Outline

• State of the Department
• 2017-18: Year in Review
  – Faculty News, Faculty Awards
  – New Appointments & Staff News
  – New Postdocs and Visitors
  – New Graduate Students
• 2018-19: A Look Ahead
State of the Department

By the numbers, in 2017-18

- 37 graduate and 103 undergraduate students completed their degrees
- There were 344 undergraduate declared majors, 230 intended majors, and 260 graduate students

Our professional ranks include

- 63 active faculty members
- 2 active Nobel Laureates
- 37 emeritus faculty
- 23 members of the National Academy of Science
- 41 staff members.
2017-18
Year in Review
New Faculty

Michael Zaletel
Asst. Professor
Condensed Matter Theory
Faculty Promotions

James Analytis
*to Associate Professor*

Joseph Orenstein
*to Professor Above Scale*

Kam-Biu Luk
*to Professor Above Scale*
And my first year: How did it go?
And my first year: How did it go?

(but still no tweet)
Faculty Retirements

Roger Falcone: 1983-2017
Emeritus Professor of Physics
Professor of the Graduate School
Fall 2017
Faculty Retirements

Robert Littlejohn: 1983-2018
Emeritus Professor of Physics
Spring 2018
Faculty Awards 2017-18

Raphael Bousso
Simons Fellow

Marvin Cohen (Emeritus)
Benjamin Franklin Medal in Physics, 2017

William Frazer (Emeritus)
Presidential Commendation from the American University of Armenia to William R. Frazer, “In recognition of his decisive role in establishing the American University of Armenia”

Hernan Garcia
NIH Director's New Innovator Award
NSF Career Award
Hellman Fellowship

Dan Kasen
American Physical Society, Fellow

Edgar Knobloch
Honorary Doctorate, Universidad Politecnica de Madrid

Steve Louie
Kodosky Lectureship, Rensselaer Polytechnic Institute, 2018

Dan McKinsey
American Physical Society, Fellow

Hitoshi Murayama
Humboldt Foundation Research Award

Yasunori Nomura
American Physical Society, Fellow
<table>
<thead>
<tr>
<th>Name</th>
<th>Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramamoorthy Ramesh</td>
<td>2018 IUPAP Magnetism Prize and Neel Medal, MRS Fred Kavli Distinguished Lectureship in Materials Science, 2018, Lee Hsun Lecture Award, Institute of Metals Research, Chinese Academy of Sciences, 2018, S.N. Bose Distinguished Lectureship, Saha Institute, 2018, Van Vlack Lectureship, University of Michigan, 2017</td>
</tr>
<tr>
<td>Dan Stamper-Kurn</td>
<td>Miller Professorship, Distinguished Scholar of the Max Planck Institute of Quantum Optics, Carl Friedrich von Siemens/Humboldt Foundation Research Award</td>
</tr>
<tr>
<td>Norman Yao</td>
<td>2018 Sloan Research Fellow</td>
</tr>
<tr>
<td>Ahmet Yildiz</td>
<td>2017 Vilcek Prize for Creative Promise in Biomedical Sciences</td>
</tr>
<tr>
<td>Michael Zaletel</td>
<td>2018 McMillan Award Winner</td>
</tr>
</tbody>
</table>

---

**Physics @Berkely**
Dan Stamper-Kurn
Miller Professor 2018-19
AMO & CM Physics
Soonwoon Choi, Harvard
Miller Fellow 2018-2021
Physics
Host: Prof. Dung Hai Lee

Nicholas Rodd, MIT
Miller Fellow 2018-2021
Physics
Host: Surjeet Rajendran
In Memory Of...

Martin Halpern  
1939-2018

BCTP Symposium  
March 29-30, 2019

Organizers  
Zvi Bern, UCLA  
Jan deBoer, Amsterdam  
Ori Ganor, Berkeley  
Niels Obers, Niels Bohr Institute

Physics 
@BERKELEY
In Memory Of...

Vern Ehlers
1934-2017

First Physicist elected to Congress

BA, Physics, UC Berkeley 1955
PhD, Exp Nuclear Physics, UC Berkeley, 1960
UC Berkeley researcher, 1960-1966
Professor and Physics Chair, Calvin College, 1966-1982
US House of Representatives, 1993-2011
Staff News - Retirements

Joseph Kant  
Student Shop Instructor & Machinist  
38 yrs with Physics

Donald Orlando  
Upper Div. Lab and R&D Engineer  
43 yrs with Physics
Staff News

New Appointments
Beth McCleary, Faculty Admin. Support (Moore/Yao/Altman)
Nicole Pagano, Chief of Staff (Perlmutter)
Jesus “Jesse” Lopez, Student Shop Supervisor
Marissa Saraf, Finance Manager
Winthrop Williams, 111 Lab Manager

2017-18 “Years of University Service” Awards
30 Years: Donna Sakima, Graduate Student Advisor
15 Years: Winthrop Williams, 111 Lab Manager
10 Years: Sylvie Mehner, Dev. & Comm. Specialist
New Postdocs and Visitors

Altman Group
Ziangyu Cao (Postdoc)
Shubhayu Chatterjee (Postdoc)
Ryusuke Hamazaki
(Vstag Student Researcher)
Zala Lenarcic (Postdoc)
Yochai Werman (Postdoc)

Analytis Group
Ella O Lachman (Postdoc)
Eran Maniv (Postdoc)

Birgeneau Group
Xiang Chen (Postdoc)

Cohen Group
Mehmet Dogan (Postdoc)

Berkeley Center for Theoretical Physics (BCTP)
Anders Andressen (Postdoc)
Ning Bao (Postdoc)
Swapan Chaterji (Vstag Researcher)
Jeff Dror (Postdoc)
Michael Fredderke (Postdoc)
Harikrishnan Ramani (Postdoc)
Grant Remmen (Miller Postdoctoral Fellow)
Nick Rodd (Miller Postdoctoral Fellow)
Zhengkang "Kevin" Zhang (Postdoc)
New Postdocs and Visitors

**Crommie Group**
Hsin Zon Tsai (Postdoc)
Charlotte Herbig (Postdoc)
Wei Ruan (Postdoc)
Gaoqiang Wang (Postdoc)
Rafal Zuzak (Vstg Student Researcher)

**Falcone Group**
Bjoern Enders (Postdoc)
Alison M. Saunders (Postdoc)

**Haeffner Group**
Wei-Ting Chen (Postdoc)
Sara L Mouradian (Postdoc)

**Hallatschek Group**
Takashi Okada (Vstg Student Researcher)
Tom Suter (Vstg Student Researcher)

**Haxton Group**
Chia Cheng Chang (RIKEN Postdoc)
Christian Drischler (Postdoc)
Evan B Grohs (Postdoc)
Sherwood A Lagergren (Postdoc)
Kenneth Scott Mcelvain (Postdoc)
Amol V. Patwardhan (Postdoc)
Andre Walker-loud (Vstg Researcher)
New Postdocs and Visitors

**Hellman Group**
Hilary C Jacks (Postdoc)

**Jacak Group**
Nicole J Apadula (Postdoc)

**Ji Group**
Katharine Borges (Postdoc)
Wei Chen (Postdoc)
Ziwei Lie (Vstag Student Researcher)
Ryan G Natan (Postdoc)
Jose A Rivera (Postdoc)
Cristina Rodriguez (Postdoc)
Jianglai Wu (Postdoc)
Qinrong Zhang (Postdoc)

**Kolomensky Group**
Laura Marini (Postdoc)

**Lanzara Group**
Claudia Giuseppina Fatuzzo (Postdoc)

**Adrian Lee Group**
Aamir M Ali (Postdoc)
Peter C. Ashton (Postdoc)
Kevin Crowley (Postdoc)
Trevor Sasse (R&D Engineer)

**Dung-Hai Lee Group**
Zixiang Li (Postdoc)

**Littlejohn Group**
Yuki Sato (Vstag Student Researcher)
New Postdocs and Visitors

**Louie Group**
Hyoung Joon Choi (Vstg Scholar)
Sheng Ju (Vstg Scholar)
Diana Qiu (Postdoc)

**McKinsey Group**
Quentin Riffard (Postdoc)

**Moore Group**
John Cardy (Researcher)
Ashley Cook (Postdoc)
Maxime Dupont (Postdoc)
Andrey Gromov (Postdoc)
Johannes Motruk (Postdoc)
Nathan Ng (Postdoc)
Markus Schmitt (Postdoc)

**Mueller Group**
Sara Campbell (Postdoc)
Sofus Christensen (Vstg Scholar)
Richard Parker (Postdoc)
Osip Schwartz (Postdoc)

**Neaton Group**
Marina Filip (Postdoc)
Leeor Kronik (Vstg Scholar)
Chechen Song (Postdoc)
Derek Vigil (Vstg Scholar)

**Orebi Gann Group**
Morgan A Askins (Postdoc)
Michinari Sakai (Postdoc)

**Orenstein Group**
Changmin Lee (Postdoc)
New Postdocs and Visitors

**Qiu Group**
Moritz Reh (Vstg Student Researcher)
Tom Suter (Vstg Student Researcher)

**Ramesh Group**
Weichuang Huang (Postdoc)

**Seljak Group**
Vanessa M Boehm (Postdoc)
Francois Lanusse (Postdoc)
Marius Millea (Postdoc)
Kara A. Ponder (Postdoc)
Sukhdeep Singh (Postdoc)
Hongming Zhu (Postdoc)
Miguel Zumalacarregui (Vstg Scholar)

**Shapiro Group**
Mustafa Caglar (Vstg Student Researcher)
Stephen R Elliott (Vstg Scholar)

**Siddiqi Group**
Shahid Nawaz (Postdoc)

**Stamper-Kurn Group**
Kayleigh Cassella (Postdoc)
Joshua Isaacs (Postdoc)
Yee Ming Tso (Vstg Student Researcher)

**Wang Group**
Guorui Chen (Postdoc)
Hai Zhang (Vstg Scholar)
Wenyu Zhao (Postdoc)
New Postdocs and Visitors

**Yao Group**
Marin G. Bukov (Postdoc)
Quntao Zhuang (Postdoc)

**Zettl Group**
Jeffrey Cain (Postdoc)
Mustafa Caglar (Vstg Scholar)
Sign up on the postdoc email list (vspa@berkeley.edu) to hear about special events—for networking, career, education, family, and fun—hosted by VSPA and its affiliated programs.
Students: Undergraduate Physics Degrees

- Total Number of AB Degrees Granted 2017/18: 103
Students: Undergraduate Majors

- Number of current Declared Physics Majors: 336
Welcome to our Newest Graduate Students!

Aleksandr Avdoshkin - *Moscow Institute of Physics and Technology*
Ella Banyas - *Reed College*
Adrian Bayer - *Univ of Cambridge*
Marcus Bintz - *California Institute of Technology*
Maxwell Block - *Stanford University*
Newton Cheng - *Stanford University*
Trevor Chistolini - *Harvard University*
Andrew Christensen - *University of California, Berkeley*
Lance Corbett - *Johns Hopkins University*
Welcome to our Newest Graduate Students!

Biwei Dai - *Peking University*
Elizabeth Dresselhaus - *University of Pennsylvania*
Ben Foster - *University of Chicago*
Adam Frim - *Harvard University*
Daniel Gardeazabal - *University of Illinois at Urbana-Champaign*
Daniel Gawerc - *California Institute of Technology*
Zachary Hall - *Massachusetts Institute of Technology*
Gwen Hanley - *University of Colorado at Boulder*
Andrew Hensley - *North Carolina State University at Raleigh*
Welcome to our Newest Graduate Students!

Andrea Herman - Massachusetts Institute of Technology
Helia Kamal - University of California, Berkeley
Jaewon Kim - Princeton University
Ezra Lesser - University of Michigan-Ann Arbor
Haoran Liao - McGill University
Yang Lyu - University of Illinois at Urbana-Champaign
Christopher Madsen - University of California, Santa Barbara
Michael McDonnell - University of Wisconsin-Eau Claire
Avirukt Mittal - Cornell University
Welcome to our Newest Graduate Students!

Chitraang Murdia - *Massachusetts Institute of Technology*
Brent Page - *Johns Hopkins University*
Daisong Pan - *Peking University*
James Parkes - *University of Alabama*
Roger Romani - *Stanford University*
Ben Saltzman - *University of Rochester*
Nick Sherman - *University of California, Davis*
Max Smiley - *University of Pennsylvania*
Alex Smith - *University of Chicago*
Welcome to our Newest Graduate Students!

Tomohiro Soejima - Massachusetts Institute of Technology
Jack Spilecki - Massachusetts Institute of Technology
Mykhaylo Usatyuk - University of Chicago
Kenneth Vetter - Cornell University
Tianye Wang - Peking University
Elizabeth Wildenhain - University of Notre Dame
Junwen Xiong - University of California, Los Angeles
Yuyang Zhou - Columbia University
Summer Zuber - University of California, Santa Cruz
Student Organizations

Society of Physics Students (SPS) is a professional, national organization for all physics students.
• Faculty-Student Lunches
• Career Seminar Series
• Field Trips

The Career Development Initiative for the Physical Sciences (CDIPS) aims to expose graduate and postgraduate students to careers outside academia and strengthen ties between academic science and industry.

IGenSpectrum aims to strengthen a sense of community for LGBT+ physicists and reach out to future generations of students.

Society of Women in the Physical Sciences (SWPS) encourages women and minorities to study the physical sciences and creates a friendly, supportive environment.
• Launch Day
• Mentoring Program
• SPWS dinners

Physics Graduate Student Association (PGSA) is a governing and advocacy body for graduate students.

The Compass Project supports diversity, community, and pedagogy in the physical sciences.
• Summer Program for Freshman
• Courses
• Mentoring Program

Respect is Part of Research provide in-person gender bias and sexual harassment prevention and awareness education to fellow graduate students.
Get involved!

Opportunities for public science outreach:

*Science Cafes*
*Lectures*
*Bay Area Science Festival*
*Cal Day & more…*

Email: scienceatcal@berkeley.edu
FB + Twitter: @scienceatcal
Infrastructure: Construction Projects – 2017/18

Birge 3rd floor Conference Room

Lecture Hall 1-4 Air Handler Upgrade
2017-18 Lectures

Emilio Segrè Lecture
Monday, October 30, 2017

“Neutrino Oscillations at the Super-Kamiokande Detector”

Presented by Takaaki Kajita, University of Tokyo, representing the Institute for Cosmic Ray Research

Chevron Auditorium, I-House
Emilio Segrè Lecture
Monday, October 30, 2017

“Neutrino Oscillations at the Super-Kamiokande Detector”

Presented by Takaaki Kajita, University of Tokyo, representing the Institute for Cosmic Ray Research

Chevron Auditorium, I-House
2017-18 Lectures

Emilio Segrè Lecture
Monday, October 30, 2017

“Neutrino Oscillations at the Super-Kamiokande Detector”

Presented by Takaaki Kajita, University of Tokyo, representing the Institute for Cosmic Ray Research

Chevron Auditorium, I-House
Emilio Segrè Lecture
Monday, October 30, 2017

“Neutrino Oscillations at the Super-Kamiokande Detector”

Presented by Takaaki Kajita, University of Tokyo, representing the Institute for Cosmic Ray Research

Chevron Auditorium, I-House
2017-18 Lectures

J. Robert Oppenheimer Lecture
Monday, February 26, 2018

“What Happened Before the Big Bang & Other Big Questions About the Universe”

Presented by Michael Turner, University of Chicago, representing the Enrico Fermi Institute

Chevron Auditorium, I-House
2017-18 Lectures

J. Robert Oppenheimer Lecture
Monday, February 26, 2018

“What Happened Before the Big Bang & Other Big Questions About the Universe”

Presented by Michael Turner, University of Chicago, representing the Enrico Fermi Institute

Chevron Auditorium, I-House
J. Robert Oppenheimer Lecture
Monday, February 26, 2018

“What Happened Before the Big Bang & Other Big Questions About the Universe”

Presented by Michael Turner, University of Chicago, representing the Enrico Fermi Institute

Chevron Auditorium, I-House
2017-18 Lectures

J. Robert Oppenheimer Lecture
Monday, February 26, 2018

“What Happened Before the Big Bang & Other Big Questions About the Universe”

Presented by Michael Turner, University of Chicago, representing the Enrico Fermi Institute

Chevron Auditorium, I-House
Events: CalDay April 21, 2018
Events: CalDay April 21, 2018

Thanks to 200 volunteers!!
Events: CalDay April 21, 2018
Events: CalDay April 21, 2018
Events: Graduate Student Poster Session
Event: Undergraduate Poster Session
Event: Physics/Astronomy Commencement 2018!

May 15, 2018, Zellerbach Auditorium
Event: Commencement 2018!

Rai Weiss

159 BA degrees in Physics, Astronomy, Engineering Physics
Event: Commencement 2018!

He’s back!

48 Masters degrees in Physics and Astronomy
Event: Commencement 2018!

56 PhD degrees in Physics and Astronomy
Progress on 2017/18 Projects...
As part of a university-wide initiative to strengthen the undergraduate experience, Berkeley Physics has launched a new laboratory curriculum as of Spring 2017. Designed specifically for freshmen interested in majoring in Physics, the new laboratory courses, Physics 5BL and Physics 5CL, offer students significantly better exposure to experimental physics techniques than the worksheet-based labs that are currently being used.
Phys 198 – Transfer Course for Physics Majors

- Launched in Fall 2017 to help transfers adjust academically and socially
- 1 GSI + 5 UG Mentors led the class
- Overwhelmingly positive feedback from students about the value of the course
- The course was recognized by the college with a Team Achievement Award

Fall 17 Transfer Mentors

Fall 18 Class begins Aug 22nd!
45 Transfer Students Enrolled
3 New Mentors / 2 Returning
1 New GSI
Some science milestones 2017-18

- Astrophysics
- Atomic, Molecular and Optical Physics
- Biophysics
- Condensed Matter Physics and Materials Science
- Nuclear Physics
- Particle Physics
- Plasma and Nonlinear Dynamics
compact object mergers and stellar explosions

First joint detection of electromagnetic and gravitational wave radiation: Neutron star merger GW170817

Key Science results

- Measurement of speed of gravity
- Detection of heavy elements formation via neutron capture
- Constraints on nuclear equation of state
- Explore new regimes of neutrino, dark matter physics
- Measurement of Hubble constant via “standard sirens”

Crucial involvement from Berkeley theory/modeling (Kasen and Quataert and their former grad students Metzger, Barnes)

Fajans-Wurtele Antihydrogen Research @ CERN

Hyperfine Spectrum (Nature August 2017)
Precision: $4 \times 10^{-4}$

1S-2S Spectrum (Nature April 2018)
Precision: $2 \times 10^{-12}$

1S-2P (Nature August 2018)
Precision: $5 \times 10^{-8}$

Eric Hunter (G), Joel Fajans, Jonathan Wurtele, Mike Davis (BA ‘18), Dana Zimmer (BA ‘18), Michael Mastalish (UG visitor from Marquette), Dalila Robledo (UG), Andrew Christensen (BA ‘18, G), Huws Landsberger (UG), Celeste Carruth (Ph.D. ’18, postdoc)

The Berkeley Team at ALPHA (CERN) Summer 2018
Scientific Mission:
This EFRC will dramatically expand our understanding and ability to control coherence in solids by building on recent discoveries in quantum materials along with advances in experimental and computational techniques.

Executive Committee

Joel Moore, LBNL, Director
David Awschalom, ANL, Deputy Director
Dmitri Basov, Columbia
Giulia Galli, ANL
Ania Bleszynski Jayich, UCSB
Norman Yao, LBNL (Thrust 1 Lead)
Feng Wang, LBNL (Thrust 2 Lead)
James Analytis, LBNL (Thrust 3 Lead)

Projected funding: $11.75M/4 years.

Scientific thrusts and examples

Thrust 1: Control and use coherence in point defects in active backgrounds.
Figure (a): Schematic NV center in diamond used for quantum sensing

Thrust 2: Explore coherent transport along 1D topological edges and boundaries.
Figure (b): Controlled writing of 1D boundary in 2D materials.

Thrust 3: Understand role of coherence in unconventional 3D bulk transport.
Figure (c): LaIrSi structure, one example of a class of compounds to be investigated.
Laser-based phase contrast in transmission electron microscopy (Mueller, Glaeser, Nogales)

1. Ponderomotive potential of brightest cw laser ever as electron phase shifter
2. Solve unknown structures of smaller and smaller proteins
3. Coherent electron beamsplitter? Spectral/temporal manipulation of monochromatic e-beams?
A quantum consortium with international convening power

$47 M / 5 yr research initiative
- A 64-128 qubit computer
- Advanced gate architectures
- Novel materials and circuits
- Custom digital electronics
2018-19
Looking Ahead...
Berkeley Physics is an important part of the world’s finest research university, led by a new team*

- *current deficits → sustainability:* goals met for two years, on track to a balanced budget by the end of 2019

- *public relations:* more constructive partnerships with the governor, legislators to combat 25 years of eroding state funding

- *free-speech conflicts → civilized dialog*

- *student housing:* double from the current capacity of 22%

- *diversity:* Berkeley attracts fewer Hispanics than other UC campuses

*Chancellor Carol Christ
EVP and Provost Paul Alivisatos
• *faculty growth*: 100 new positions sought
• *capital budget*: many buildings need seismic reinforcement
• *a discovery experience for all undergraduates*
• *a campaign for Berkeley*
• *where are we going?:* A Berkeley plan for 2028
Campus’s “great challenges” Vision for 2028

• Pioneer an inclusive approach to technology, artificial intelligence, and big data to ensure their ethical and responsible use
• Harness our disciplinary breadth, and our partnership with LBNL to understand and counter the effects of climate change and foster sustainability and environmental justice
• Illuminate the paths to resilient societies that promote democratic values and thrive on diversity and free expression
• Uncover the sources and impacts of inequality to increase opportunity for marginalized communities and populations, both globally and locally
• Chart a course for the new discoveries needed for human health, including identifying and integrating the factors that undermine health
Physics and other Berkeley basic sciences at need perhaps a different challenge

To inspire future generations to continue humankind’s quest to understand the origin, evolution, and content of our cosmos - its space, time, matter, and energy
to excite us and others who like physics
State of the Department: Instruction

2014 - 2018 PHYS Students
26% Growth

<table>
<thead>
<tr>
<th>School Year</th>
<th>Declared Majors</th>
<th>Intended Majors</th>
<th>Grad Students</th>
<th>Concurrent Enrollments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>130</td>
<td>258</td>
<td>125</td>
<td>350</td>
</tr>
<tr>
<td>2015</td>
<td>131</td>
<td>263</td>
<td>150</td>
<td>386</td>
</tr>
<tr>
<td>2016</td>
<td>128</td>
<td>240</td>
<td>200</td>
<td>352</td>
</tr>
<tr>
<td>2017</td>
<td>175</td>
<td>260</td>
<td>230</td>
<td>344</td>
</tr>
<tr>
<td>2018</td>
<td>196</td>
<td>282</td>
<td>275</td>
<td>336</td>
</tr>
</tbody>
</table>

2016 - 2018 TOTAL ENROLLMENTS
16% GROWTH

- 2016: 7,117
- 2017: 7,665
- 2018: 8,240
State of the Department: Research

C&G Revenue FY11-18
~48 % Growth
So we are doing great, except that this growth is occurring at a time of

• restricted budgets
• no FTE faculty growth
• new rules that make lab renovations expensive

So Physics must become more inventive

• finding new resources to create modern classroom and research experiences for our students
• improving the physical infrastructure within LeConte
• crafting initiatives for new faculty hiring
• helping our graduate students manage life in expensive Berkeley
The Physics Innovators Initiative (Pi²) is our new vision for modernizing, streamlining, and strengthening the path students follow as they pursue their undergraduate success. Pi²’s immediate focus will be reinventing the Physics 7 and 8 series and will include the creation of new labs to help students transition into our Advanced Lab course 111. Students will also be able to learn about modern machining and fabrication in an upgraded Student Machine Shop.
Infrastructure

Wonderful historic building at the core of campus but aging: campus seismic initiative could be relevant!
Infrastructure: The Student Machine Shop
Infrastructure: The Physics R&D Machine Shop

Gordon Long, Tommy Gutierrez, Warner Carlisle, Jesse Lopez & Abel Gonzalez
Infrastructure: Construction Projects – 2018/19

• Lecture Hall 1-4 Emergency Lighting upgrade

• Le Conte Hall Annex Elevator Replacement

• Le Conte Hall Annex Emergency Lighting (pending UCOP approval)
Many Other Opportunities and Challenges

- **administrative efficiency:** make it easier to do physics
  - strong in-house administrative team has helped buffer us from the difficulties with CSS

- **equity and inclusion:**
  - new “climate” audit underway, to assess our progress
  - Bob Birgeneau, Barbara Jacak heading Equity & Diversity

- **new research initiatives that can extend our reach**
  - Data Science, proposals from RIKEN and from CNRS
  - faculty ad hoc committees will be evaluating potential

- **donor initiative: junior chairs**
  - helping us to compete in recruiting with our private peers

- **graduate student stipends**
2019 Faculty Recruitment

The Physics Department is conducting an open search to fill a tenure-track faculty position for an Assistant Professor in *Experimental Atomic, Molecular, and Optical (AMO) Physics, Experimental Biophysics, or Experimental Condensed Matter Physics*, with an expected start date of July 1, 2019.

The basic qualifications required to be considered an applicant is a PhD (or equivalent international degree) or enrollment in a PhD (or equivalent international degree) granting program at the time of application. Preference will be given to candidates who have demonstrated originality and productivity in research, promise in teaching, and the potential to advance the physics department’s goal of a more diverse, equitable, and inclusive scholarly environment.

*Roger Falcone has agreed to chair the search*
Our First Colloquium of 2018/19

Raphael Bousso  
Professor  
Department of Physics, UC Berkeley  

10 SEPTEMBER 2018  

“Black Holes, Quantum Information, and Unification”
Looking forward to the new year...

2018 Emilio Segre Lecture
Wednesday, November 7th

Prof. Xiaowei Zhuang
Harvard University
Howard Hughes Medical Institute Investigator
Thank You!
Please join us for refreshments in the courtyard