

Session Program

10-14 Aug 2026



54th SLAC Summer Institute (SSI 2026)

Lectures

SLAC, 48/1-112C/D - Redwood C/D

Monday 10 August

09:00

Lectures

Session | **Location:** SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

09:00-09:10 **Welcome**

Speaker

Dr Thomas Rizzo

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

09:10-10:10 **Why Do We Care about QIS in HEP/NP ?**

Speaker

Konrad Lehnert

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

10:10-10:20 **SSI 2026 group photo**

10:20-10:30 **Morning Break**

10:30-11:30 **Photonics: Non-Linear Photon Conversion and QL Amplifiers**

Speaker

Kevin O'Brien

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

11:30-11:45 **Break**

11:45-12:45 **Quantum Sensors for Photon Counting & Pair Breaking**

Speaker

Karthik Ramanathan

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

12:45

Tuesday 11 August

09:00

Lectures

Session | **Location:** SLAC, 48/1-112C/D - Redwood C/D

09:00–10:00 **Neutrino Physics and Quantum Sensing**

Speaker

Patrick Huber

Location

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10:00–10:30 **Morning Break**

10:30–11:30 **ν -techniques for ν experiments**

Speaker

Joe Formaggio

Location

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11:30–11:45 **Break**

11:45–12:45 **Optomechanical Sensor Techniques**

Speaker

David Moore

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

12:45

Wednesday 12 August

09:00

Lectures

Session | **Location:** SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

09:00–10:00

Low Mass Particle-like Dark Matter

Speaker

Tongyan Lin

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

10:00–10:30

Morning Break

10:30–11:30

Superconducting Sensors for Particle-like Dark Matter Searches and Beyond

Speaker

Clarence Chang

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

11:30–11:45

Break

11:45–12:45

Experimental Landscape for Particle-like Dark Matter Searches Utilizing QS Techniques

Speaker

Daniel Baxter

Location

SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

12:45

Thursday 13 August

09:00

Lectures

Session | **Location:** SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D

09:00–10:00 **Theory of Light Particles and Fields**

Speaker

Yonatan Kahn

10:00–10:30 **Morning Break**

10:30–11:30 **Cavities and Experiments**

Speaker

Danielle Speller

11:30–11:45 **Break**

11:45–12:45 **Astrophysics with Quantum Probes**

Speaker

Ritoban Basu Thakur

12:50

Friday 14 August

09:00

Lectures

Session | **Location:** SLAC, 48/1-112A/B/C/D - Redwood A/B/C/D**09:00–10:00 Gravity Theory****Speaker**

Daniel Carney

10:00–10:30 Morning Break**10:30–11:30 Interferometric Experimental Techniques****Speaker**

Vicky Xu

11:30–11:45 Break**11:45–12:45 QIS Frontiers****Speaker**

Andy Jung

12:45–12:50 Closing Remarks

12:50

13:30

Lectures

Session | **Location:** SLAC, 48/1-112C/D - Redwood C/D**13:30–14:30 Views Ahead****Speaker**

Chelsea Bartram

Location

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17:20