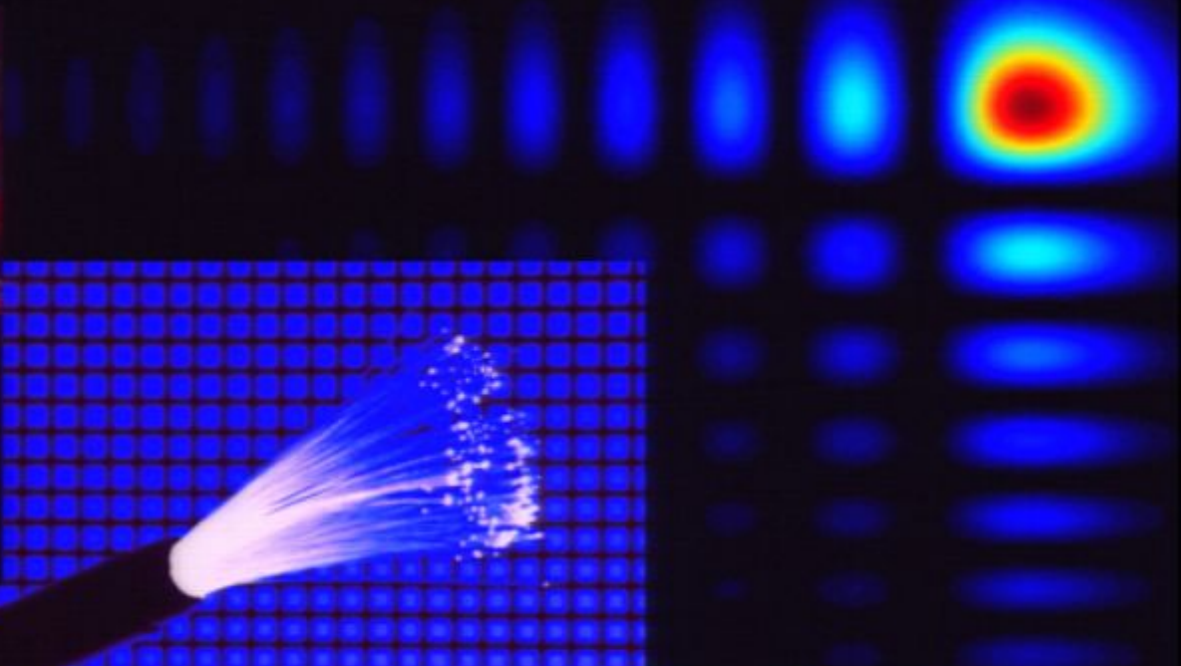
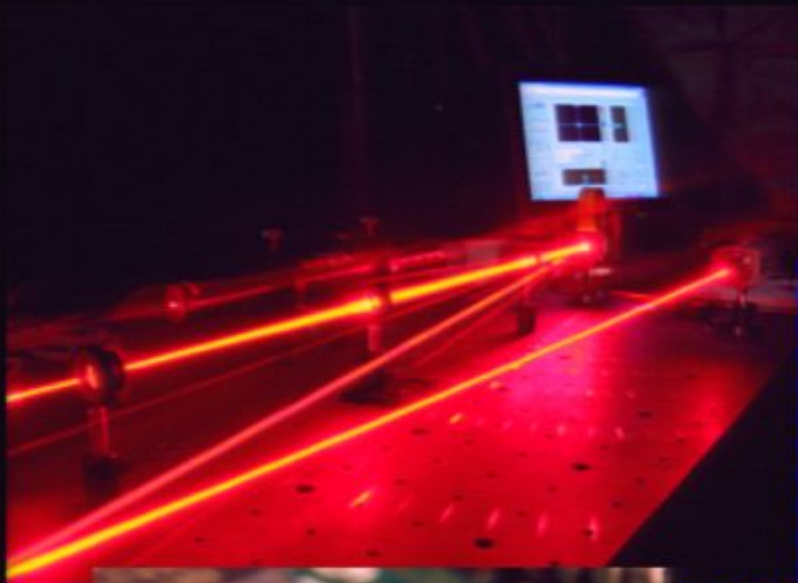


Title: Everyday Einstein: The GPS and Relativity

Date: Oct 22, 2010 09:00 AM

URL: <http://pirsa.org/10100109>

Abstract:





***“... what may be the most
ambitious intellectual experiment
on Earth”***

New Scientist

Summer Programs

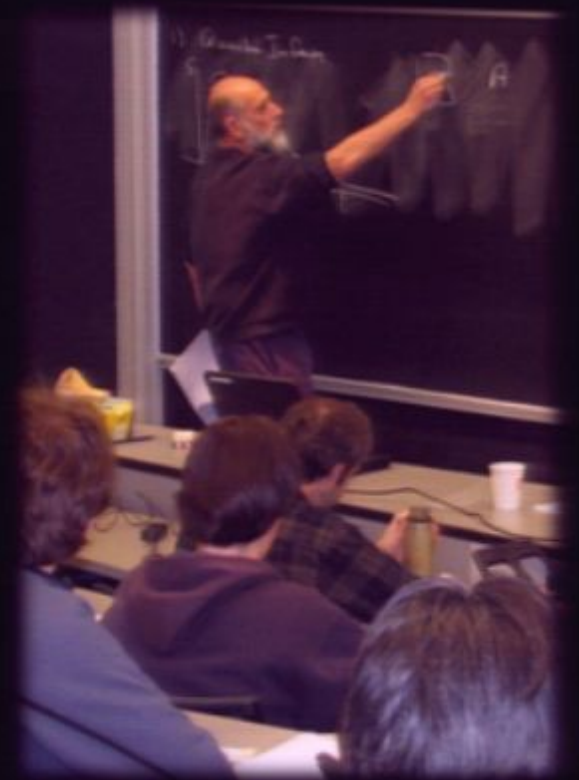
Inspiring teachers

Einstein Plus

One week modern physics camp
for top teachers.

Includes lectures by PI
researchers, resource workshops,
and a trip to IQC laboratories

Physics Teachers



Classroom Resources

Inspiring youth

GPS

Connecting Einstein's ideas to the GPS. Designed to highlight the everyday relevance of one of humankind's greatest intellectual achievements.

Grade's 9-12



Classroom Resources

Inspiring youth

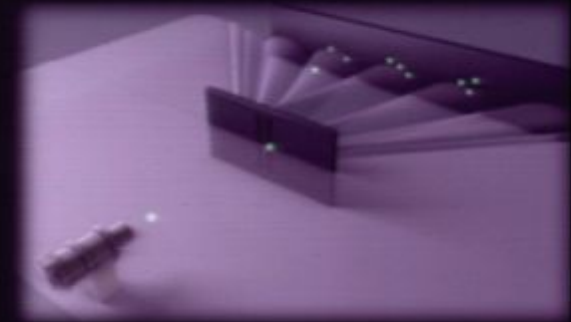
Each Resource includes:

Multimedia materials to share with your students

Editable Worksheets, activities and demonstrations for your students

Robust teacher resources to help you bring even the most technical ideas alive

Curriculum links



Outreach Mandate

To share the joy and the
mystery of science.

The Institute's second mandate

Outreach

*... what may be the most
ambitious intellectual experiment
on Earth”*

New Scientist

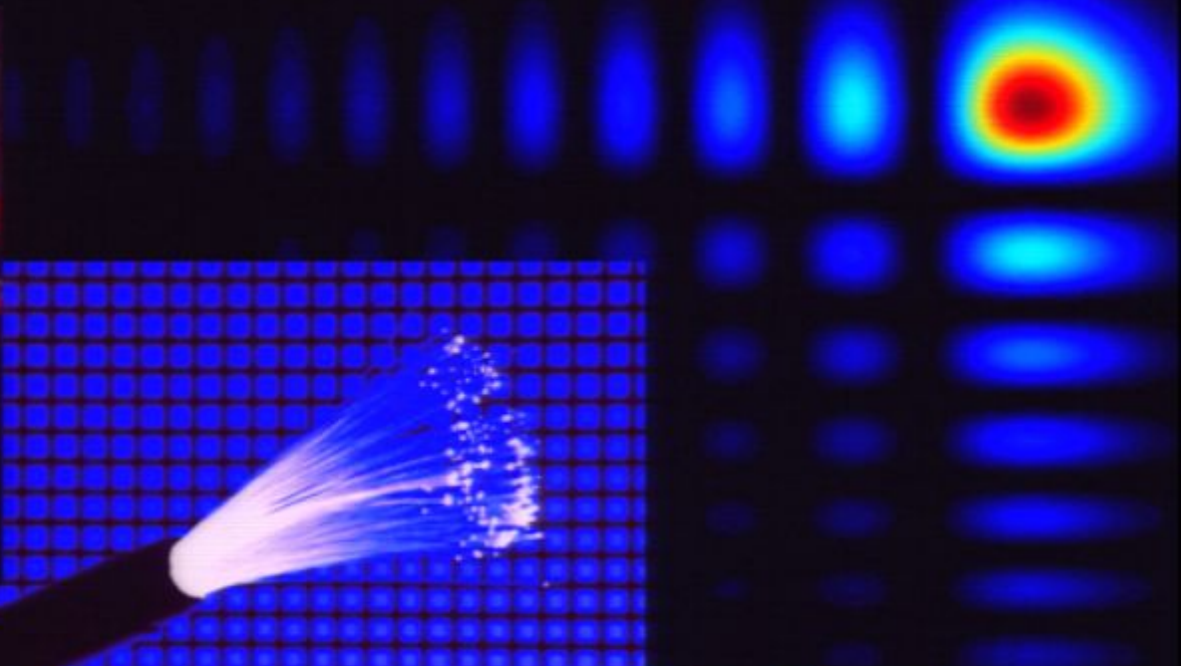
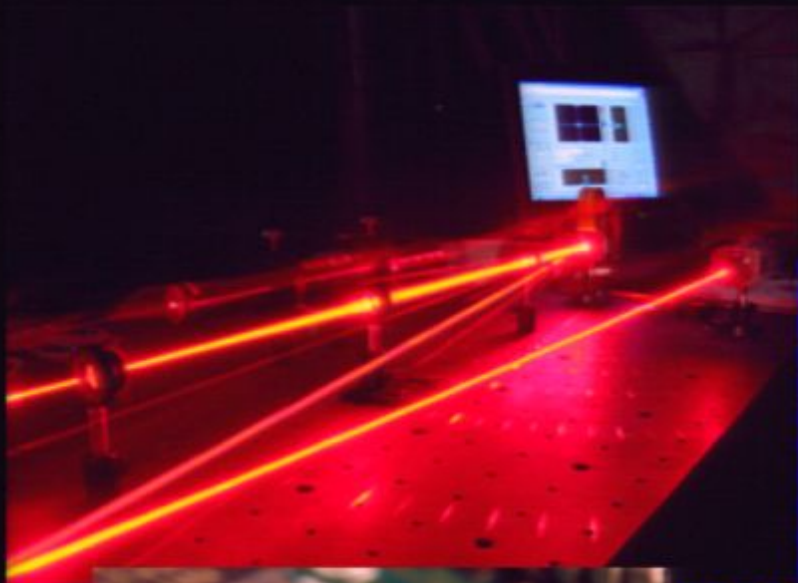
***“... what may be the most
ambitious intellectual experiment
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New Scientist











***“... what may be the most
ambitious intellectual experiment
on Earth”***

New Scientist

Outreach



Outreach Mandate

To share the joy and the
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The Institute's second mandate

Classroom Resources

Inspiring youth

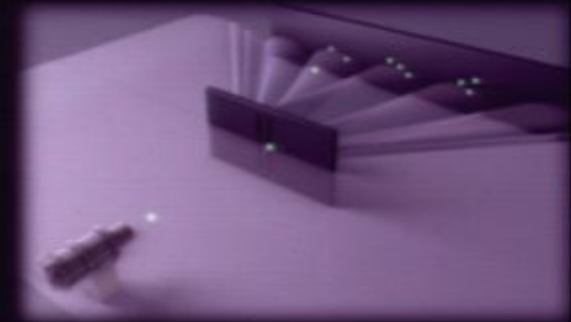
Each Resource includes:

Multimedia materials to share with your students

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Curriculum links



Classroom Resources

Inspiring youth

Physics of Innovation

Connects the abstract world of theoretical physics with today's technological world, including career connections.

Grade's 9-12



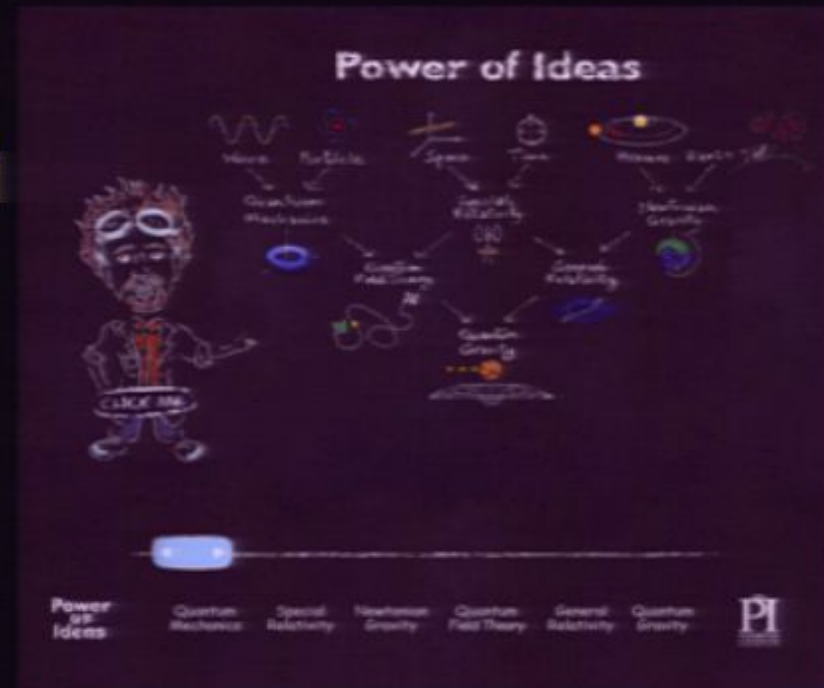
Classroom Resources

Inspiring youth

Power of Ideas

Explore the six most powerful ideas in physics history through this multimedia experience and discover the transformative effect they have had on our world.

Grade's 9-12



Classroom Resources

Inspiring youth

GPS

Connecting Einstein's ideas to the GPS. Designed to highlight the everyday relevance of one of humankind's greatest intellectual achievements.

Grade's 9-12



Classroom Resources

Inspiring youth

Quantum Reality

A rich introduction to quantum physics - the single most important advance in our understanding of the universe - via the double-slit experiment and the concept of wave-particle duality.

Grade 12



Classroom Resources

Inspiring youth

Dark Matter

Explore the mysterious substance that makes up about 90% of the mass of every galaxy in the universe called dark matter.

Grade 12



Classroom Resources

Inspiring youth

Planck's Constant

This universal constant lies at the heart of quantum physics. This hands on activity allows students to measure Planck's constant using LEDs.

Grade 12



Summer Programs

Inspiring youth

ISSYP

Two week modern physics camp
for top students.

Includes lectures, mentoring by PI
researchers, and a trip to SNOLAB

Grades 11 and 12



Summer Programs

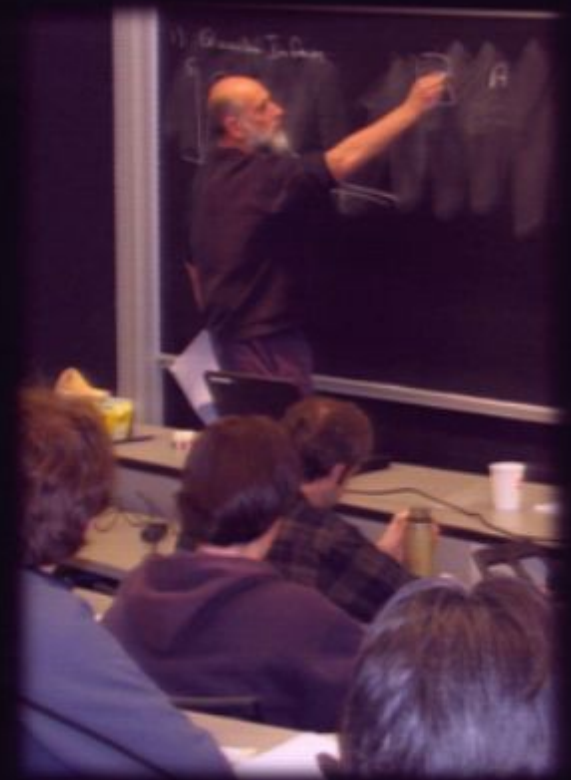
Inspiring teachers

Einstein Plus

One week modern physics camp
for top teachers.

Includes lectures by PI
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Physics Teachers

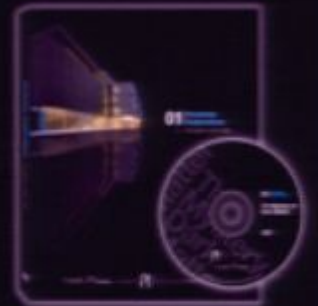


Online Resources

Resources and an example for the world

Digitized programs and products

Virtual ISSYP, Inspirations and Explorations video resources, Public Lectures and Festival events



Alice and Bob in Wonderland

Shares the mystery of science in 60 seconds

Meet a Scientist Clips

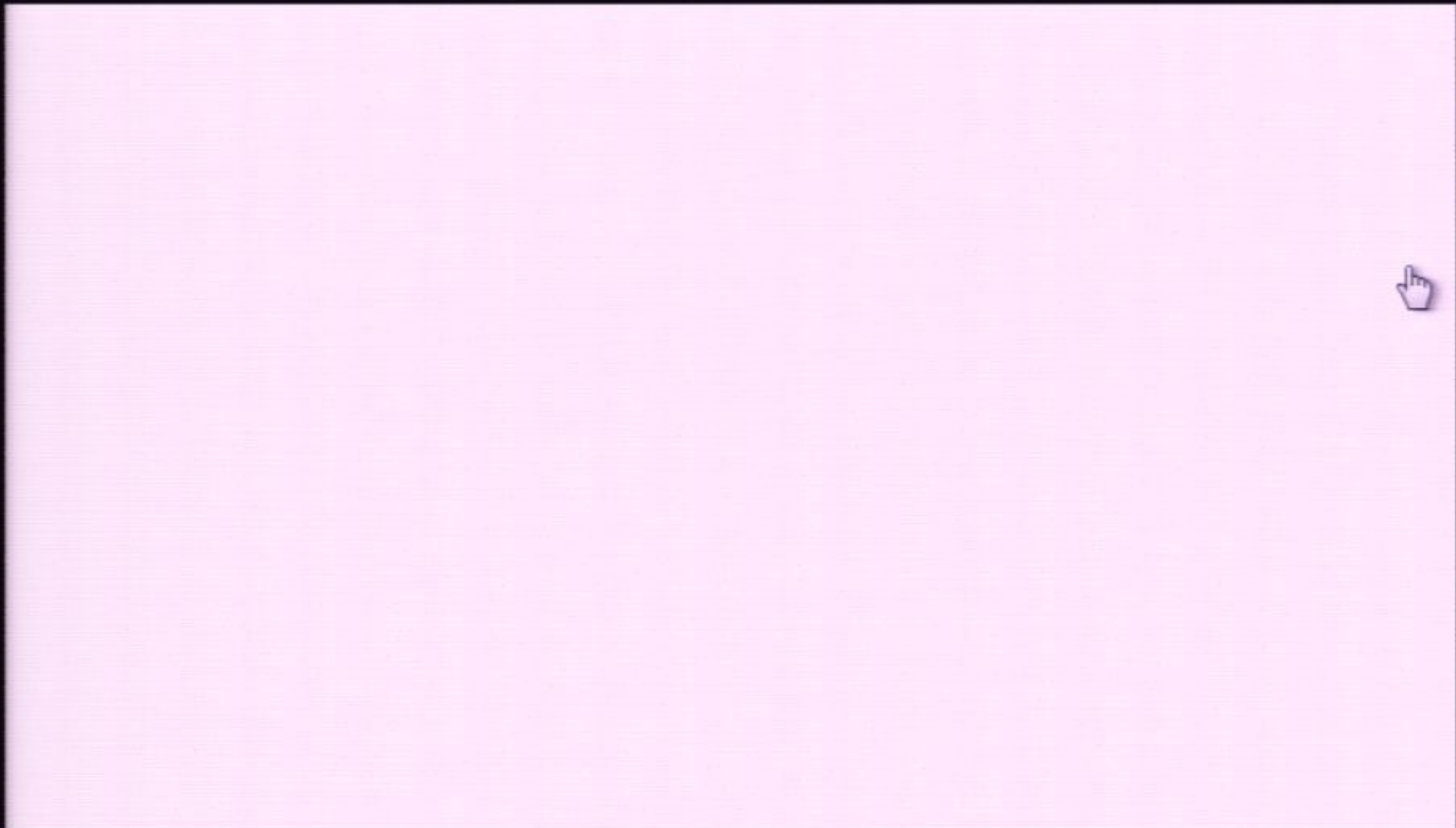
The human side of a career in physics



Online Resources



Online Resources



From Beginning Start Slide Show From Current Slide Custom Slide Show Set Up Slide Show Hide Slide Record Narration Rehearse Timings Use Rehearsed Timings Resolution: Use Current Resolution Show Presentation On: Use Presenter View

- 17 Summer Programs Einstein Plus
- 18 Online Resources
- 19 Online Resources
- 20



Alice and Bob: 9 episodes; 60 seconds; *Exploring the biggest questions ever asked about our universe.*

From Beginning Start Slide Show From Current Slide Custom Slide Show Set Up Slide Show Hide Slide Record Narration Rehearse Timings Use Rehearsed Timings Resolution: Use Current Resolution Show Presentation On: Use Presenter View

Slides Outline

- 17 Summer Programs Einstein Plus
- 18 Online Resources
- 19 Online Resources
- 20



Alice and Bob: 9 episodes; 60 seconds; *Exploring the biggest questions ever asked about our universe.*

From Beginning Start Slide Show From Current Slide Custom Slide Show Set Up Slide Show Hide Slide Record Narration Rehearse Timings Use Rehearsed Timings Set Up Resolution: Use Current Resolution Show Presentation On: Use Presenter View Monitors

- 17 Summer Programs Einstein Plus
- 18 Online Resources
- 19 Online Resources
- 20



PERIMETER **PI** INSTITUTE FOR THEOR

Alice and Bob: 9 episodes; 60 seconds; *Exploring the biggest questions ever asked about our universe.*

teacher network > 2010 11 > fall workshop > sessions

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 - fall workshop
 - sessions

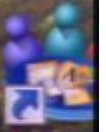
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4) B DM for grade 9.docx	11/10/2010 9:04 AM	Micros
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5) B Polarized Photons.docx	15/10/2010 6:54 AM	Micros
5) C Quantum Eraser.docx	11/10/2010 4:08 PM	Micros
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8) C Top quark.doc	11/10/2010 6:27 PM	Micros
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Craft time and Intro.docx	01/10/2010 5:50 PM	Micros
Intro to PI Oct 18.pptx	21/10/2010 10:03 ...	Micros
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supplies.docx	14/10/2010 6:38 AM	Micros



Adobe Reader
9



Recycle Bin



FirstClick



Desktop



The Weather Network



Skype



Adobe Reader
9



Recycle Bin



FirstClick



Desktop



The Weather Network · ...



Skype

A modern building with a dark facade and large glass windows is illuminated from within, creating a warm glow. The building is set against a vibrant, starry background of red and orange hues, suggesting a night sky or a digital space. The overall scene is framed by a dark, almost black border.

Perimeter Inspirations



Perimeter Inspirations

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Perimeter Inspirations

Play

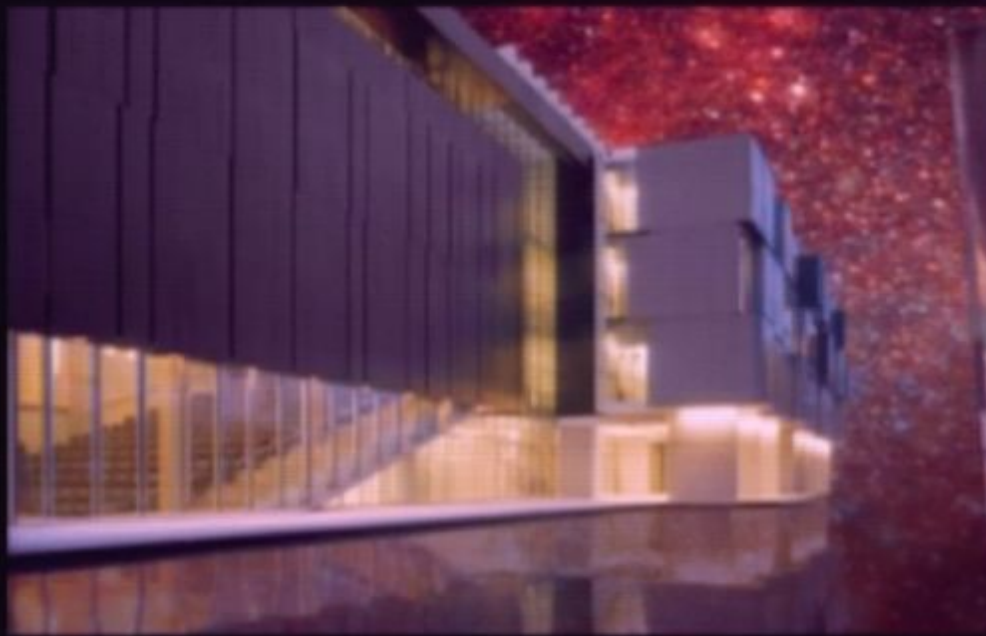
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