
Stanford Graduate Student Orientation 2024 SLAC Session - Introduction

Ariel Schwartzman

Lance Dixon, Interim PPA Faculty Chair

Philip Bucksbaum, Photon Science Faculty Chair

Steve Eglash, Interim Chief Research Officer

The Stanford Physics Community

Humanities & Sciences

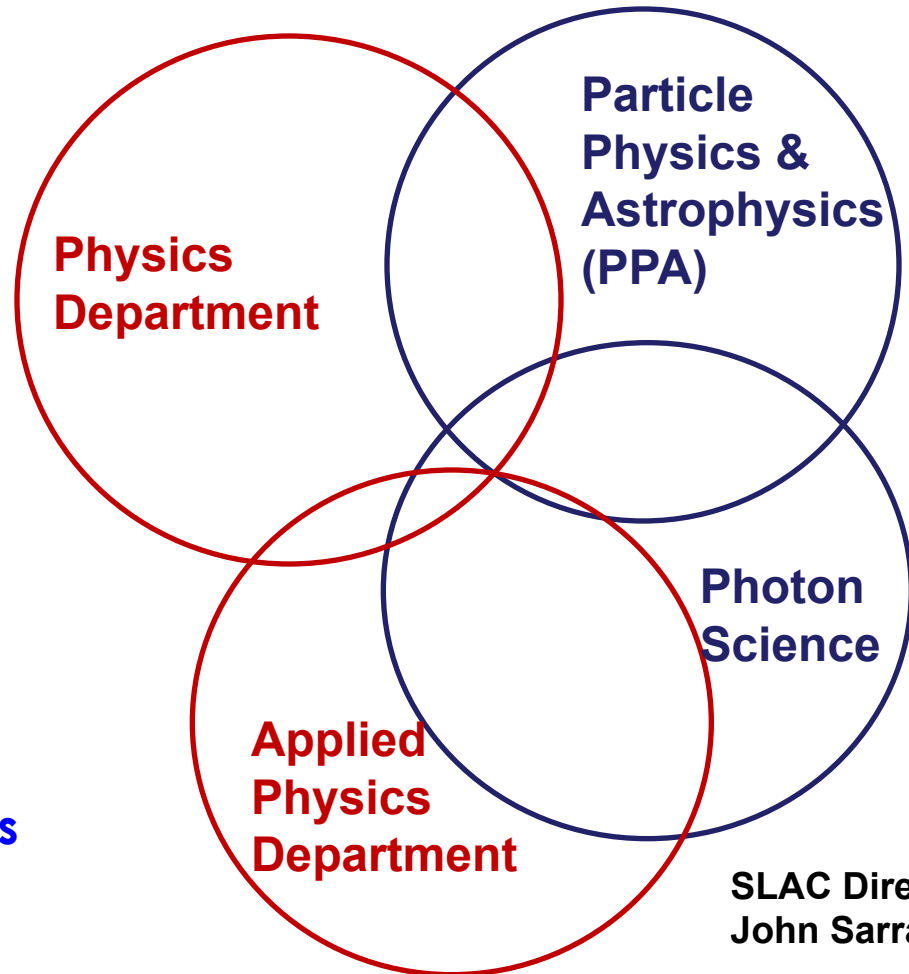
SLAC

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
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SLAC Director:
John Sarrao

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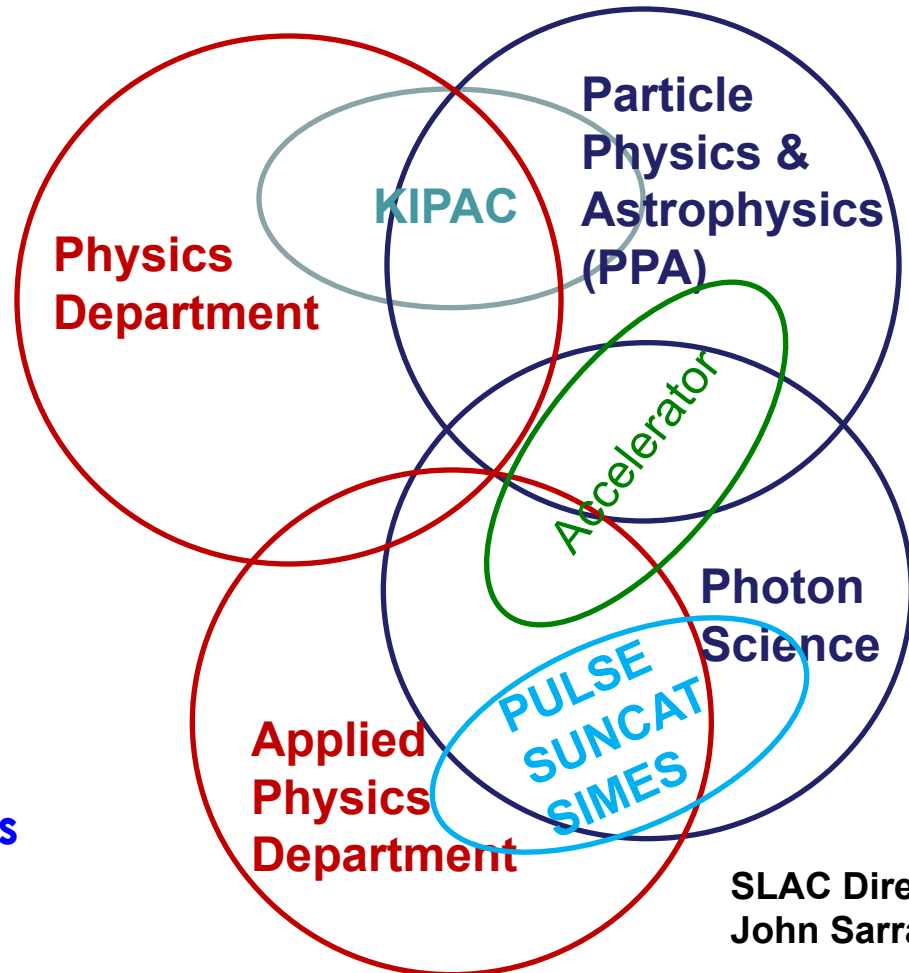
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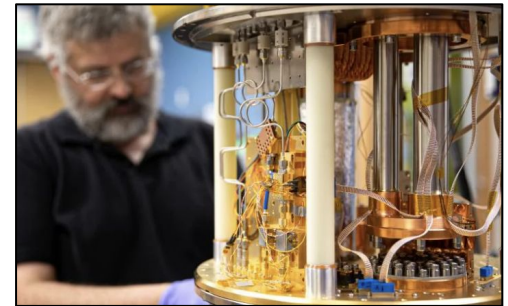
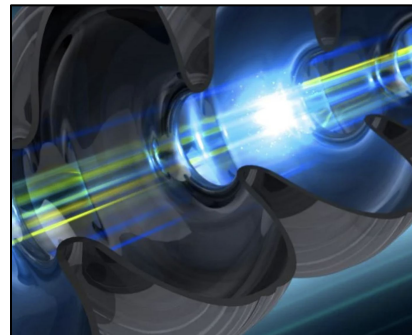
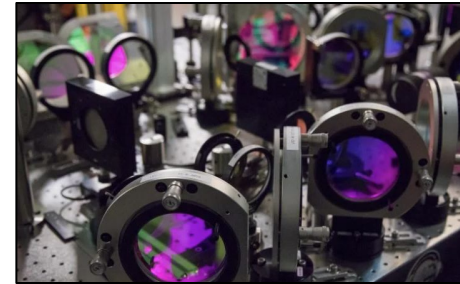
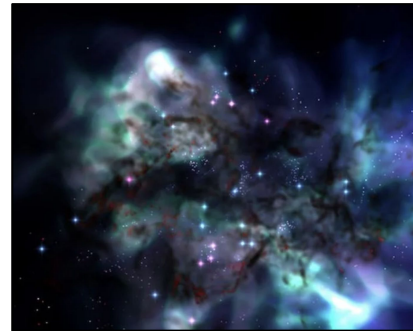


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Research at SLAC

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

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



Resources at SLAC

- **The vast resources at 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 between campus, Palo Alto CalTrain station and SLAC.



SLAC Contacts and Information

- **SLAC PPA faculty:**

- Interim Chair: Prof. Lance Dixon
- 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	Accelerator Physics	S. Gessner
10:00 – 10:20	Particle Physics and Astrophysics	H. Tanaka
10:20 – 10:40	Theory at SLAC	B. Mistlberger
10:40--11:00	Photon Science	B. Ofori-Okai

<https://indico.slac.stanford.edu/event/9136/>

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, nEXO, LZ, LCLS, FACET, CMB, QIS
14:00 - 16:00	Lab tours

[Link to schedule](#)

13:00-14:00	LCLS Experiment at Hall tour (Diling Zhu, Sandra Mous). ~ 1.5 hours, meet at main lobby, Bldg 53	ATLAS group meeting (B84) (Julia Gonski)	FACET office hours (Brendan O'Shea, Mark Hogan) (B52)	CMB Lab Tour to the Millikelvin Facility (Shawn Henderson, Kirit Karkare) (meet outside B53 lobby to walk to B33)	DMQIS/CDMS Lab Tour (Joint with CMB)	nEXO Lab tour (B84) (Peter Rowson)	DUNE Group (Convery, Tanaka) Bldg 84, B171	HPS and LDMX (B84, B200) Tim Nelson	LZ group office hours (Akerib, Shutt, Monzani) in Kavli 223
14:00-16:00		ATLAS ITk lab tour (B84, B33) (Su Dong, Prajita Bhattarai)	FACET Lab tour (Brendan O'Shea, Mark Hogan)	CMB Coffee and office hours (Shawn Henderson, Kirit Karkare) Kavli 222	DMQIS/CDMS Coffee and office hours (Kurinsky, Stifter) Kavli 311-313	nEXO Lab tour (B84) (Peter Rowson)	DUNE Group (Convery, Tanaka) Bldg 84, B171	HPS and LDMX (B84, B200) Tim Nelson	LZ/XLZD lab tour - IR2 (Akerib, Shutt), meet at Kavli 223