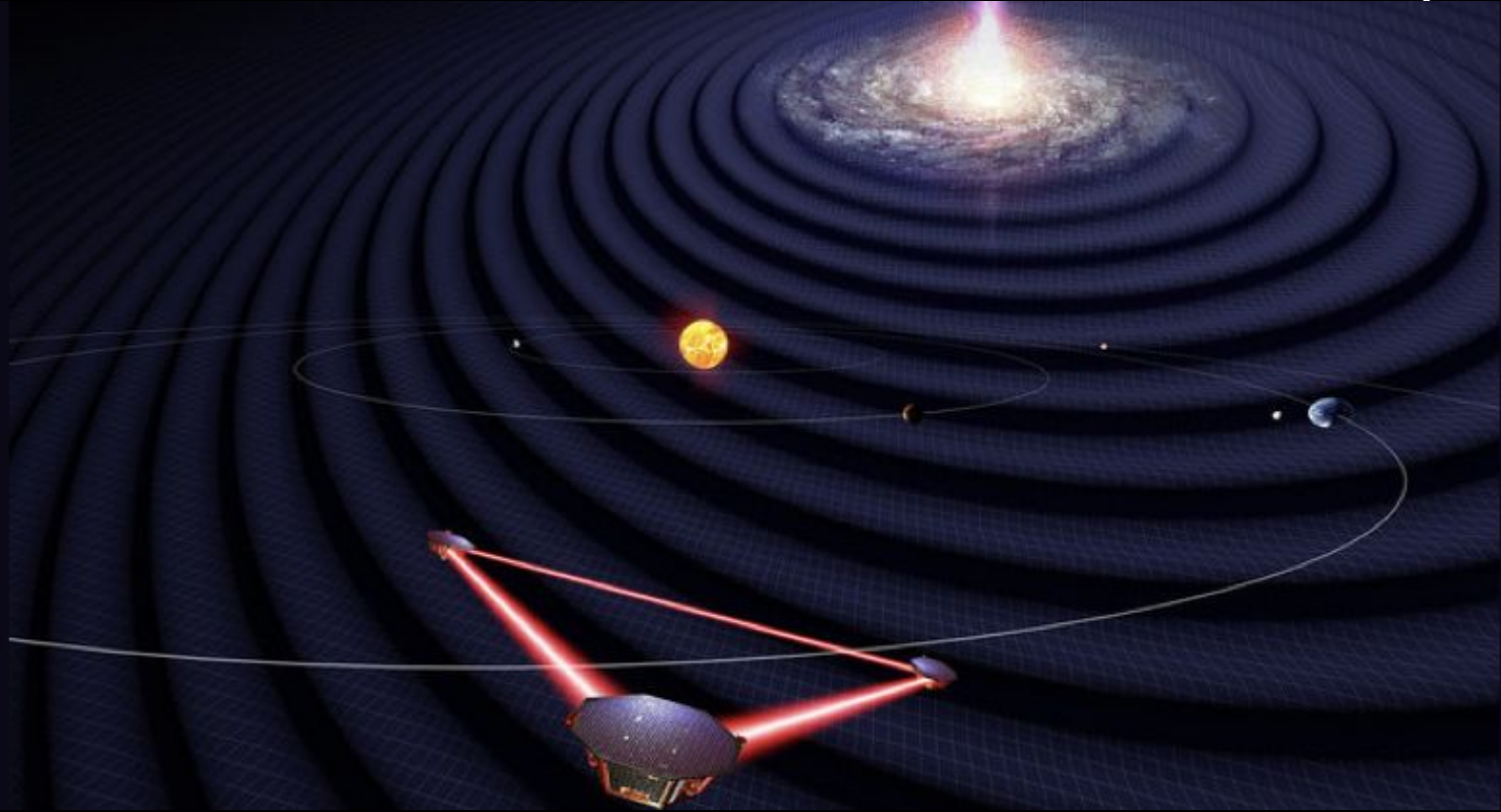


# Welcome to the LISA Canada 2021 workshop !



We'll get started at 07:45 am Pacific/10:45 am Eastern.

# LISA Canada 2021 workshop goals

- Introduce attendees to the LISA mission and science goals.
- Introduce the goals and scope of each LISA working group.
- Give attendees the opportunity to (virtually) meet and interact with speakers from leading roles within the LISA Consortium and ESA.
- Highlight collaboration opportunities with Canadians contributing to LISA science.
- Give an overview of potential Canadian contributions to LISA science.

*Questions and discussion are strongly encouraged!* Especially via Slack.

# LISA Canada 2021 workshop goals

As a product of this workshop, the organizing committee plans to draft and solicit input for a **summary report** of key outcomes.

- During the closeout session, we will identify:
  - Resources important to the Canadian LISA community.
  - Key questions and suggestions to follow up on.

Please keep an eye out for a post-workshop survey to help inform Canadian strategies for advancing LISA science.

# Overview of the workshop schedule

## Tuesday

	<b>Welcome</b> <i>Zoom</i>
08:00	<b>LISA Science Overview</b>  <i>Zoom</i>
	<b>LISA Detector Overview</b>  <i>Zoom</i>
09:00	<b>Break</b> <i>Zoom</i> <b>5 min break</b>
	<b>Panel: LISA in Canada</b> <i>Zoom</i>
10:00	<b>Astrophysics Working Group</b>  <i>Zoom</i>
	<b>Cosmology Working Group</b>  <i>Zoom</i>
11:00	

## Wednesday

08:00	<b>Data Processing Working Group</b>  <i>Zoom</i>
	<b>Data Challenge Working Group</b>  <i>Zoom</i>
09:00	<b>Highlights of Canadian Research Related to LISA</b>  <i>Zoom</i>
	<b>Break</b> <i>Zoom</i> <b>5 min break</b>
	<b>Simulation Working Group</b>  <i>Zoom</i>
10:00	<b>Fundamental Physics Working Group</b>  <i>Zoom</i>
	<b>Waveform Working Group</b>  <i>Zoom</i>
11:00	

## Thursday

08:00	<b>Overview of the LISA Consortium</b>  <i>Zoom</i>
	<b>LISA Hardware and Opportunities for New Contributions</b>  <i>Zoom</i>
09:00	<b>Break</b> <i>Zoom</i> <b>5 min break</b>
	<b>Parallel session discussion: Meet the LISA Leadership</b>  <i>Zoom</i>
10:00	<b>Advocacy and Outreach Working Group</b>  <i>Zoom</i>
	<b>Closeout</b>  <i>Zoom</i>
11:00	

# How to navigate Indico (for the uninitiated)

## LISA Canada Workshop

27-29 April 2021  
Zoom  
Canada/Pacific timezone

- Overview
- Timetable**
- Contribution List
- My Conference
  - My Contributions
- Registration
  - Modify my Registration
- Participant List
- Code of Conduct

Tue 27/04 | Wed 28/04 | Thu 29/04 | All days

07:00

Welcome  
Zoom

08:00

**LISA Science Overview**  
Zoom

**LISA Detector Overview**  
Zoom

09:00

Zoom

Print PDF Full

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### LISA Detector Overview

Place  
Location: Zoom

Files

Date: **27 Apr 08:45 - 09:30**

Description

In this talk we address the measurement concept and the main experimental challenges for creating LISA, the first orbiting gravitational wave observatory, focusing on the the mHz frequency band that is only accessible from space. The task of using laser interferometry to measure the gravitational wave tidal deformation of a constellation of free-falling test masses is discussed, both in the context of heritage from the single-spacecraft LISA Pathfinder ``Einstein geodesic explorer'' mission and for the unique remaining challenges to be met by the full 3-spacecraft LISA observatory.

# LISA Canada 2021 workshop code of conduct

- All participants, including attendees and organizers will treat each other with respect and conduct themselves in a professional manner that is welcoming to all everyone and free from any form of discrimination, harassment, or retaliation.
- Discriminatory, harassing or bullying behaviour or action of any kind will not be tolerated, and will result in immediate removal from this meeting and ban from all future LISA and LISA-Canada activities and notification of appropriate authorities, if necessary. This includes but is not limited to any form of sexual harassment, intimidation, threatening behaviour, sustained disruption, use of offensive or demeaning language including inappropriate jokes, unwanted photography, screenshots or recording, making statements based on individual characteristics such as age, race, ethnicity, sexual orientation, gender identity, gender expression, marital status, nationality, political affiliation, ability status, educational background, or any other characteristic protected by law.
- If you believe that you have been subject to or have witnessed behavior that violates this code of conduct, please report it immediately to the organizers. (Saurya Das: saurya.das@uleth.ca, Daryl Haggard: daryl.haggard@mcgill.ca).

You can reference the code of conduct on the workshop website!

# How to engage during the workshop

- **Please remain muted** unless you are a speaker or you are invited to speak (i.e. to voice a question) by the session chair.
- To pose a question to the speaker, please type your question into the Zoom chat.
- Speakers and attendees, we strongly encourage you to join the LISA Canada Slack: see the join link we circulated by email.
  - We have a pretty tight timetable; we intend to divert follow-up questions and discussions that run over time to Slack.
  - Slack gives us a more permanent forum to help us keep these discussions going after the workshop.
  - Questions or problems signing up? Please reach out to a workshop organizer.

# Accessing talk recordings

- Most (if not all) talks will be recorded and available to registered participants.
- We will not record discussion sessions.
- We will upload the recorded talks to a private 'LISA Canada' Youtube channel accessible only to conference registrants. The link to the talks will be provided in an email after the conference.



# LISA Canada workshop by the numbers

Of ~300 registered participants:

- 38% are faculty, research associates, or staff scientists
- 12% postdocs
- 32% are graduate students
- 11% are undergraduate students

Also here with us: industry representatives, scientists from ESA and the CSA

Warm welcome to all!

# LISA Canada workshop by the numbers

Of ~300 registered participants:

- 35% Canada
- 14% US
- 11% India
- 4% Germany
- 3% France
- 2% Brazil
- 2% China
- 2% Greece
- 2% Iran
- 2% Italy
- 2% Turkey
- 2% UK

Other represented countries (<2%):

- Australia
- Argentina
- Belgium
- Cyprus
- Ghana
- Ireland
- Japan
- Kuwait
- Mexico
- Nepal
- Netherlands
- Norway
- Pakistan
- Poland
- Portugal
- Romania
- Saudi Arabia
- Spain
- Switzerland
- Taiwan
- Ukraine

Total participating countries: 33, across 6 continents

# Please try to log into Slack!

Annotation question: what are you looking forward to during the workshop?

Learning more  
about LISA  
science

Learning more  
about the LISA  
instrument

Working group  
overviews and  
learning how to get  
involved

Discussions  
and virtual  
interactions

*Something else?*  
Type it here:

Everything!

Learning more about  
current Canadian  
LISA-related research