



IRSTIG 2022 Winter meeting: Dawn of a New Decade in IR Astrophysics

Welcome!

We will start at 1pm ET / 10am PT

Thank you for joining! This year's splinter "AAS" session is a collection of Flash Talks from community members.

IRSIG is now IRSTIG: Infrared Science and Technology Integration Group



We are a community-driven group with a primary mission to collect community input, foster consensus, and help shape the long-term goals of IR astrophysics!

The IRSTIG roughly covers a wavelength range from ALMA through SOFIA through Webb and Roman.

We host monthly seminars on topics covering both science and technology:

<https://cor.gsfc.nasa.gov/sigs/irsig.php>

Sign up to our email list here!

https://cor.gsfc.nasa.gov/sigs/irsig/maillist/irsig_maillist.php

- Please use the 'raised hand' function to ask questions. The chair will tell you to unmute when ready.
- You can use the chat function for comments

- **This meeting is a respectful, collaborative environment! Please treat everyone with respect!**
- The meeting is being recorded
- Please refrain from sharing screenshots from presentations without author's express consent.

Today's Agenda

Flash talks are:

**5 minutes presentation
+ 3 minutes for questions**

**Apologies to the presenters, but
we will do our best to keep time!**

IRSTIG	1:00 PM	Introduction and Welcome
Rachel Osten	1:05 PM	Impressions of the Decadal
Jorge L. Pineda	1:15 PM	The Astrophysics Stratospheric Telescope for High Spectral Resolution Observations at Submillimeter-wavelengths, ASTHROS
Carrie Volpert	1:23 PM	An Update on the Experiment for Cryogenic Large-Aperture Intensity Mapping (EXCLAIM): an instrument advancing line-intensity-mapping techniques, and the use of KID-based microwave spectrometers.
Jason Glenn	1:31 PM	Science, Required Technology, and Scope of a Probe-Class Far-Infrared Observatory
Serena Tramm	1:39 PM	The Cosmic Infrared Background Experiment-2: First Flight Status Report
Margaret Meixner	1:47 PM	SOFIA Supporting the IR/FIR Community
Edward L Wright	1:55 PM	The Near Earth Object Surveyor
Sunil Golwala	2:03 PM	The Leighton Chajantor Telescope
Kathleen Kraemer	2:11 PM	IRB: The Infrared Balloon Payload for High-Accuracy, High-Precision Photometry
Elizabeth Tarantino	2:19 PM	Modeling Ionized Gas at Low Metallicities: The Wolf-Rayet Emission Nebula N76
Christopher K. Walker	2:27 PM	Orbiting Astronomical Telescope for Investigating Stellar Systems: OASIS
Paul Goldsmith	2:35 PM	The GUSTO Balloon Mission
Andrey Baryshev	2:43 PM	Millimetron Space Mission
IRSTIG	2:51 PM	Open Discussion & Adjourn

The conversation continues at the next IRSTIG meeting...

Opportunity to synthesize the priorities and recommendations of the Astro2020 Decadal Survey, and to provide a forum for thoughtful discussion and deliberation about the future of our field in the next decade and beyond:

- Precursor Science - What Science Do We Need to Do Now?
- Future Science - What are the Science Cases for Future Missions?
- Technology Development for Future FIR Missions
- Probes and Flaglets for the FIR
- The Role of Sub-Orbital in Technology and Science
- The Future of SOFIA
- Putting the 'IR' in LUVVOIR
- Creating a Coherent Vision Over Three Decades in Wavelength



Astro2020 and IR Astrophysics: Planning for the Next Decade

March 30 - April 1, 2022

Boulder, CO

Registration opening soon at :

<https://casa.colorado.edu/~memma5817/irworkshop.html>