



54TH SLAC SUMMER INSTITUTE
**Quantum Probes
for a Quantum Universe**

Welcome to **SLAC** & the
54th SLAC SUMMER INSTITUTE !!

You are here

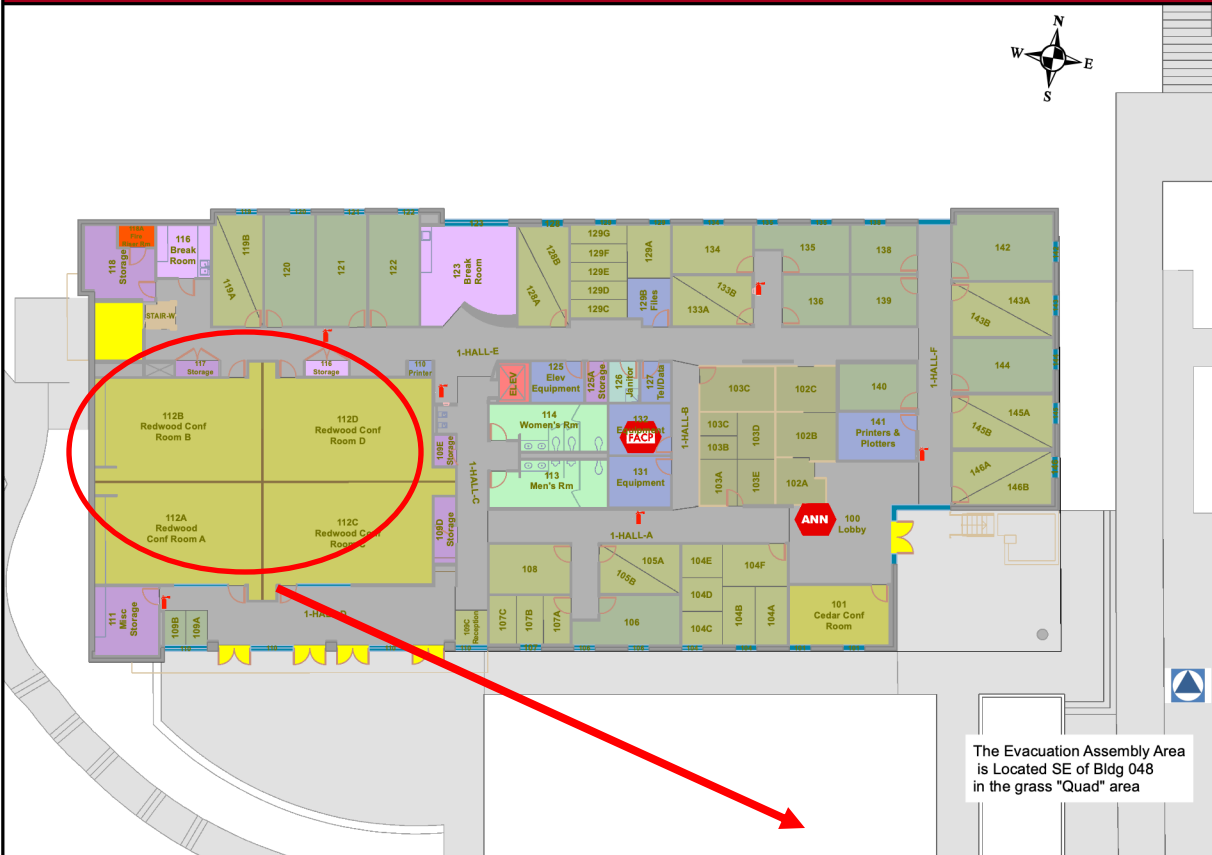


Fires & Earthquakes

EMERGENCY EVACUATION PLAN

048 - Research Office Building

Ground Floor



FIRE

- 1. REPORT THE FIRE**
 - Call 911 on a SLAC phone
 - Use a Fire Alarm Pull Station if available
- 2. CONFINE THE FIRE**
 - Close doors to confine the fire
- 3. EVACUATE IF SAFE (YOUR JUDGMENT)**
 - Feel upper part of door—if it is hot do not open it
 - Open door slowly if it is not warm
 - Use stairway—never use elevators
- 4. GO TO THE EVACUATION ASSEMBLY AREA**
 - Report missing persons to the leader

EARTHQUAKE

- 1. DUCK**
- 2. FIND SAFE COVER AND HOLD**
 - Keep away from windows
 - Keep away from shelving
 - Keep away from heavy objects
 - Do not use the Fire Alarm Pull Station
- 3. EVACUATE IF SAFE (YOUR JUDGMENT)**
 - Use stairway—never use elevators
- 4. GO TO THE EVACUATION ASSEMBLY AREA**
 - Report missing persons to the leader



YOU
ARE HERE



EXIT



FIRE
EXTINGUISHER



AUTOMATED
EXTERNAL
DEFIBRILLATOR



FIRE ALARM
CONTROL
PANEL

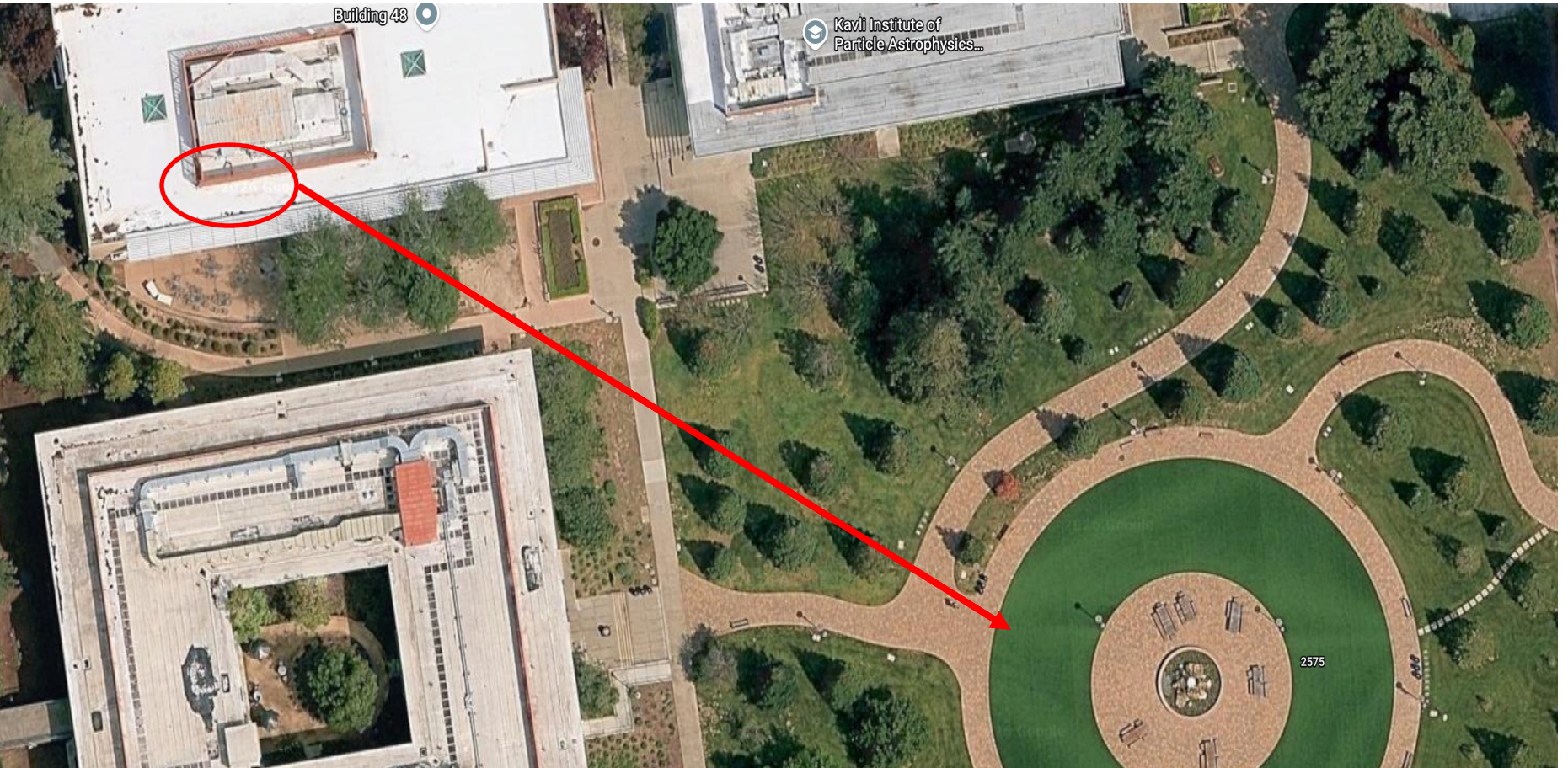


EVACUATION
ASSEMBLY
AREA

1. GO TO YOUR EVACUATION ASSEMBLY AREA

- The evacuation assembly area for Bldg 048 (ROB) is in the grass "Quad" area
- Report missing and injured persons to the assembly leader

For earthquakes: duck, take cover & hold position until shaking stops



Be Prepared !!

B048 - 2026 Building Evacuation Drill



○ b048-l <b048-l@slac.stanford.edu> on behalf of

○ Berner, Justin R <000014838aa8c88c-dmarc-request@LISTSERV.SLAC.STANFORD.EDU>

Today at 8:10 AM

To: b048-l

This notice is to inform you that SLAC's Fire Marshal Office, with the support of Security, Emergency Management, and Facilities will be conducting our annual Building Evacuation Drills in the near future:

Building 048, During the week of August 10th – time is unannounced

For the evacuation process to be accomplished quickly, safely, and successfully, please follow these guidelines:

To ALL Building Occupants

- Exit the building in a calm manner and assist anyone that may need help
- DO NOT use the elevators (if your building has one)
- Be prepared, **as a group**, to answer three questions:
 - Is Anybody in the building (Talk amongst the evacuees)?
 - Is ANYONE hurt?
 - Do you know what triggered this alarm?
- Please note that the building will only be re-occupied after ALL employees have been evacuated, and the building has been swept.
- Anticipated time for the drill is 20-30 minutes

Managers and Supervisors

- Report to Security / Emergency Response Team (ERT) Member located at the primary Emergency Assembly Area any employee(s) that you believe may still be inside of the building
- If there are employees within your group with permanent/temporary disabilities, please establish an effective means of communication and evacuation (ie: "buddy system")

Everything you need to know is on the SSI webpage..



54th SLAC Summer Institute (SSI 2026)

10–14 Aug 2026
SLAC
America/Los_Angeles timezone

Enter your search term 

Overview

Call for Abstracts

Timetable

My Conference

My Contributions

Program Summary

Registration

Participant List

Projects

Q & A Session

Speaker Information

Accommodations

Practical Information

Tours

Social Events

Visa Information

Past SSI

Land Acknowledgement

Code of Conduct

The SLAC Summer Institute (SSI) is an annual Summer School tradition since 1973. The theme of the week-long 54th SLAC Summer Institute is “*Quantum Probes for a Quantum Universe*”. Advances in quantum sensors are opening up exceptional science opportunities in a wide range of fundamental physics areas, including dark matter, axion, gravity and the neutrino sector. Their exquisite performance has greatly extended the parameter space that can be studied experimentally, and further advances will continue to push the boundaries of our knowledge of fundamental physics.

The lectures at the 54th SLAC Summer Institute in 2026 will cover the principles of quantum sensors, their application in experiments to date and future prospects, providing a balance between technology and science. The Institute lectures are primarily aimed at senior graduate students and postdocs. No prior experience with quantum sensing is required. In addition, contributed presentations, participant projects, Q&A sessions, and social events supplement the lectures to create an invigorating environment for all participants.

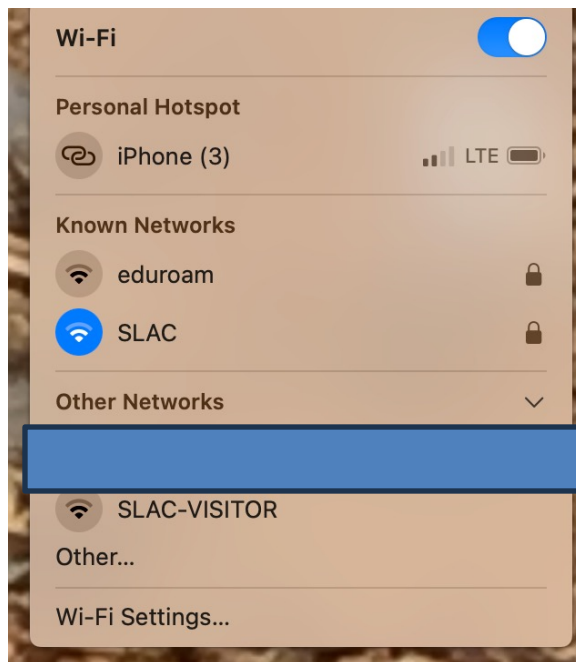
Please connect with SSI on Facebook: <https://www.facebook.com/SLACSummerInstitute>

Important dates

Apr/7	Registration opens.
Jun/25	Stanford Guest House SSI room block expires.
Jun/29	Late registration fees apply.
Aug/1	Abstract submission closes.

6

Please use eduroam or SLAC-VISITOR networks for wifi



<https://it.slac.stanford.edu/support/KB0010023>

<https://confluence.slac.stanford.edu/display/NetMan/Eduroam+service+at+SLAC>

Please read & act accordingly !

Overview

Program

Poster Session

Registration

Conference Fee Payment
Link

Dinner Information

Participant List

My Conference

My Contributions

Visa Information

Accommodations

Code of Conduct

Land Acknowledgement

Support

✉ ssi@slac.stanford.edu

Code of Conduct



The SLAC Summer Institute is a community event intended for networking and collaboration as well as learning. We value the participation of everyone and want all attendees to have an enjoyable and fulfilling experience. Accordingly, all attendees are expected to show respect and courtesy to other attendees and to abide by the following Code of Conduct. Any issues can be brought to the confidential attention of the organizers and we thank you for helping make these events welcoming and friendly event.

CODE OF CONDUCT

The community of participants of the SLAC Summer Institute is made up of members from around the globe with a diverse set of skills, personalities, and experiences. It is through these differences that our community experiences success and continued growth. We expect everyone in our community to follow these guidelines when interacting with others both inside and outside of our community. Our goal is to keep ours a positive, inclusive, successful, and growing community.

As members of the community,

- We pledge to treat all people with respect and provide a harassment- and bullying-free environment, regardless of sex, sexual orientation and/or gender identity, disability, physical appearance, body size, race, nationality, ethnicity, and religion. In particular, sexual language and imagery, sexist, racist, or otherwise exclusionary jokes are not appropriate.
- We pledge to respect the work of others by recognizing acknowledgment/citation requests of original authors. As authors, we pledge to be explicit about how we want our own work to be cited or acknowledged.
- We pledge to welcome those interested in joining the community, and realize that including people with a variety of opinions and backgrounds will only serve to enrich our community. In particular, discussions relating to pros/cons of various technologies, programming languages, and so on are welcome, but these should be done with respect, taking proactive measure to ensure that all participants are heard and feel confident that they can freely express their opinions.
- We pledge to welcome questions and answer them respectfully, paying particular attention to those new to the community.
- We pledge to be conscientious of the perceptions of the wider community and to respond to criticism respectfully. We will strive to model behaviors that encourage productive debate and disagreement, both within our community and where we are criticized. We will treat those outside our community with the same respect as people within our community.
- We pledge to help the entire community follow the code of conduct, and to not remain silent when we see violations of the code of conduct. We will take action when members of our community violate this code such as notifying a workshop organizer or talking privately with the person.

This code of conduct applies to all community situations online and offline, including the meetings themselves, mailing lists, forums, social media, social events associates with the conference, and one-to-one interactions.

Participants asked to stop any harassing behavior are expected to comply immediately. Attendees violating these rules may be asked to leave the event at the sole discretion of the organizers.

For a Quick Overview

Program Summary



- Three lectures are scheduled for each morning.
- Early afternoons have Q&A sessions.
- Projects will be announced just before start of SSI and teams will be formed at projects kickoff on Monday Aug/10 and Team presentations on Thursday August/13.
- Participant contributed talks are scheduled for some of the afternoons.
- Tours of SLAC facilities are planned for Aug/11,12.



SSI2026 - Quantum Probes for a Quantum Universe					
Time / Date	10-Aug Monday	11-Aug Tuesday	12-Aug Wednesday	13-Aug Thursday	14-Aug Friday
9:00--10:00	Why Do We Care about QIS in HEP/NP? Konrad Lehnert	Neutrino Physics Theory & Quantum Sensing Patrick Huber	Low-mass Particle-like DM Tongyan Lin	Theory of Light Particles and Fields Yonatan Kahn	Gravity Theory Dan Carney
10:00--10:30	Morning Break				
10:30--11:30	Photonics: Non-Linear Photon Conversion and QL Amplifiers Kevin O'Brien	v-techniques for v Experiments Joe Formaggio	Superconducting Sensors in DM Particle Detection Clarence Chang	Cavities and Experiments Danielle Speller	Interferometric Experimental Techniques Vicky Xu
11:30 -- 11:45	Morning Break				
11:45--12:45	Circuit QED for Photon Counting & Pair-Breaking Sensors Karthik Ramanathan	Optomechanical Sensor Techniques David Moore	Experimental Landscape for Particle-like DM Dan Baxter	Astrophysics with Quantum Probes Ritoban Basu Thakur	QIS at Energy Frontier Andreas Jung
12:45--13:30	Lunch				
13:30--14:15	Q&A	Tour	Tour	Q&A	Views Ahead
14:15--14:30					Chelsea Bartram

Indico

Slides & links to videos of the lectures will both be found here - as can the Q&A links

MONDAY 10 AUGUST

08:30 → 09:00

Registration and Light Refreshments

🕒 30m 📍 048 - Redwood Rooms

09:00 → 12:45

Lectures

📍 48/1-112A/B/C/D - Redwood ...

09:00

Welcome
Speaker: Dr Thomas Rizzo (SLAC)

🕒 10m 📍 48/1-112A/B/C/D - Redwood ...

[🔗 Q&A](#)

09:10

Why Do We Care about QIS in HEP/NP ?
Speaker: Konrad Lehnert (Yale University)

🕒 1h 📍 48/1-112A/B/C/D - Redwood ...

[🔗 Q&A](#)

10:10

Morning Break

🕒 20m 📍 48/1-112A/B/C/D - Redwood ...

10:30

Photonics: Non-Linear Photon Conversion and QL Amplifiers
Speaker: Kevin O'Brien (MIT)

🕒 1h 📍 48/1-112A/B/C/D - Redwood ...

[🔗 Q&A](#)

11:30

Break

🕒 15m 📍 48/1-112A/B/C/D - Redwood ...

11:45

Circuit QED for Photon Counting & Pair-Breaking Sensors
Speaker: Karthik Ramanathan (Caltech)

🕒 1h 📍 48/1-112A/B/C/D - Redwood ...

[🔗 Q&A](#)

12:50 → 13:30

Lunch

🕒 40m 📍 Cafeteria

13:30 → 14:15

Q & A

📍 48/1-112C/D - Redwood C/D

14:15 → 15:15

Projects: Kickoff

📍 48/1-112C/D - Redwood C/D

Q & A

There are several ways/venues to ask questions of the lecturers (see link) :



- (i) At the Q&A period at the end of the lecture itself - these should be **concise**..
- (ii) Informally during one of the breaks
- (iii) During the daily Q&A sessions – this is best for questions that may require extensive answers/discussions
- (iv) If you feel uncomfortable to ask a ? use the Q&A link on indico & we'll get to these ASAP...

Other Reminders

- Please sign up for the tours (~lunchtime on T/W) on the SSI homepage if interested
- Contributed talks by attendees will take place after the Q&A sessions on both Tues & Wed afternoons –
Speakers: please upload your slides directly into indico or give us a stick ASAP
- Group photo later this AM →
- Project organization - will be discussed this afternoon after the Q&A session. Please check the Projects link on the SSI homepage



Group photo at ~10AM today after the 1st lecture
Follow Glenna!



Lastly....

- The Redwood Rooms are famous for having sensitive mics
- at least the half of the room on the speaker's left... **so** if you don't want your comments recorded be careful how loud you whisper & what you say...