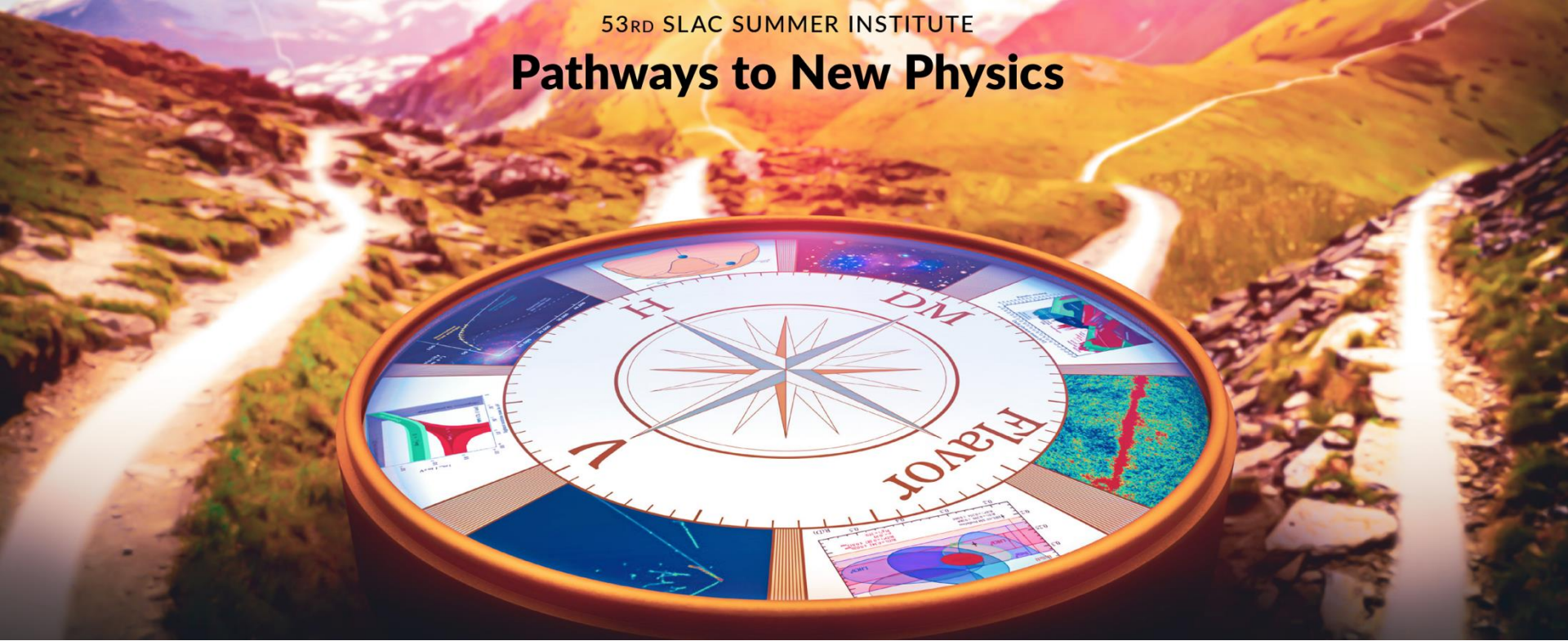


Pathways to New Physics



Welcome to the
53rd SLAC SUMMER INSTITUTE !!

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

28 July 2025 to 8 August 2025
SLAC
America/Los_Angeles timezone

Enter your search term 

Overview

Timetable

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Land Acknowledgement

Code of Conduct

Support

 ssi@slac.stanford.edu

The SLAC Summer Institute (SSI) is an annual two-week-long Summer School tradition since 1973. The theme of the 53rd **SLAC** Summer Institute is “Pathways to New Physics”. Although the Standard Model is very successful at explaining much of what we see, the solutions to many remaining puzzles clearly call for the existence of new physics. As the exact resolution to these mysteries are presently unknown, it behooves us to simultaneously explore multiple trails, guided by the advance in our understanding of e.g. the nature of Dark Matter, the properties of the Higgs boson and neutrinos, as well as the many issues related to flavor.

SSI 2025 has transitioned to ZOOM only and everyone is welcome to register free of charge.

The lectures at the [53rd SLAC Summer Institute in 2025](#) will discuss the possible pathways to the discovery of new physics. The Institute lectures are primarily aimed at senior graduate students and postdocs. Due to the budgetary and visa related difficulties for attending the normal on-site program, the **program has transitioned to ZOOM only** as of Jun/13, to be a morning lectures only program with integrated Q&A. ZOOM connection info will be announced to registered participants shortly before SSI starts. Due to the time zone disparity for ZOOM-only mode other programs originally planned for the afternoons (projects, poster session, tours and social events etc.) are cancelled.

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

Important dates

Mar/13	Registration, poster abstract submission and tour/event signup open.
Jun/13	Transitioned to ZOOM only program.
Jul/24	Release of ZOOM link for registered participants
Jul/28	SSI lectures start.

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

53rd SLAC Summer Institute (SSI 2025)



28 Jul 2025, 08:30 → 8 Aug 2025, 19:00 America/Los_Angeles

ZOOM-only (SLAC)

Charlie Young , Dong Su , Greg Madejski , Mark Convery , Richard Partridge , Thomas Rizzo

Description The SLAC Summer Institute (SSI) is an annual two-week-long Summer School tradition since 1973. The theme of the 53rd SLAC Summer Institute is "Pathways to New Physics". Although the Standard Model is very successful at explaining much of what we see, the solutions to many remaining puzzles clearly call for the existence of new physics. As the exact resolution to these mysteries are presently unknown, it behooves us to simultaneously explore multiple trails, guided by the advance in our understanding of e.g. the nature of Dark Matter, the properties of the Higgs boson and neutrinos, as well as the many issues related to flavor.

SSI 20205 has transitioned to ZOOM only and everyone is welcome to register free of charge.

The lectures at the [53rd SLAC Summer Institute in 2025](#) will discuss the possible pathways to the discovery of new physics. The Institute lectures are primarily aimed at senior graduate students and postdocs. Due to the budgetary and visa related difficulties for attending the normal on-site program, the **program has transitioned to ZOOM only** as of Jun/13, to be a morning lectures only program with integrated Q&A. ZOOM connection info will be announced to registered participants shortly before SSI starts. Due to the time zone disparity for ZOOM-only mode other programs originally planned for the afternoons (projects, poster session, tours and social events etc.) are cancelled.

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Support [✉ ssi@slac.stanford.edu](mailto:ssi@slac.stanford.edu)

Registration

You are registered for this event.

[Check details](#)

Participants

346 [View full list](#)

Q & A

Practical/Technical Questions : use **chat only** to push questions to the organizers...**NOT (!)** questions for the lecturers. Physics questions on chat will be strictly ignored.

Physics Questions : use the Q&A feature on the Zoom Webinar link. Questions will be put to the lecturers by one of the convenors after each lecture

Unanswered question will be forwarded on to lecturers & answers should appear in the Q&A links on Indico associated w/ each lecture

Please limit yourselves to concise questions !

Notice

Be careful, patient & considerate when downloading from the indico site

09:05

The Higgs: What We Know & What We Want to Learn

Speaker: Sally Dawson (BNL)

🕒 55m



Zoom recording here but can be delayed

SSI25 issues no certificates of attendance