
Stanford Graduate Student Orientation 2023

SLAC Session - Introduction

Ariel Schwartzman

Philip Schuster, PPA Faculty Chair

Philip Bucksbaum, Photon Science Faculty Chair

Steve Eglash, Interim Chief Research Officer

The Stanford Physics Community

Humanities & Sciences

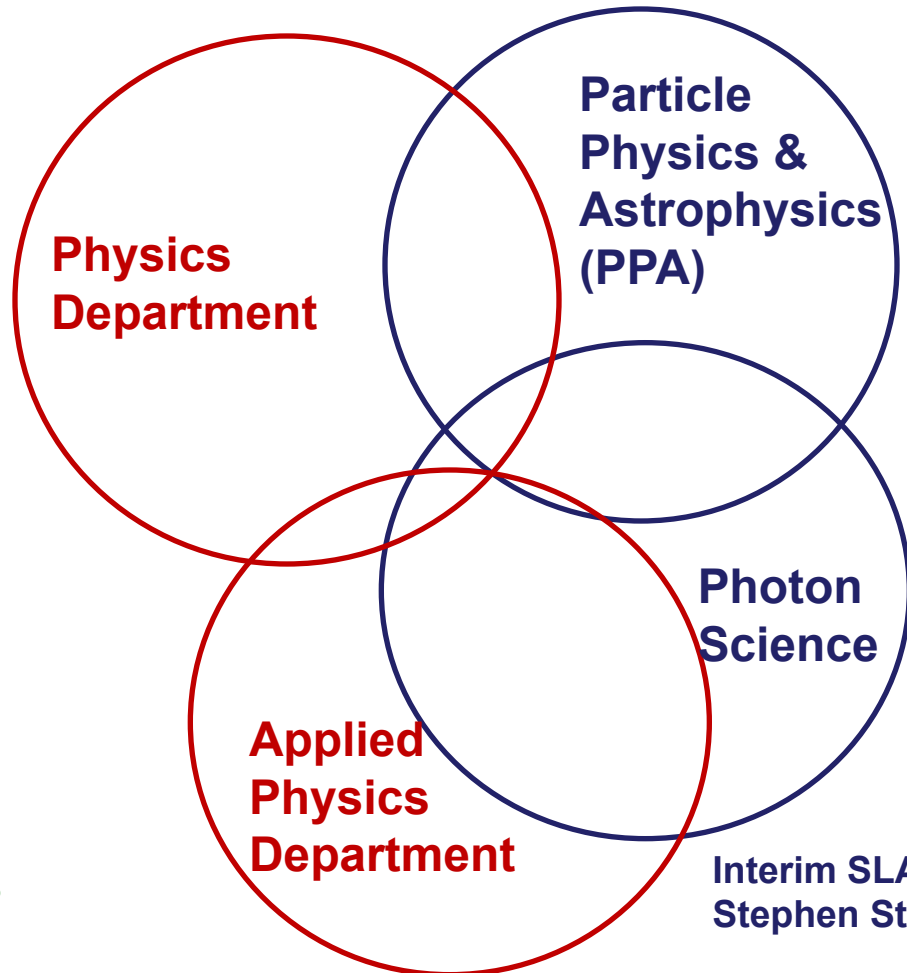
SLAC

A complex structure,
but also means
more opportunities.

You can choose faculty
advisors from
4 departments

SLAC as a national lab
and an academic
unit is unique to
Stanford/SLAC

1st year rotations may help
you explore these connections



Interim SLAC Director:
Stephen Streiffer

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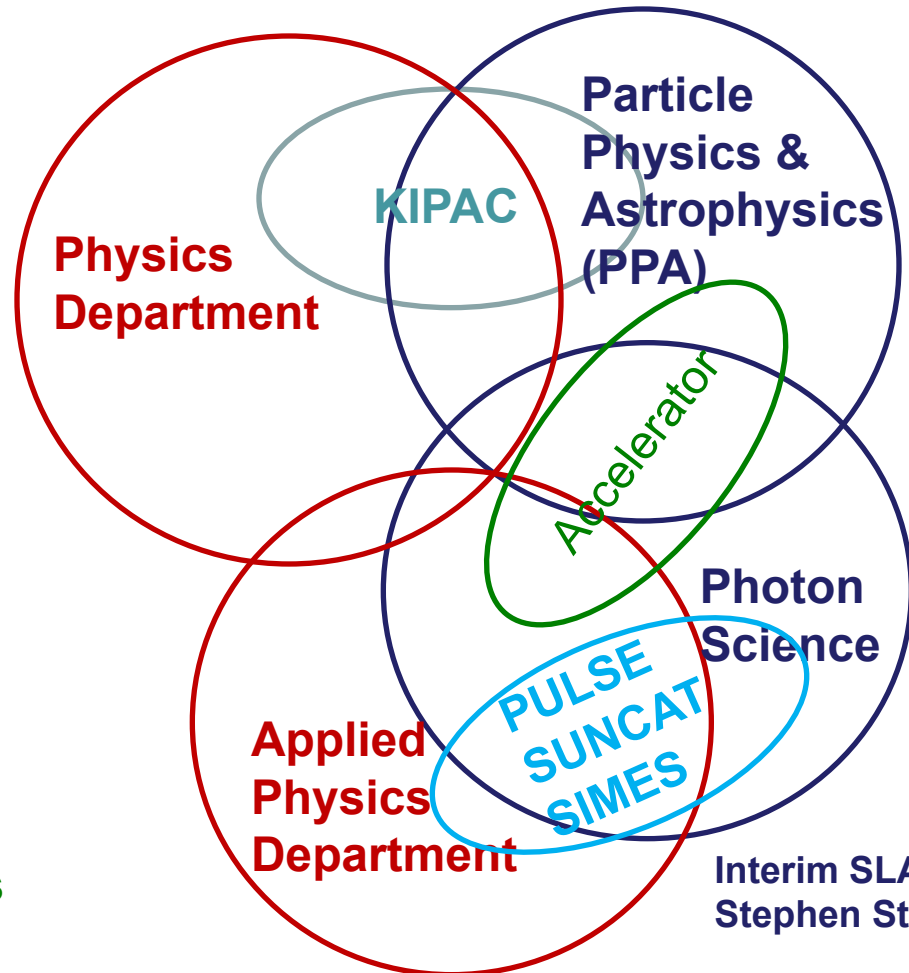
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Research at SLAC

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 40min on weekdays.
Line S has peak hour services between campus, Palo Alto CalTrain station and SLAC.



SLAC Contacts and Information

- SLAC PPA faculty:

- Chair: Prof. Philip Schuster
- 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
9:00--9:10	Introduction	A. Schwartzman
9:10--9:30	Accelerator Physics	A. Marinelli
9:30--9:50	Particle Physics and Astrophysics	H. Tanaka
9:50--10:10	Theory at SLAC	A. Friedland
10:10--10:30	Photon Science	M. Kling

<https://indico.slac.stanford.edu/event/8406/>

10:30 - Noon: **Refreshments, Poster Session and informal discussions**

Noon- 1:00 pm: **Lunch and Poster session**

1:00 – 5:00 pm: [Lab Tours and Research Discussions](#)

1:00 – 5:00 pm: [Faculty Office Hours](#)

1:00 – 2:00 pm: **Meet the SLAC Theory Group fo Cake**

1:00 – 2:30 pm: **FACET-II Experimental Area**

1:00 – 2:30 pm: **LCLS Tour**

1:00 – 2:30 pm: **Particle Physics, Cosmology, and Quantum Experiments: CMB, CDMS, ADMX, DMRadio, ATLAS, LZ, and LSST Labs**