

APS and the Physical Review Journals



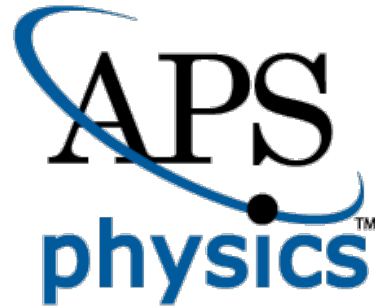
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Pheno 2022

AMERICAN PHYSICAL SOCIETY



“To advance and diffuse the knowledge of physics for the benefit of humanity, promote physics, and serve the broader physics community, we

- Provide a welcoming and supportive professional home for an active, engaged, and diverse membership
- Advance scientific discovery and research dissemination
- Advocate for physics and physicists, and amplify the voice for science
- Share the excitement of physics and communicate the essential role physics plays in the modern world
- Promote effective physics education for all

Organization:

The APS is a *nonprofit* organization, governed democratically by its members (founded 1899)

Main activities:

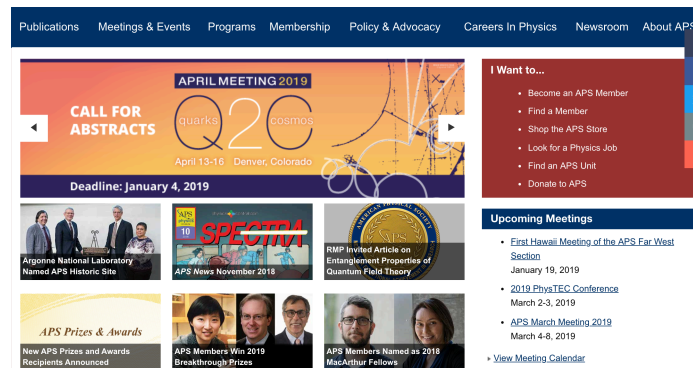
- Research publications & meeting organization
- Education & Diversity
- Policy / Advocacy & International Affairs
- Public outreach

Numbers:

- ~ 200 employees [MD College Park (HQ), NY Ridge (Ed. Office), DC]
- more than 55,000 members (20% are outside the U.S.)
- Annual budget: about \$60 M

Consider Becoming an APS Member!

- Join online or by mail/fax
- Free 1 year trial for students!
- Reduced fees for Undergraduate, Graduate, Early Career and Senior members
- Open to all international physicists
- Matching Membership option for physicists from developing countries



www.aps.org



The 2018 Nobel Prize in Physics



L-R: Arthur Ashkin, Gérard Mourou, Donna Strickland

By Leah Poffenberger

On October 2, the Royal Swedish Academy of Sciences announced this year's winners of the Nobel Prize in Physics

States), and Donna Strickland (University of Waterloo, Canada). Strickland is the third female physicist to receive this award and the first to do so since 1963.

Strickland for their method of generating high-intensity, ultra-short optical pulses. Both inventions represent major breakthroughs in the use of laser beams for practical

For Member Comment: Proposed APS Ethics Statement

Over the past year, a subcommittee of the APS Panel on Public Affairs has been reviewing, updating, and combining the existing APS statements in the areas of ethics and professional conduct into one comprehensive document that addresses expected standards of behavior and professional activity.

A draft of this revised Statement on Ethics is now available and has been approved by the APS Board of Directors to be sent to APS members for comment. Your comments are welcomed and suggestions for improving the statement are encouraged.

All comments will be read and will receive full consideration by the Panel on Public Affairs subcommittee as it prepares a final statement that will be forwarded to the APS Council for approval early next year.

Benefits

- Participate in APS governance
- Receive Physics Today and APS News
- Reduced registration and right to present at APS meetings
- Discounted access to APS journals
- Support the broader physics community

APS Chapters

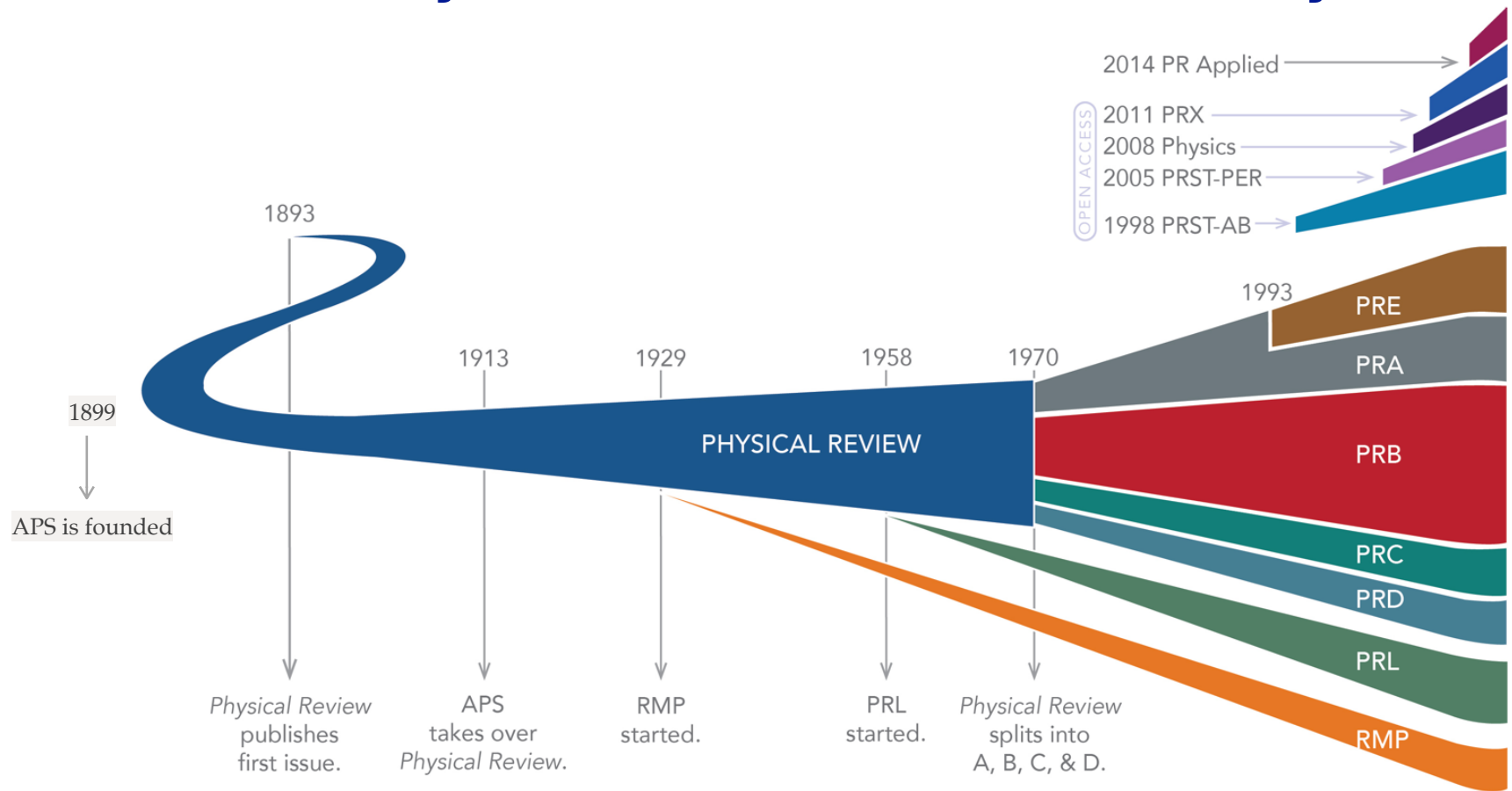
- APS Chapters seek to support the development of graduate students and early-career individuals as colleagues and future leaders.
- Pilot program launched Fall 2020
- Current participating Institutions:

- | | | |
|---|--|--|
| <ul style="list-style-type: none">• Arizona State University• Drexel University• Florida State University• Lawrence Livermore National Laboratory• Los Alamos National Laboratory | <ul style="list-style-type: none">• Rochester Institute of Technology• The Ohio State University• The University of North Carolina at Chapel Hill• The University of Texas at Arlington | <ul style="list-style-type: none">• University of Central Florida• University of Houston• University of Michigan• University of Pennsylvania, University of Wisconsin-Madison |
|---|--|--|

Farah Dawood, APS Chapters Program Manager

chapters@aps.org

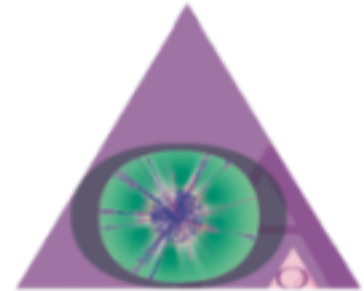
The Physical Review Journal Family



~40,000 manuscripts per year!

SCOAP³

CERN-led Sponsoring Consortium for Open Access Publishing to publish high-energy physics (HEP) papers open access.



HEP papers published after January 1, 2018 in **PRL**, **PRC**, and **PRD** are published open access, paid for centrally by SCOAP3. Library subscriptions will be modified accordingly (initially up to the end of 2019).

- Must be posted on *arXiv.org* **prior** to publication with a primary category of **hep-ex**, **hep-th**, **hep-ph**, or **hep-lat**.
- Authors do not have to pay any charges, it's **free!**
- Papers may qualify irrespective of the authors' institutional affiliations or countries of origin.

PRD Editorial Initiatives

- Highlighting via Editors' Suggestions, since 2014

<https://twitter.com/physrevd>

- Reinforcing standards and more rejections without review (2020)

<https://journals.aps.org/prd/edannounce/10.1103/PhysRevD.102.010001>

- PR journals introduce/rebrand Letters section (2021)

<https://journals.aps.org/prd/edannounce/10.1103/PhysRevD.103.050001>

- Expanding coverage in astrophysics and astronomy (2022)

<https://journals.aps.org/prd/edannounce/10.1103/PhysRevD.105.020001>

Hiring of astrophysicist **Enrico Ramirez-Ruiz** as part-time Editor and appointing three new members to the Editorial Board:

Manuela Campanelli, Daniel Kasen, Samaya M. Nissanke

Support Peer-Review: *Become a Referee*

<https://journals.aps.org/become-a-referee>

What we need:

- Unique identifier: ORCID, Google Scholar, Publons, personal website
- Supply expertise in which you have worked and published
- Keep your expertise and contact info up to date

What we look for:

- Current academic / research position with reputable publication record
- **Junior researchers:** Ask your advisor to write a **joint report**
- **Senior researchers:** Involve students in writing a **joint report**

Please submit good papers

Please write good reports



Questions & Comments about journals welcome

Feel free to come talk to me

APS is for physicists

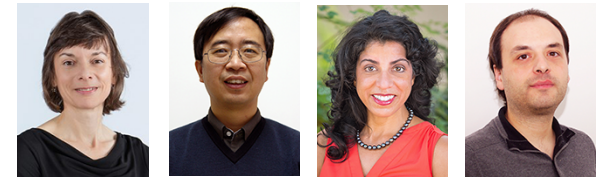
Phys. Rev. journals are your journals

We need your engagement and feedback

Thanks!

APS Particle Physics and Cosmology

- Physical Review Letters
 - All subjects
 - High impact, Broad interest
 - Premier physics journal in the world
- Physical Review D
 - Field theory, gravitation, cosmology, astrophysics
 - Important and novel physics of interest to PRD readers
- Physical Review X
 - Fully Open Access, Highly Selective, Interdisciplinary
- Physical Review Accelerators and Beams
 - Fully Open Access, Accelerator science and technology
- Physical Review Research
 - Fully Open Access, Covers all fields at level of topical journals

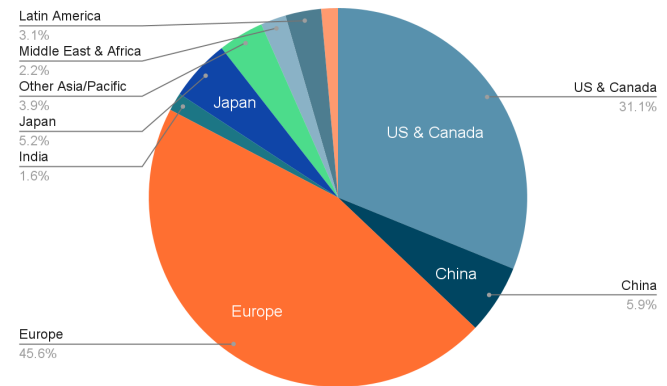
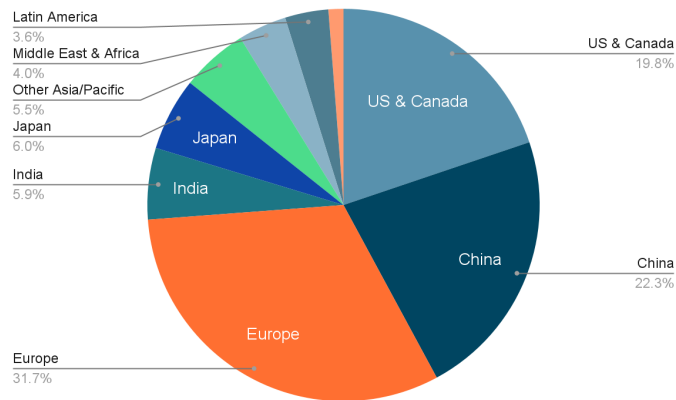


The Global Physical

Review

Submissions by region:

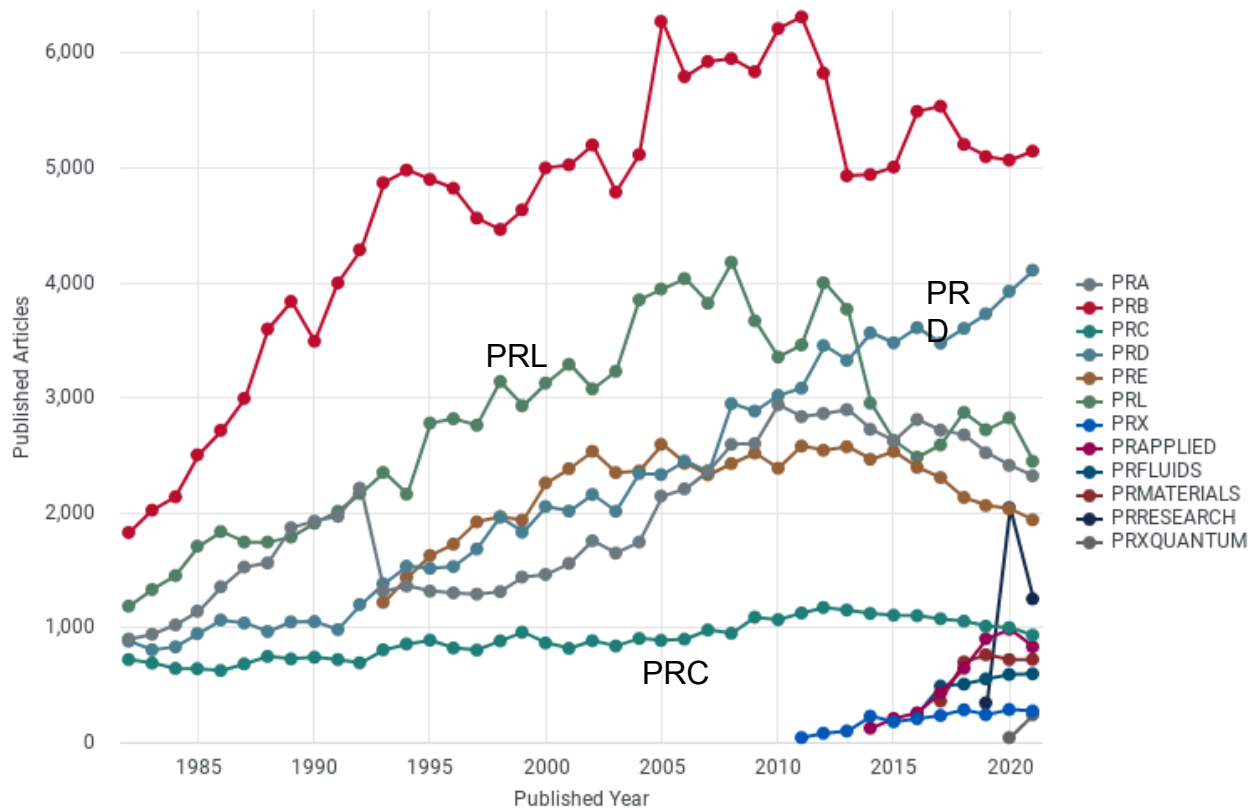
Referees by region:



Editors by region:



Increasing numbers



Open Access



“APS supports the principles of Open Access to the maximum extent possible that allows the Society to maintain peer-reviewed high-quality journals, secure archiving, and the Society's long-term financial stability, to the benefit of the scientific enterprise.”

- Goals: Published research should be freely available to all
- Driven by medicine, biology, unhappiness with commercial publishers
- Different models: Charges on publication, institution funded

APS Policies

- Authors free to publish accepted versions on own/ institutional website, arXiv
- APS journals available for free at participating US public libraries and high schools
- Authors may pay APC to make article open access in any journal