



ALEGRO

2025 WORKSHOP

ADVANCED
LINEAR
COLLIDER
STUDY GROUP

Agenda and Plans



ALEGRO Workshop, SLAC
March 4-6, 2025



Welcome!

Thank you for joining us at SLAC. We are thrilled to have you here for the workshop.

This is a **workshop**, not a conference. You are here to propose new ideas, challenge the status quo, and engage with your fellow attendees.

You will hear a lot about the **10 TeV Wakefield Collider Design Study** during this meeting. We are just starting the design study. All ideas are on the table!



STARTS
MAR 4TH, 8:00AM

—

ENDS
MAR 6TH, 5:30PM

ADVANCED LINEAR COLLIDER STUDY GROUP 2025 WORKSHOP

The ALEGRO (Advanced LinEar collider study GROup) Workshop will concentrate on addressing the recent progress and necessary steps towards realizing a linear collider for particle physics based on novel-accelerator technology.

ORGANIZERS

BRIGITTE CROS
PATRIC MUGGLI
SPENCER GESSNER

LOCATION

**SLAC NATIONAL ACCELERATOR
LABORATORY, 2575 SAND HILL
RD, MENLO PARK, CA 94025**

The Workshop will feature plenary sessions organized around the "Grand Challenges" of Wakefield Collider design. Afternoons will be dedicated to discussion sessions organized around the 10 TeV Wakefield Collider Design Study Working Groups. There will be a session to review and comment on the input to the European Strategy for Particle Physics (ESPP) Roadmap Process.


ALEGRO


SLAC NATIONAL
ACCELERATOR
LABORATORY

 Learn More
indico.slac.stanford.edu/event/9402/

Agenda

Plenary in Kavli

Working Groups in B51 and B48

Tue 04/03 [Go back](#) | [Print](#)

08:00	Introduction <i>Spencer Gessner</i>			
09:00	51/1-102 - Kavli Auditorium, SLAC 08:30 - 09:30			
	Coffee 09:30 - 10:00			
10:00	Collider Grand Challenges <i>Jens Osterhoff</i>			
11:00	51/1-102 - Kavli Auditorium, SLAC 10:00 - 11:00			
	Collider Grand Challenges <i>Jens Osterhoff</i>			
12:00	51/1-102 - Kavli Auditorium, SLAC 11:00 - 12:00			
	Group Photo 12:00 - 12:30			
13:00	Lunch 12:30 - 14:00			
14:00	Working Group: LWFA + PWFA + Laser Driver + Sims, Topic: LWFA staging <i>Dr Francesco Massimo</i>	Working Group: Beam-Beam + MDI+ Detector + Physics, Topic: Physics with primary + beamstrahlung interactions <i>Simon Knapen, Spencer Gessner</i>	Working Group: SWFA + Beam Drivers, Topic: SWFA drivers and linac <i>John Power, Xueying Lu</i>	Working Group: Sources, Topic: Source brightness <i>Siddharth Karkare</i>
15:00	51/1-102 - Kavli Auditorium, SLAC 14:00 - 15:30	48/1-112A/B - Redwood A/B, SLAC 14:00 - 15:30	48/1-112C/D - Redwood C/D, SLAC 14:00 - 15:30	51/3-305 - Kavli 3rd Floor, SLAC 14:00 - 15:30
	Coffee 15:30 - 16:00			
16:00	Working Group: LWFA + PWFA + Sources + Drivers + Sims, Topic: Comparing electron and proton drivers <i>Livio Verra</i>	Working Group: Physics + Detector, Topic: Physics Benchmarks discussion <i>Nicole Hartman, Simon Knapen</i>	Working Group: Beam-beam + Sims, Topic: Beam-Beam simulation tasks <i>Thomas Grismayer</i>	Working Group
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18:00	Welcome Reception			

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09:00	Collider Grand Challenges			
10:00	51/1-102 - Kavli Auditorium, SLAC 09:00 - 10:00			
	Coffee 10:00 - 10:30			
11:00	Wakefield Accelerator Technology			
12:00	51/1-102 - Kavli Auditorium, SLAC 10:30 - 12:30			
13:00	Lunch 12:30 - 14:00			
14:00	Working Group: BDS + MDI, Topic: BDS and MDI workflow <i>Nicole Hartman, Vera Cilento</i>	Working Group: LWFA + Laser Driver, Topic: Laser Driver Technology <i>Leily Kiani</i>	Working Group: PWFA + Beam Drivers, Topic: Staging and Beam drivers for PWFA linac <i>Doug Storey, John Farmer</i>	Working Group
15:00	51/1-102 - Kavli Auditorium, SLAC 14:00 - 15:30	48/1-112A/B - Redwood A/B, SLAC 14:00 - 15:30	48/1-112C/D - Redwood C/D, SLAC 14:00 - 15:30	48/2-224 - Madrone, SLAC 14:00 - 15:30
	Coffee 15:30 - 16:00			
16:00	Working Group: Integration, Topic: Global optimization framework <i>Carl Schroeder</i>	Working Group: BDS + MDI + Beam-Beam + Detector, Topic: Gamma - Gamma collider <i>Jens Osterhoff, Timothy Barlow</i>	Working Group: LWFA + PWFA + Sims, Topic: Simulations for very high energy stages <i>Alexander Knetsch</i>	Working Group
17:00	51/1-102 - Kavli Auditorium, SLAC 16:00 - 17:30	48/1-112A/B - Redwood A/B, SLAC 16:00 - 17:30	48/1-112C/D - Redwood C/D, SLAC 16:00 - 17:30	48/2-224 - Madrone, SLAC 16:00 - 17:30
18:00	Conference Dinner: Conference Dinner			

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09:00	Plenary: EuPRAXIA 09:00 - 09:30			
10:00	Working Group: PWFA/LWFA, Topic: Positron acceleration <i>Spencer Gessner, carlo benedetti</i>	Working Group: Beam drivers + Particle sources, Topic: Drivers and Sources <i>John Power, Siddharth Karkare</i>	Working Group: Detector + MDI, Topic: Detector Tasks and Strategy <i>Nicole Hartman, Simone Pagan Griso</i>	Working Group: BDS + Beam-Beam, Topic: BDS Challenges at 10 TeV <i>Thomas Grismayer, Vera Cilento</i>
11:00	51/1-102 - Kavli Auditorium, SLAC 09:30 - 11:00	48/1-112A/B - Redwood A/B, SLAC 09:30 - 11:00	48/1-112C/D - Redwood C/D, SLAC 09:30 - 11:00	51/3-305 - Kavli 3rd Floor, SLAC 09:30 - 11:00
12:00	Plenary: Red team/ Blue team 11:00 - 12:30			
13:00	Lunch 12:30 - 14:00			
14:00	Summary of Working Groups 14:00 - 15:30			
15:00	Coffee 15:30 - 16:00			
16:00	Discussion of the ESPP Input document 16:00 - 17:30			
17:00	Welcome Reception 16:00 - 17:30			

Details for Today: Morning Plenaries and Coffee in Kavli

Plenary in Kavli

Working Groups in B51 and B48

Tue 04/03 [Go back](#) | [Print](#)

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10:00	Collider Grand Challenges Jens Osterhoff			
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	Group Photo 51/1-102 - Kavli Auditorium, SLAC			
13:00	Lunch 51/1-102 - Kavli Auditorium, SLAC			
14:00	Working Group: LWFA + PWFA + Laser Driver + Sims, Topic: LWFA staging Dr Francesco Massimo	Working Group: Beam-Beam + MDI+ Detector + Physics, Topic: Physics with primary + beamstrahlung interactions Simon Knapen, Spencer Gessner	Working Group: SWFA + Beam Drivers, Topic: SWFA drivers and linac John Power, Xueying Lu	Working Group: Sources, Topic: Source brightness Siddharth Karkare
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18:00	Welcome Reception			



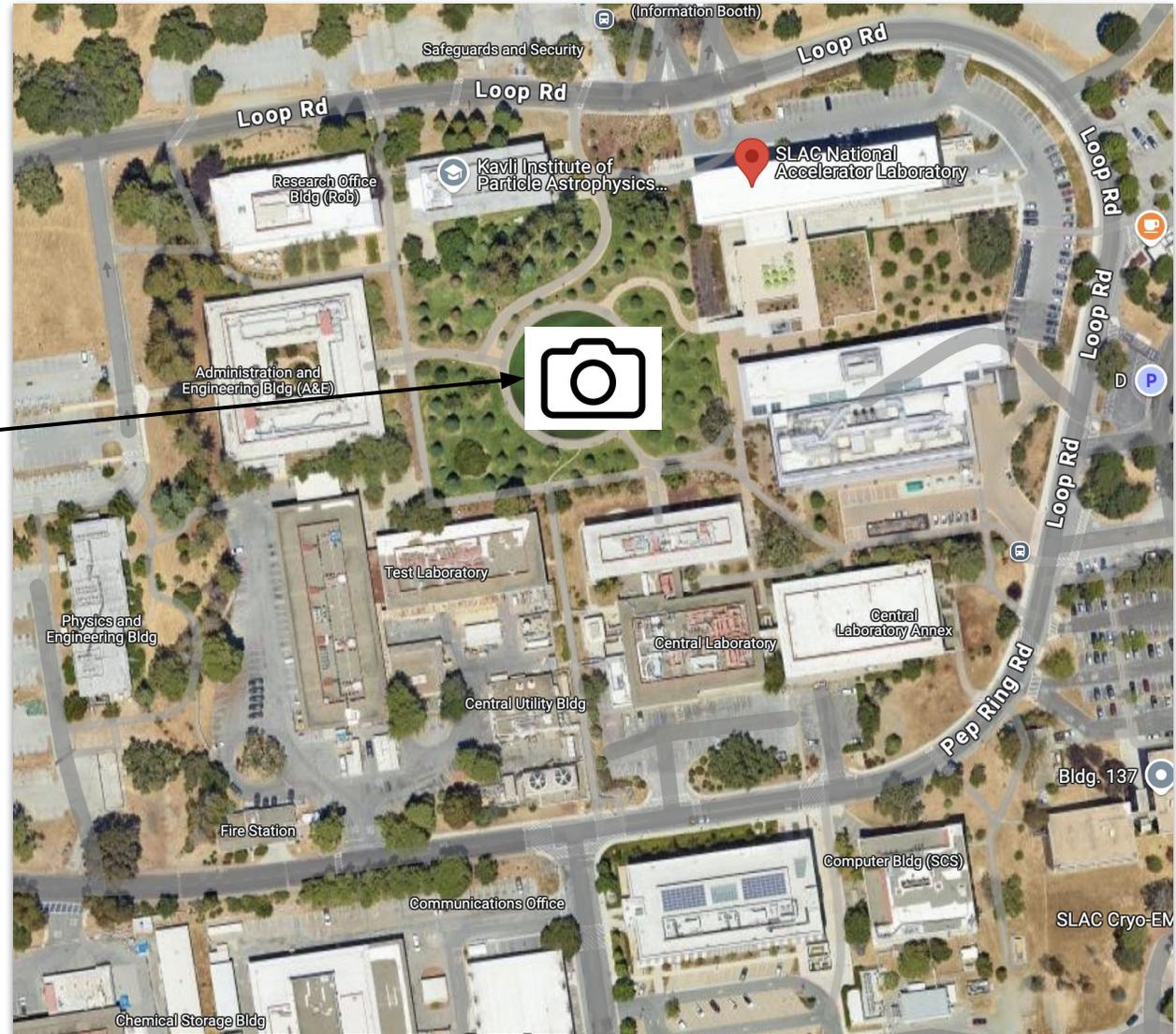
Details for Today: Group Photo on the Quad

Plenary in Kavli

Working Groups in B51 and B48

Tue 04/03 [Go back](#) | [Print](#)

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Details for Today: FACET Tour 12:15-1:15

Plenary in Kavli

Working Groups in B51 and B48

Tue 04/03 [Go back](#) | [Print](#)

08:00	Introduction <i>Spencer Gessner</i>			
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Details for Today: FACET Tour 12:15-1:15

Van will pick up and return at B53.

Back by 1:15. Still time for lunch.

Must wear close-toed shoes.

There slots available for tomorrow.
Use sign-up sheet.

First petawatt electron beam arrives, ready to rip apart matter and space

Ultra-high-power particle pulses could boost x-ray science and laboratory astrophysics

27 FEB 2025 • 5:05 PM ET • BY ADRIAN CHO



Tuesday tour
Leily Kiani
Keegan Downham
Muhammad Saeed
Oksana Chubenko
Simon Knapen
Weishuang Linda Xu
Kevin Langhoff
Angira Rastogi
Brigitte Cros
Pierluigi Campana
Christiane Scherb
John Farmer
Nicole Hartman
Sarah Schroeder
Vera Cilento
Joe Grames
Qianqian Su
Riccardo Pompili
Livio Verra
Lewis Boulton

An aerial satellite-style map of the SLAC National Accelerator Laboratory campus. The map shows various buildings and roads. A white van icon is placed on Loop Rd near the top of the map, indicating the pickup location. Other labeled buildings include the Kavli Institute of Particle Astrophysics, Central Laboratory, Central Laboratory Annex, Central Utility Bldg, Computer Bldg (SCS), Communications Office, Chemical Storage Bldg, and SLAC Cryo-EM. Roads shown include Loop Rd and Pep Ring Rd. A red location pin is also visible near the SLAC National Accelerator Laboratory label.

Details for Today: Pickup lunch outside of Kavli

Plenary in Kavli

Working Groups in B51 and B48

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18:00	Welcome Reception			



Instructions for Working Group Sessions

Each Working Group Session has one or more responsible persons (RPs).

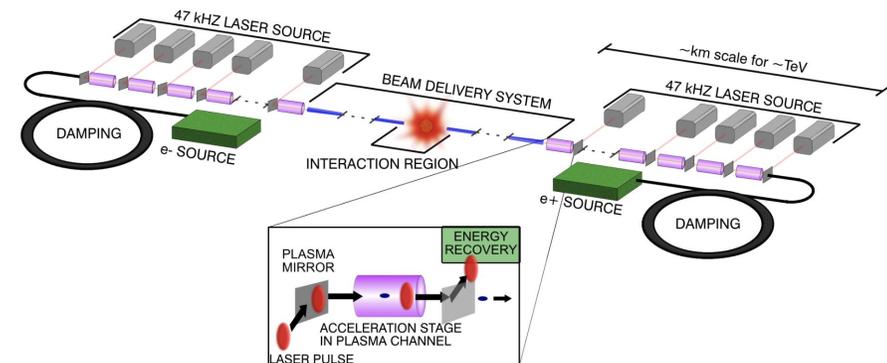
Responsibilities include:

- Get to room 5 min early and get on zoom.
- Setting discussion topics, please upload!
- Taking notes.
- Creating action items.
- Summary at end of workshop.

Some Working Group Sessions have contributed talks.

In general, we encourage contributed talks but want to leave plenty of space for discussion.

14:00	Working Group: LWFA + PWFA + Laser Driver + Sims, Topic: LWFA staging <i>Dr Francesco Massimo</i>	Working Group: Beam-Beam + MDI+ Detector + Physics, Topic: Physics with primary + beamstrahlung interactions <i>Simon Knapen, Spencer Gessner</i>	Working Group: SWFA + Beam Drivers, Topic: SWFA drivers and linac <i>John Power, Xueying Lu</i>	Working Group: Sources, Topic: Source brightness <i>Siddharth Karkare</i>
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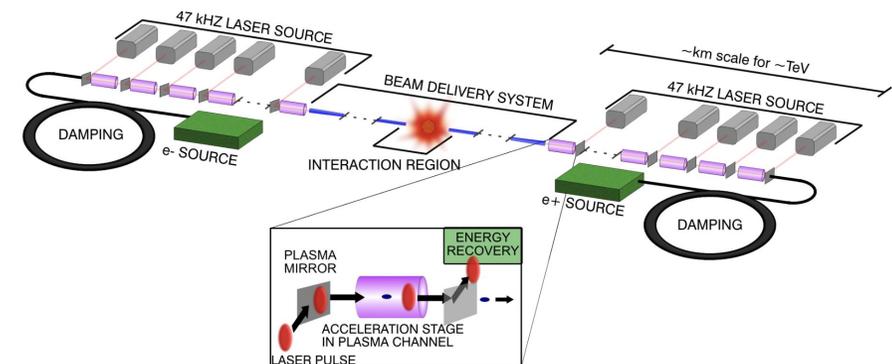


Details for Today: Working Groups, First Session at 14:00

Working Groups:

- System integration and optimization
- Beam sources (incl. damping rings)
- Drivers
 - Laser
 - Beams - SWFA
 - Beams - PWFA
- Linacs
 - LWFA
 - SWFA
 - PWFA
- Beam delivery system
- Beam-beam interactions
- Beam diagnostics
- Machine-detector interface
- HEP detector
- HEP physics case
- Environmental impact
- Simulations/computing/AI

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16:00 - 17:30		16:00 - 17:30	16:00 - 17:30	16:00 - 17:30



Simulations WG members should spread out

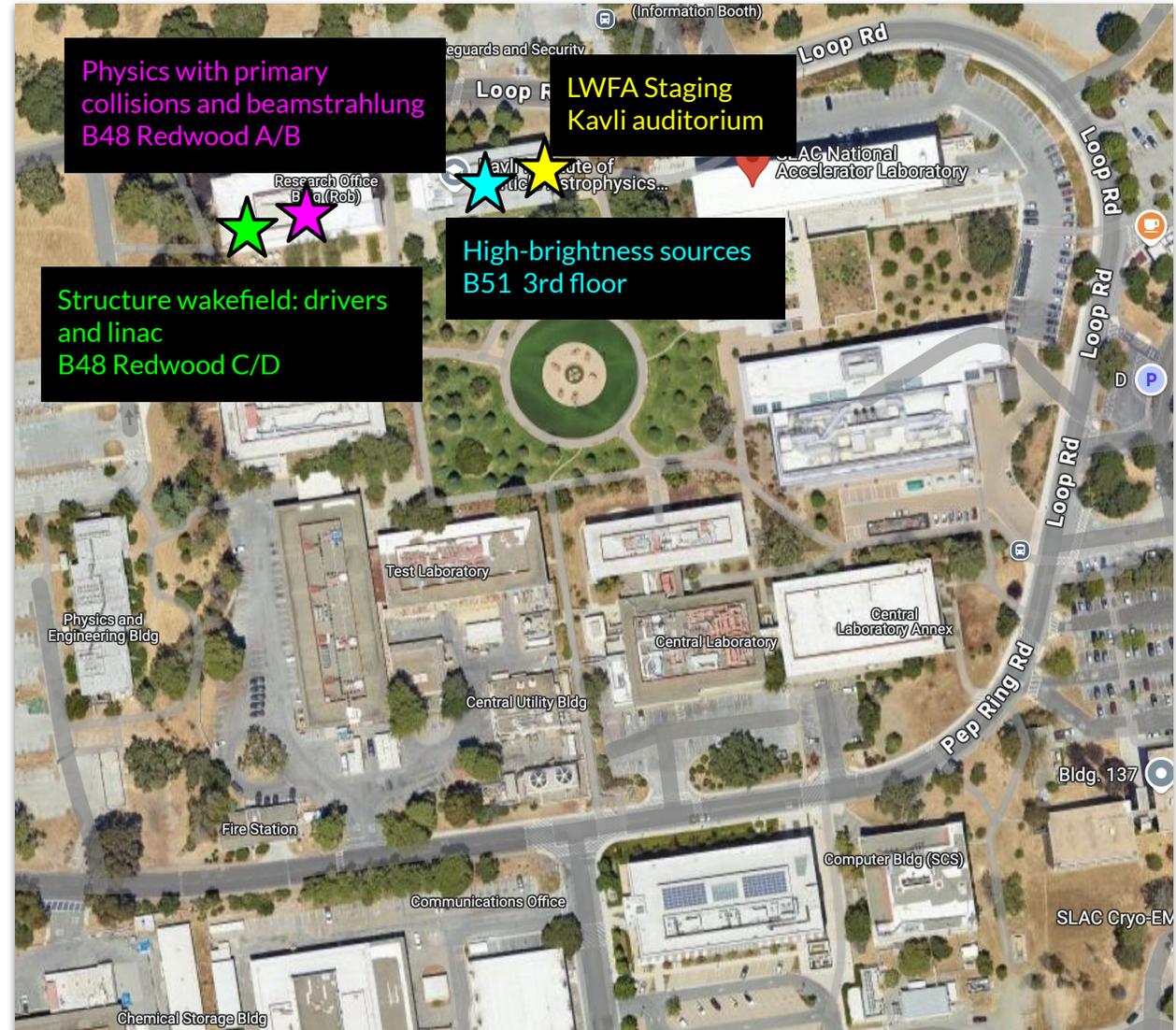
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Plenary in Kavli

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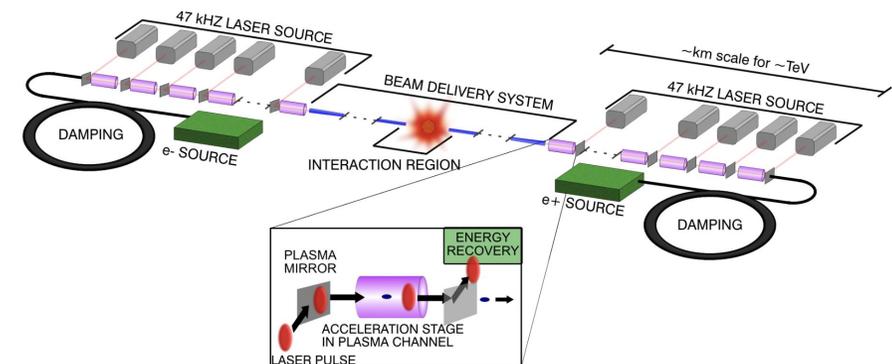
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 - Laser
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- Linacs
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Coffee 51/1-102 - Kavli Auditorium, SLAC 15:30 - 16:00				
16:00	Working Group: LWFA + PWFA + Sources + Drivers + Sims, Topic: Comparing electron and proton drivers <i>Livio Verra</i>	Working Group: Physics + Detector, Topic: Physics Benchmarks discussion <i>Nicole Hartman, Simon Knapen</i>	Working Group: Beam-beam + Sims, Topic: Beam-Beam simulation tasks <i>Thomas Grismayer</i>	Working Group
17:00	51/1-102 - Kavli Auditorium, SLAC 16:00 - 17:30	48/1-112A/B - Redwood A/B, SLAC 16:00 - 17:30	48/1-112C/D - Redwood C/D, SLAC 16:00 - 17:30	51/3-305 - Kavli 3rd Floor, SLAC 16:00 - 17:30



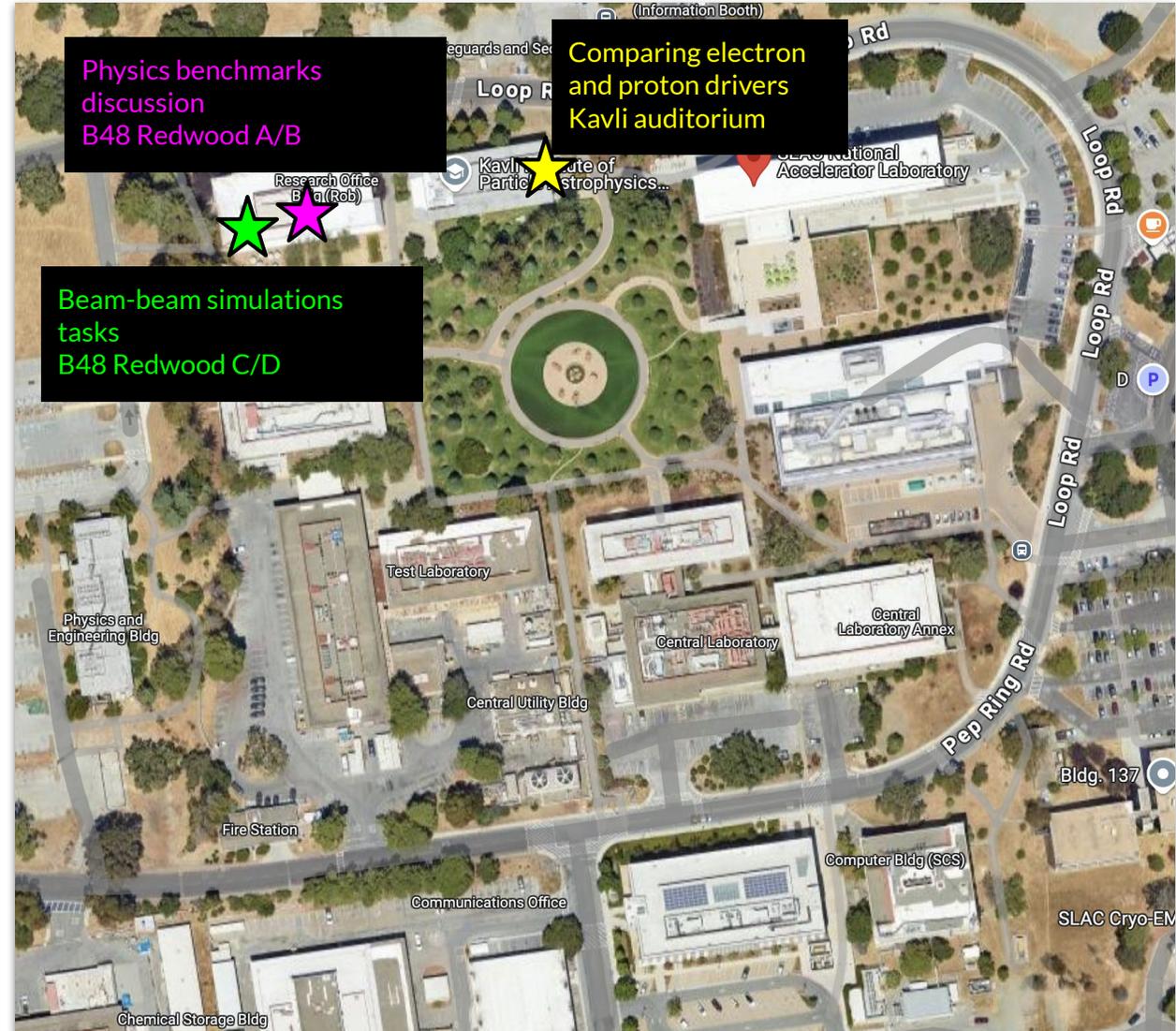
Details for Today: Working Groups, Second Session at 16:00

Plenary in Kavli

Working Groups in B51 and B48

Tue 04/03 [Go back](#) | [Print](#)

08:00	Introduction Spencer Gessner			
09:00	51/1-102 - Kavli Auditorium, SLAC 08:30 - 09:30			
	Coffee 09:30 - 10:00			
10:00	51/1-102 - Kavli Auditorium, SLAC			
	Collider Grand Challenges Jens Osterhoff			
11:00	51/1-102 - Kavli Auditorium, SLAC 10:00 - 11:00			
	Collider Grand Challenges Jens Osterhoff			
12:00	51/1-102 - Kavli Auditorium, SLAC 11:00 - 12:00			
	Group Photo 12:00 - 12:30			
13:00	51/1-102 - Kavli Auditorium, SLAC 12:30 - 14:00			
	Lunch			
14:00	Working Group: LWFA + PWFA + Laser Driver + Sims, Topic: LWFA staging <i>Dr Francesco Massimo</i>	Working Group: Beam-Beam + MDI+ Detector + Physics, Topic: Physics with primary + beamstrahlung interactions <i>Simon Knapen, Spencer Gessner</i>	Working Group: SWFA + Beam Drivers, Topic: SWFA drivers and linac <i>John Power, Xueying Lu</i>	Working Group: Sources, Topic: Source brightness <i>Siddharth Karkare</i>
15:00	51/1-102 - Kavli Auditorium, SLAC 14:00 - 15:30	48/1-112A/B - Redwood A/B, SLAC 14:00 - 15:30	48/1-112C/D - Redwood C/D, SLAC 14:00 - 15:30	51/3-305 - Kavli 3rd Floor, SLAC 14:00 - 15:30
	Coffee 15:30 - 16:00			
16:00	Working Group: LWFA + PWFA + Sources + Drivers + Sims, Topic: Comparing electron and proton drivers <i>Livio Verra</i>	Working Group: Physics + Detector, Topic: Physics Benchmarks discussion <i>Nicole Hartman, Simon Knapen</i>	Working Group: Beam-beam + Sims, Topic: Beam-Beam simulation tasks <i>Thomas Grismayer</i>	Working Group
17:00	51/1-102 - Kavli Auditorium, SLAC 16:00 - 17:30	48/1-112A/B - Redwood A/B, SLAC 16:00 - 17:30	48/1-112C/D - Redwood C/D, SLAC 16:00 - 17:30	51/3-305 - Kavli 3rd Floor, SLAC 16:00 - 17:30
18:00	Welcome Reception			



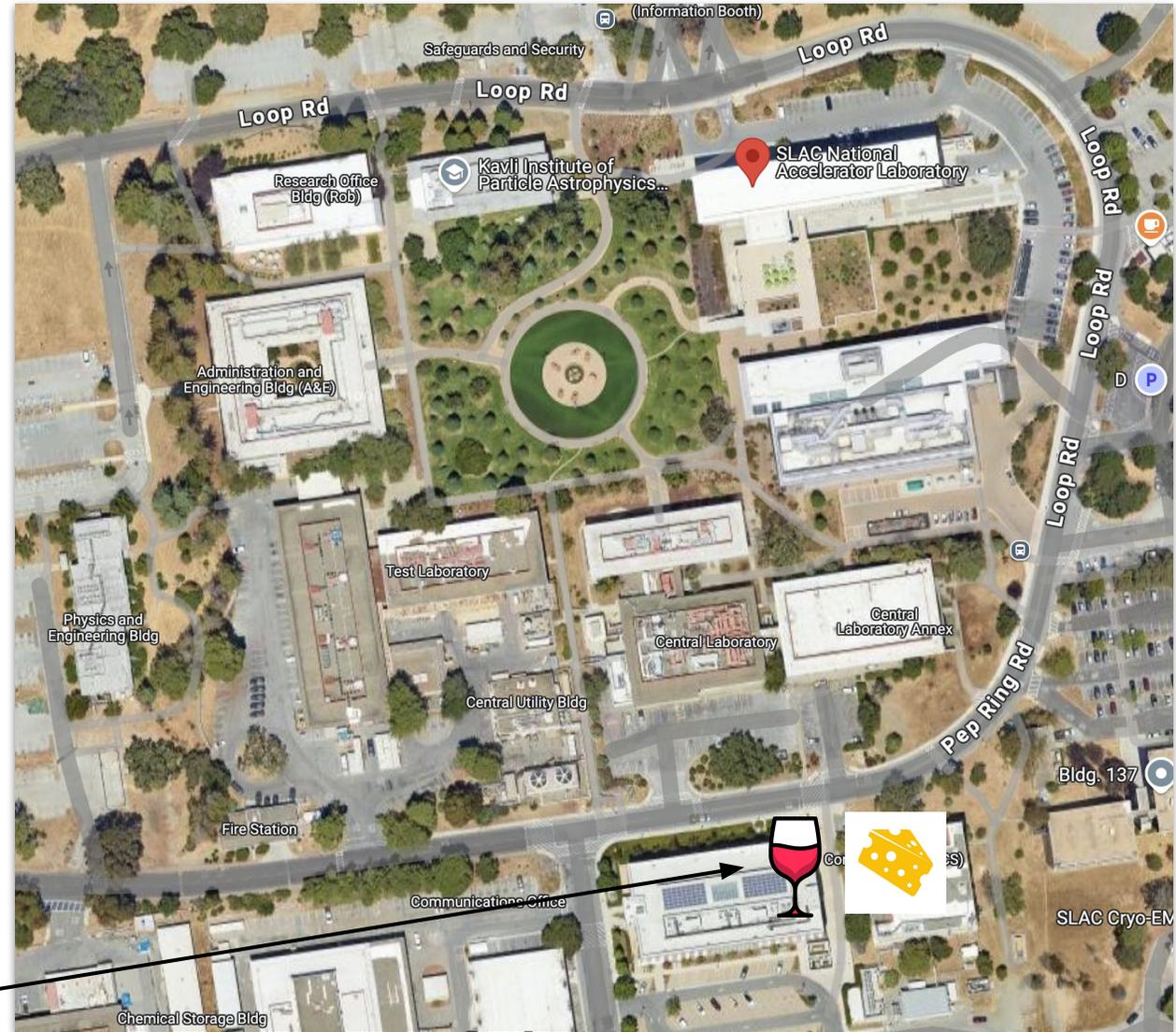
Details for Today: Reception at B52 Lobby at 18:00

Plenary in Kavli

Working Groups in B51 and B48

Tue 04/03 [Go back](#) | [Print](#)

08:00	Introduction Spencer Gessner			
09:00	51/1-102 - Kavli Auditorium, SLAC 08:30 - 09:30			
	Coffee 09:30 - 10:00			
10:00	51/1-102 - Kavli Auditorium, SLAC			
	Collider Grand Challenges Jens Osterhoff			
11:00	51/1-102 - Kavli Auditorium, SLAC 10:00 - 11:00			
	Collider Grand Challenges Jens Osterhoff			
12:00	51/1-102 - Kavli Auditorium, SLAC 11:00 - 12:00			
	Group Photo 12:00 - 12:30			
13:00	51/1-102 - Kavli Auditorium, SLAC 12:00 - 12:30			
	Lunch			
14:00	51/1-102 - Kavli Auditorium, SLAC 12:30 - 14:00			
	Working Group: LWFA + PWFA + Laser Driver + Sims, Topic: LWFA staging <i>Dr Francesco Massimo</i>	Working Group: Beam-Beam + MDI+ Detector + Physics, Topic: Physics with primary + beamstrahlung interactions <i>Simon Knapen, Spencer Gessner</i>	Working Group: SWFA + Beam Drivers, Topic: SWFA drivers and linac <i>John Power, Xueying Lu</i>	Working Group: Sources, Topic: Source brightness <i>Siddharth Karkare</i>
15:00	51/1-102 - Kavli Auditorium, SLAC 14:00 - 15:30	48/1-112A/B - Redwood A/B, SLAC 14:00 - 15:30	48/1-112C/D - Redwood C/D, SLAC 14:00 - 15:30	51/3-305 - Kavli 3rd Floor, SLAC 14:00 - 15:30
	Coffee 15:30 - 16:00			
16:00	51/1-102 - Kavli Auditorium, SLAC 16:00 - 17:30	48/1-112A/B - Redwood A/B, SLAC 16:00 - 17:30	48/1-112C/D - Redwood C/D, SLAC 16:00 - 17:30	51/3-305 - Kavli 3rd Floor, SLAC 16:00 - 17:30
17:00	Working Group: LWFA + PWFA + Sources + Drivers + Sims, Topic: Comparing electron and proton drivers <i>Livio Verra</i>	Working Group: Physics + Detector, Topic: Physics Benchmarks discussion <i>Nicole Hartman, Simon Knapen</i>	Working Group: Beam-beam + Sims, Topic: Beam-Beam simulation tasks <i>Thomas Grismayer</i>	Working Group
18:00	Welcome Reception			



Red Team/Blue Team

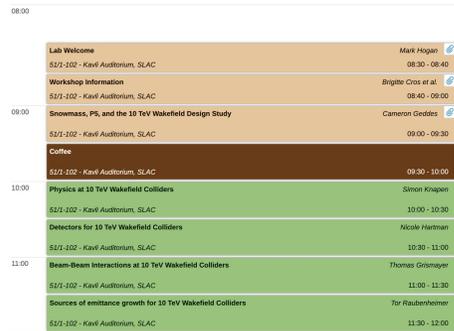
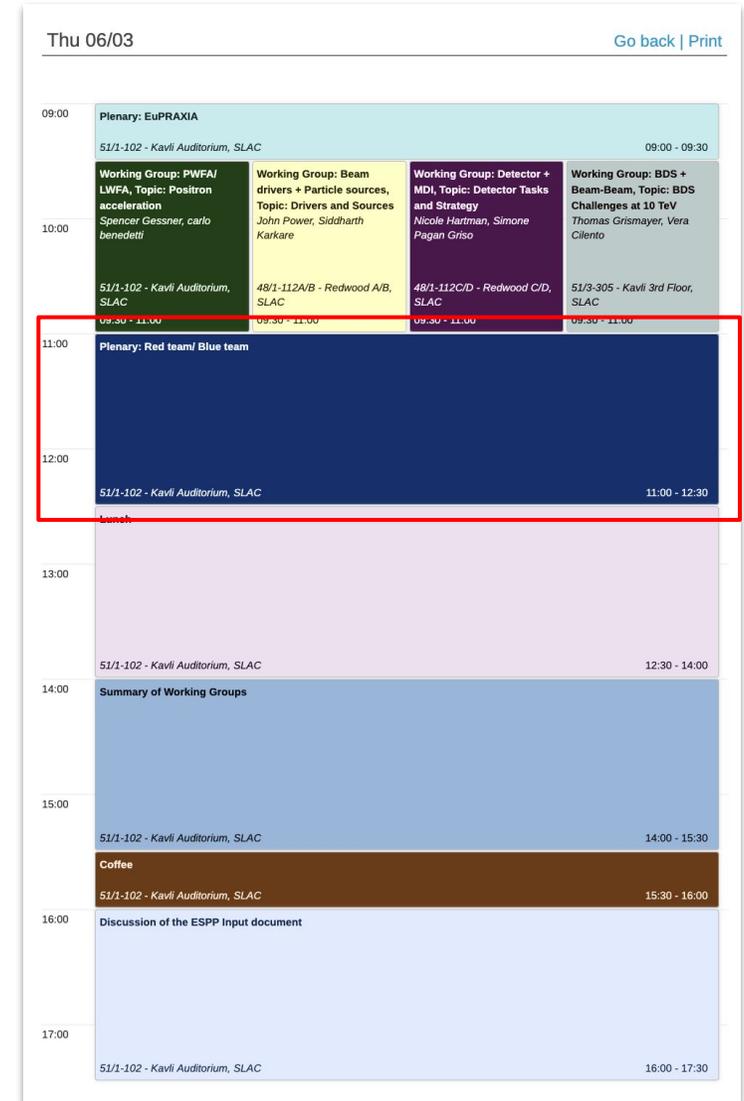
We are planning a Red Team/Blue Team panel discussion for Thursday.

4-5 panelists on each team

Red Team will highlight challenges for future Wakefield Colliders.

Blue Team will highlight solutions (or paths to solutions).

Panelists and discussion points will be announced by end of day.



Morning Plenaries

08:00

Lab Welcome		Mark Hogan
51/1-102 - Kavli Auditorium, SLAC		08:30 - 08:40
Workshop Information		Brigitte Cros et al.
51/1-102 - Kavli Auditorium, SLAC		08:40 - 09:00
09:00	Snowmass, P5, and the 10 TeV Wakefield Design Study	Cameron Geddes
51/1-102 - Kavli Auditorium, SLAC		09:00 - 09:30
Coffee		
51/1-102 - Kavli Auditorium, SLAC		09:30 - 10:00
10:00	Physics at 10 TeV Wakefield Colliders	Simon Knapen
51/1-102 - Kavli Auditorium, SLAC		10:00 - 10:30
Detectors for 10 TeV Wakefield Colliders		Nicole Hartman
51/1-102 - Kavli Auditorium, SLAC		10:30 - 11:00
11:00	Beam-Beam Interactions at 10 TeV Wakefield Colliders	Thomas Grismayer
51/1-102 - Kavli Auditorium, SLAC		11:00 - 11:30
Sources of emittance growth for 10 TeV Wakefield Colliders		Tor Raubenheimer
51/1-102 - Kavli Auditorium, SLAC		11:30 - 12:00

