
Stanford Graduate Student Orientation 2025 SLAC Session - Introduction

Ariel Schwartzman

Natalia Toro, PPA Faculty Chair

Philip Bucksbaum, Photon Science Faculty Chair

Alberto Salleo, Chief Research Officer

The Stanford Physics Community

Humanities & Sciences

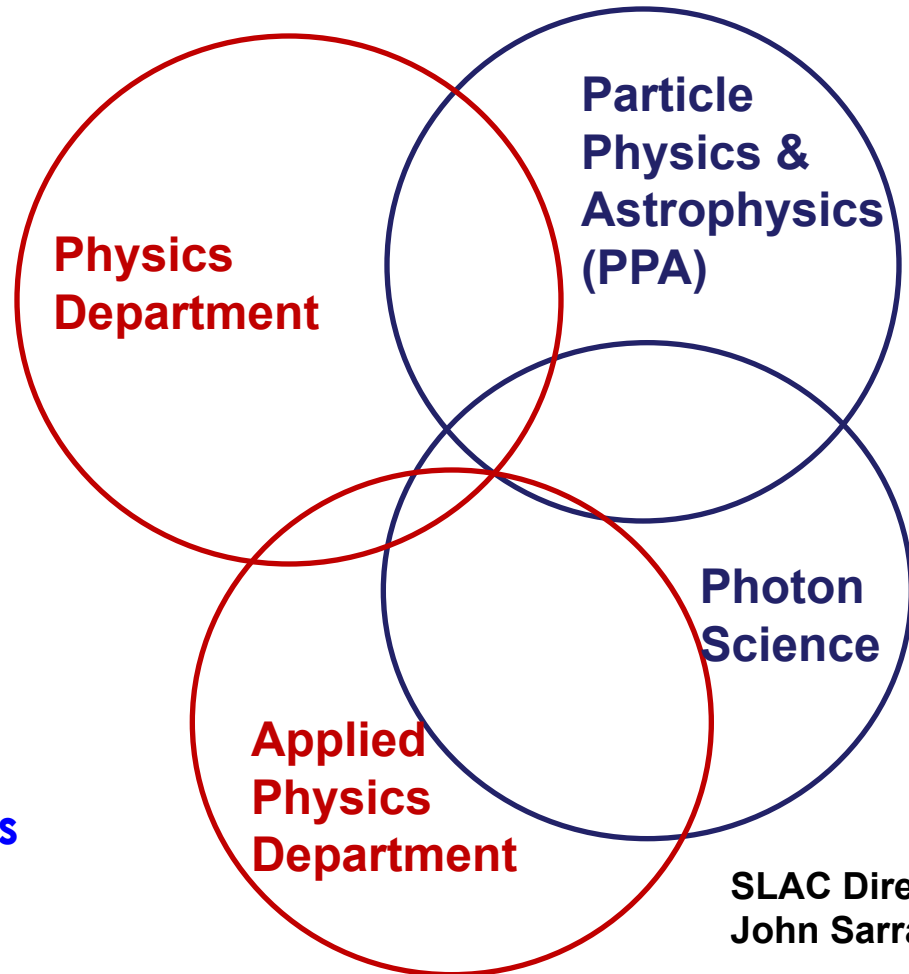
SLAC

A complex structure,
but also means more
opportunities

You can choose Faculty
advisors from 4 departments

SLAC as a National Lab
and an academic
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Stanford/SLAC

1st year rotations may help
you explore these connections



**SLAC Director:
John Sarrao**

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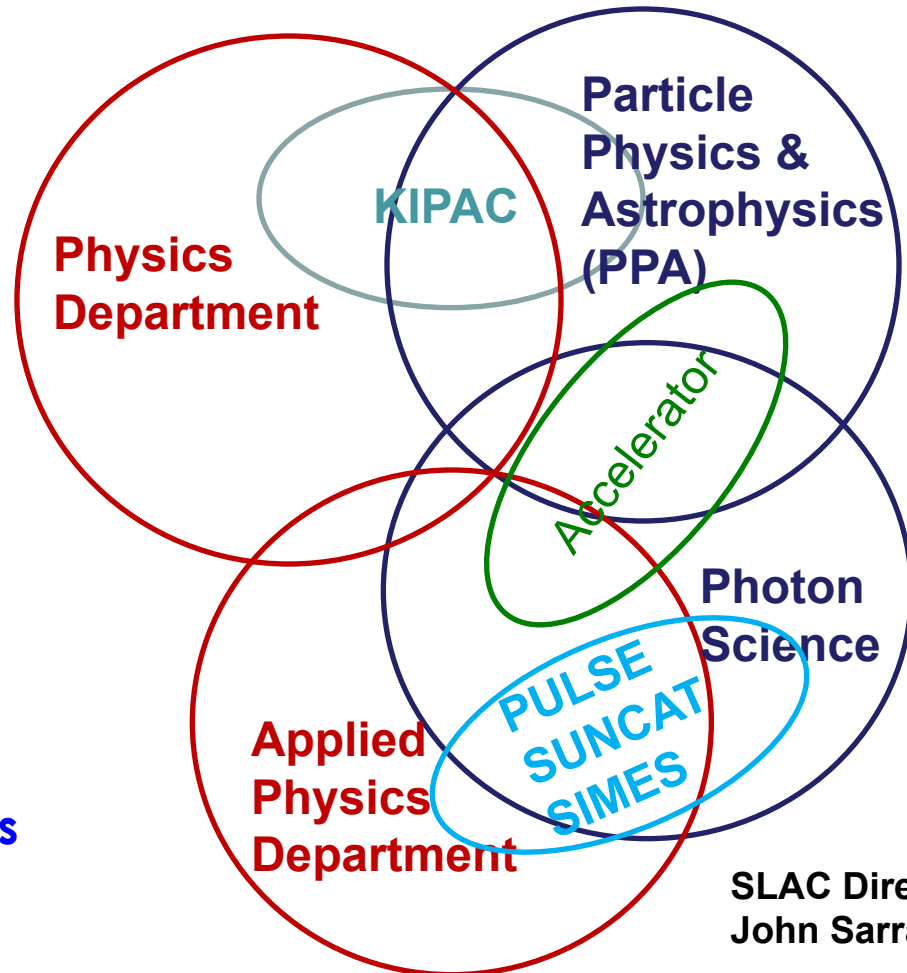
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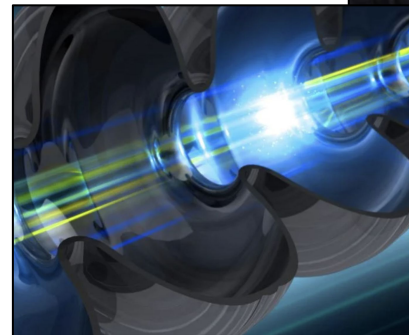
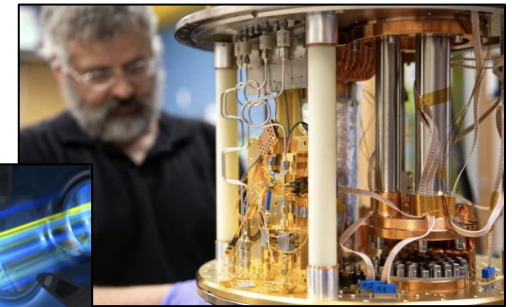
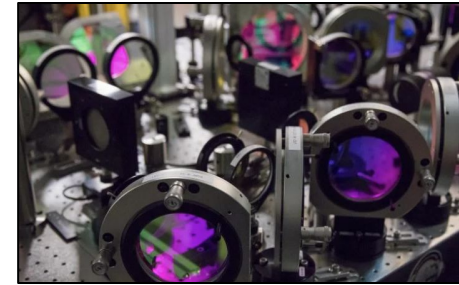
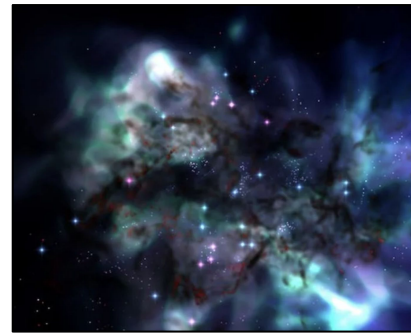


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Research at SLAC

Diverse research activities at SLAC are summarized at <https://www6.slac.stanford.edu/research>

- Elementary particle physics
- Astrophysics and cosmology
- Accelerator Research
- X-ray and Ultrafast Science
- Environmental Science
- Materials, Chemistry & Energy Sciences
- Matter in Extreme Conditions
- Quantum Information Science
- Machine Learning
- Scientific Computing



Resources at SLAC

- **The vast resources at a National Lab is for you to take advantage of for your own education**
 - Accelerator facilities
 - Staff scientists with broad range of expertise
 - Computing and software expertise
 - Engineering expertise
 - Schools, Workshops, Colloquia, Seminars
- Marguerite shuttles

SLAC Line operates 7:00am~8:20pm between campus and SLAC every 40 min on weekdays.
Line S has peak hour services every 30 min between campus, Palo Alto CalTrain station and SLAC.



SLAC Contacts and Information

- **SLAC Particle Physics and Astrophysics Faculty:**

- Chair: Prof. Natalia Toro
- Graduate Student Program: Prof. Ariel Schwartzman
- Graduate Student Support: Adrienne Higashi
- PPA faculty list:

<https://faculty.slac.stanford.edu/particle-physics-astrophysics-faculty>

- **SLAC Photon Science faculty:**

- Chair: Prof. Philip Bucksbaum
- PS faculty list:

<https://faculty.slac.stanford.edu/photon-science-faculty>

SLAC Orientation Program

Time	Program/Presentation	Speaker
9:30 – 9:40	Introduction	A. Schwartzman
9:40 – 10:00	Particle Physics and Astrophysics	H. Tanaka
10:00 – 10:20	Accelerator Physics	E. Nanni
10:20 – 10:40	Theory at SLAC	A. Friedland
10:40--11:00	Photon Science	M. Kling

<https://indico.slac.stanford.edu/event/10071/>

11:00 – Noon:	Refreshments, poster session and informal discussions in main lobby
11:30 – Noon:	Lunch pickup in lobby
11:30 – 13:00:	Poster sessions continue
13:00 – 14:00	Office hours: ATLAS, HPS/LDMX, DUNE, LZ, LCLS, LSST, CMB, QIS
14:00 - 16:00	Lab tours

[Link to schedule](#)

13:00-14:00	LCLS Experiment al Hall tour (Diling Zhu, Sandra Mous). ~ 1.5 hours, meet at main lobby, Bldg 53	ATLAS HL-Lab tour joint with CMB (B84, B33) (Su Dong, Caterina Vernieri, Prajita Bhattarai)	CMB Lab Tour to the Millikelvin Facility (Shawn Henderson) (meet outside B53 lobby to walk to B33)	SLAC Millikelvin Facility (Kurinsky, Stifter) Tour joint with CMB, Axion Lab, SLab/Shannon Harvey, and ATLAS (meet outside B53 lobby to walk to B33)		DUNE Group (Convery, Tanaka) Bldg 84, B198	HPS and LDMX (B84, B200) Tim Nelson	LZ/XLZD office hours (Akerib, Shutt) in Kavli 223	LSST/Rubin group (Roodman) in Kavli 210	
	Accelerator Physics + Machine Learning Office Hours (Auralee Edelen and ARD ML group, Bldg 52, Room	ATLAS group meeting (Julia Gonski, Caterina Vernieri), B84 Group C (B259)	CMB Coffee and office hours (Zeesh Ahmed, Manu Schaan, Shawn Henderson) Kavli 222,	DMQIS/CDMS office hours (Kurinsky, Stifter) in Kavli 311-313, 2-5pm	Theory Group welcome (Bldg 48, room 224)	DUNE Group Office Hours (Tanaka) Bldg 84, B228	HPS and LDMX (B84, B200) Tim Nelson	LZ/XLZD lab tour - IR2 (Akerib, Shutt), meet at Kavli 223/	LSST/Rubin group (Roodman) in Kavli 210 (3pm-4pm)	Axion Lab SLAC Millikelvin Facility (Bartram -- tour joint with CMB, DMQIS, SLab/Shannon Harvey)