

**From:** Michael Jones <mdj@phys.hawaii.edu>  
**Subject:** Fwd: New Workshops, Summer Plans and the Invisible Universe (fwd)  
**Date:** March 4, 2021 at 9:13 AM  
**To:** aaphawaii-1@lists.hawaii.edu

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----- Forwarded message -----  
Date: Wed, 3 Mar 2021 22:35:39 -1000  
From: Mary Ann Kadooka <mkadooka@gmail.com>  
To: Michael Jones <mdj@phys.hawaii.edu>  
Subject: Fwd: New Workshops, Summer Plans and the Invisible Universe

Hi, Can you forward to AAPT listserv?  
Thanks,  
Mary

Sent from my iPad

Begin forwarded message:

From: Greg Dick <contact@perimeterinstitute.ca>  
Date: March 2, 2021 at 11:32:19 AM HST  
To: mkadooka@gmail.com  
Subject: New Workshops, Summer Plans and the Invisible Universe  
Reply-To: contact@perimeterinstitute.ca

New announcements and upcoming deadlines for summer programs!

[View in browser](#)

## Perimeter Institute Logo

### New Workshops

Workshop Preview Connect with fellow teachers and subject matter experts in our upcoming online teacher workshops:

- \* Stars & Stellar Evolution ? March 9 @ 7:00pm EST
- \* Black Holes Breakout Box ? March 17 @ 4:00pm EST
- \* Wave-Particle Duality: The Heart of Quantum Physics ? March 23 @ 7:00pm EST

[IMAGE]

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### Online Teachers' Camp

#### Group Photo from Online Teachers' Camp

Want to go even further than our workshops this summer? Join us to explore content and activities for your classroom, connect with other teachers, ask questions of Outreach staff, and learn from researchers working at the cutting edge of modern physics at our Online Teachers' Camp from July 5-9, 2021.

[IMAGE]

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### International Women's Day

Celebrate International Women's Day on March 8 with posters, videos, and more.

Celebrate International Women's Day on March 8 by downloading new Forces of Nature posters, tackling our Escape the Forces of Nature Museum online escape room activity, learning about life as a physicist from Perimeter's female scientists, or reviewing the great discussion from our Q&A event with a particle physicist, aerospace engineer, molecular biologist and oceanography student.

[IMAGE]

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### Applications Closing Soon

#### Learn more about ISSYP

High school students who are thinking deeply about gravity, black holes, or quantum mechanics should check out [www.issyp.ca](http://www.issyp.ca) for all the details on the International Summer School for Young Physicists. Applications will close on March 31! You can share this opportunity on Twitter and Facebook.

[IMAGE]

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Live Webcast: The Invisible Universe

Priyamvada Natarajan Photo

A hundred years ago, we believed that our own galaxy, the Milky Way, constituted the entire universe. We believed that the universe was stagnant. We did not know about the constituents of the universe ? dark matter and dark energy ? and we believed that we were special.

At the time, cosmological research relied on Newton?s conceptions of gravity. Since then, discoveries in modern physics, the triumphs of Einstein?s theory of general relativity, and the confluence of these ideas and instruments have completely transformed our understanding of space and time.

Today, we know that the universe is a dynamic and restless place, containing a billion galaxies or more. In her live lecture webcast on March 3 at 7 pm ET, astrophysicist Priyamvada Natarajan will guide the audience through what we currently know about the nature of these exotic components of the universe. [Read more.](#)

[IMAGE]

[IMAGE]

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