

THE PHYSICAL REVIEW

APS Journals Today and Looking Forward

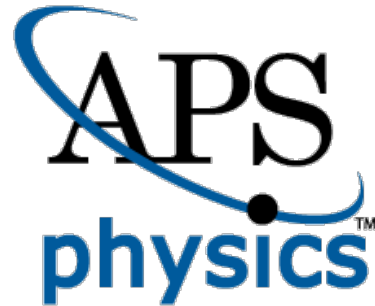


Joshua Sayre

APS, Phys. Rev. D

Pheno 2019

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:

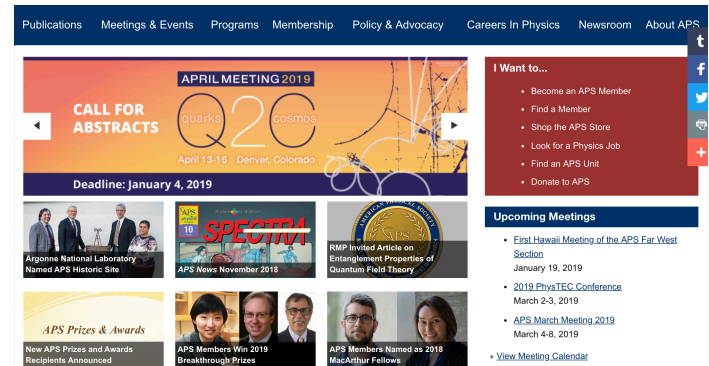
- Research publications & meeting organization
- Education & Diversity
- Policy / Advocacy & International Affairs
- Public outreach

Numbers:

- ~ 200 employees [MD College Park (HQ), NY Ridge (Ed. Office), DC]
- more than 54000 members (20% are outside the U.S.)
- Annual budget: about \$50 M

Consider Becoming an APS Member!

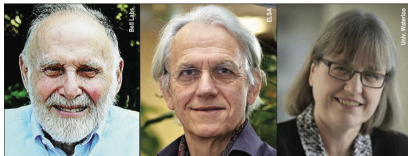
- Join online or by mail/fax
- Free 1 year trial for students!
- Reduced fees for Undergraduate, Graduate, Early Career and Senior members
- Open to all international physicists



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.

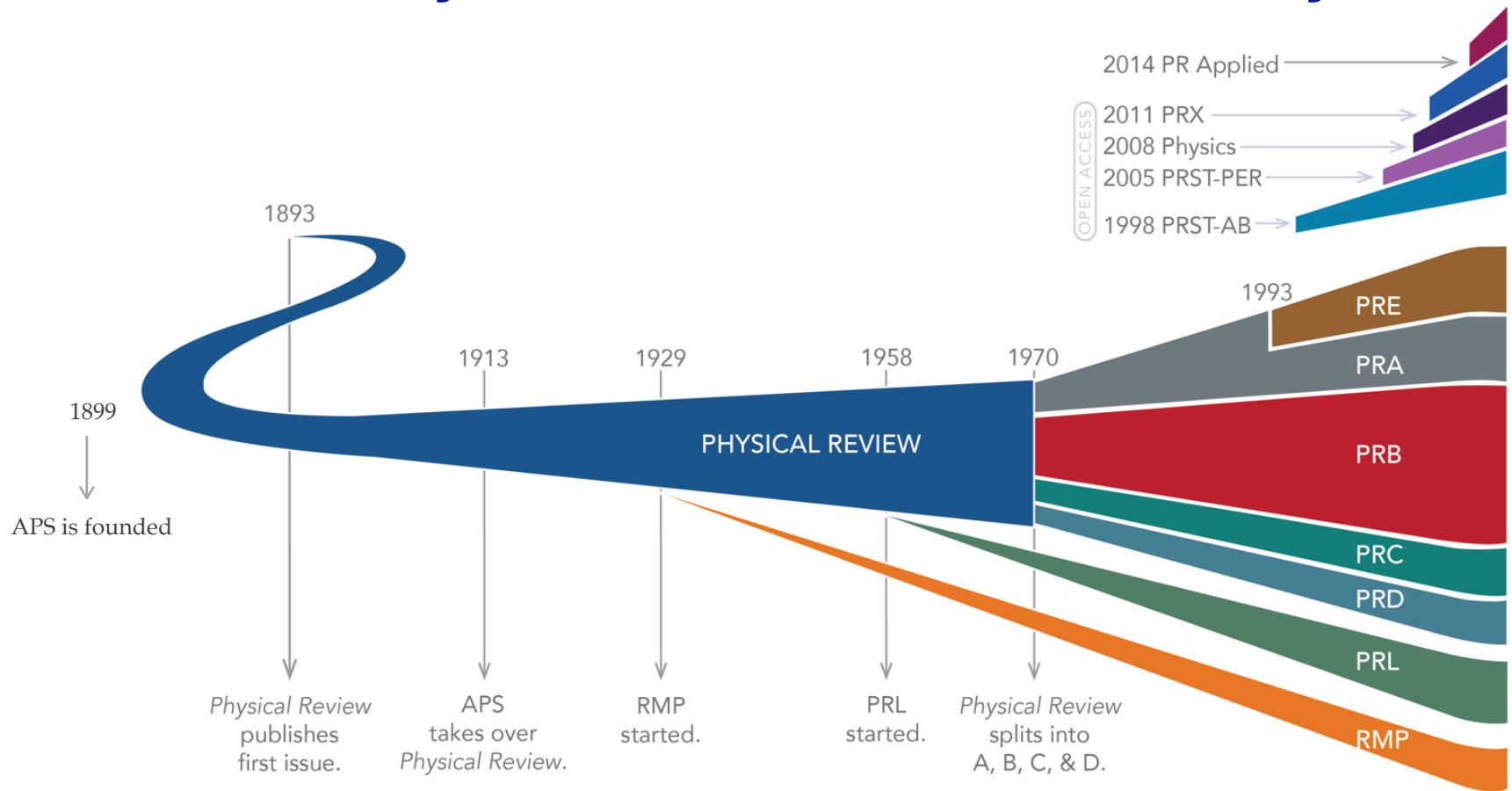
A draft of this revised Statement on Ethics is now available and has been approved by the APS Board of Directors to be sent to APS members for comment. Your comments are welcomed and suggestions for improving the statement are encouraged.

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

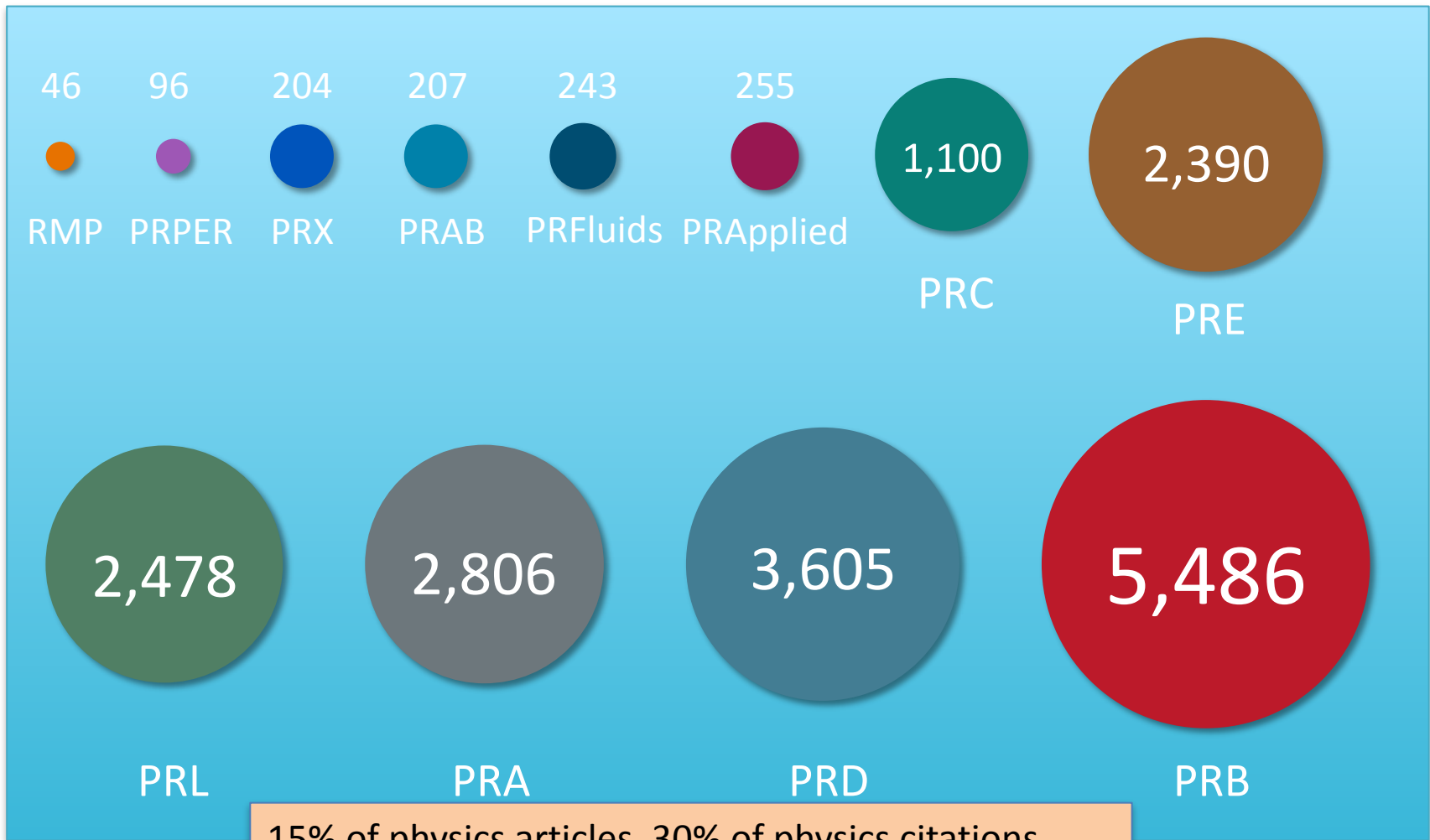
- Participate in APS governance
- Receive Physics Today and APS News
- Reduced registration and right to present at APS meetings
- Discounted access to APS journals
- Support the broader physics community

The Physical Review Journal Family



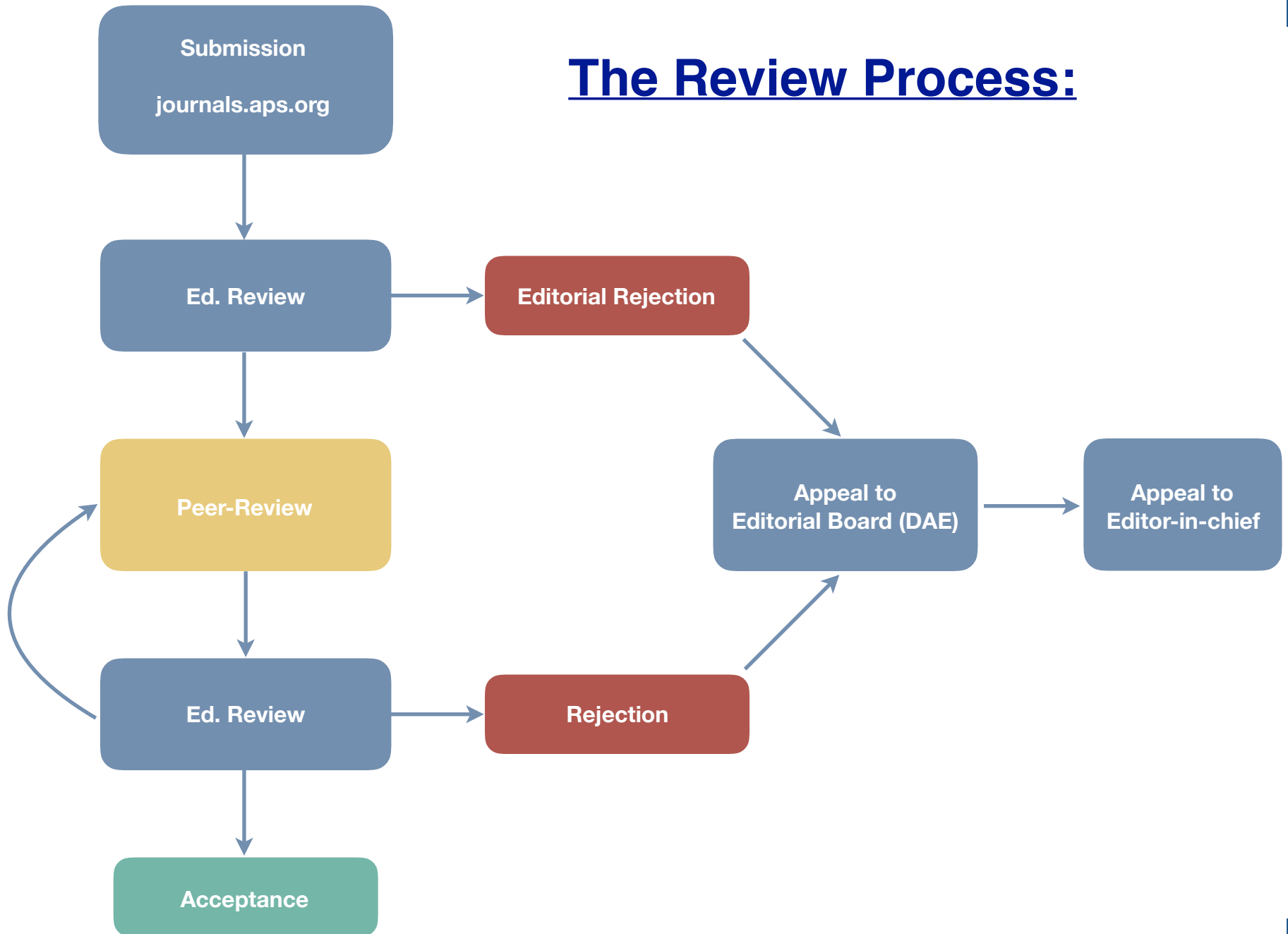
- Headquarters in Ridge, NY
- 2018 125th Anniversary for journal overall
- 2019 90th for RMP
- 2020 50th for PRA/B/C/D

Relative sizes (2016)



15% of physics articles, 30% of physics citations
40.000 ms received, 19.000 published (2017)
Every 74 seconds someone cites a PRL

The Review Process:



How you can help the review process

As Authors

- Strive for clarity in presentation: motivation, innovation, reproducibility, significance
- Suggest suitable referees, avoid conflicts of interest
- *Maintain professionalism and collegiality in responding to referees*



As Referees

- Explain your recommendation: If it should be accepted, why is it interesting to the field? What is novel? If rejected: what are the major objections? Would you consider a revision?
- Be timely! If you can't review, if you run into a delay, tell us!
- Suggest alternate reviewers
- Update your information
- *Maintain professionalism and collegiality in responding to authors*

Become a Referee

- ~ 60,000 active referees
- ~ 30,000 review at least 1 mss/year
- ~ 1,500 review more than 10 mss/year
- ~ 100 review more than 15 mss/year

New Referees:

- Please visit: <https://journals.aps.org/become-a-referee>
- Advisors can write joint reports with senior grad students, postdocs
- If you cannot review a paper suggest a referee

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.”

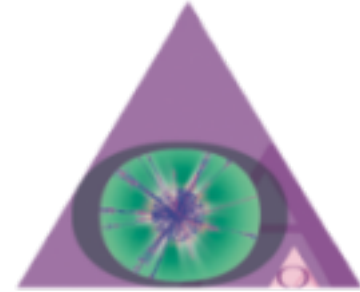
- Goals: Published research should be freely available to all
- Driven by medicine, biology, unhappiness with commercial publishers
- Different models: Charges on publication, institution funded

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

SCOAP³

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



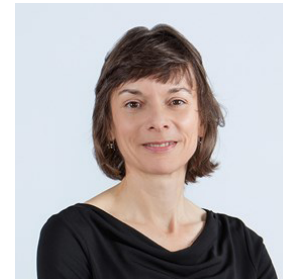
HEP papers published after January 1, 2018 in **PRL**, **PRC**, and **PRD** are published open access, paid for centrally by SCOAP3. Library subscriptions will be modified accordingly (initially up to the end of 2019).

- 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 **for free!**
- Papers may qualify irrespective of the authors' institutional affiliations or countries of origin.

New Journal Launching Soon

PHYSICAL
REVIEW
RESEARCH

- Fully Open Access
- Covering the full spectrum of physics
- Same standards as other topical Physical Review journals
- Expect later this year



Lead Editor Prof. Nicola Spaldin
Stay Tuned for more!

- Please submit good papers
- Please write good reports

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
- Important and novel physics of interest to PRD readers



Physical Review X

- Fully Open Access, Highly Selective, Interdisciplinary

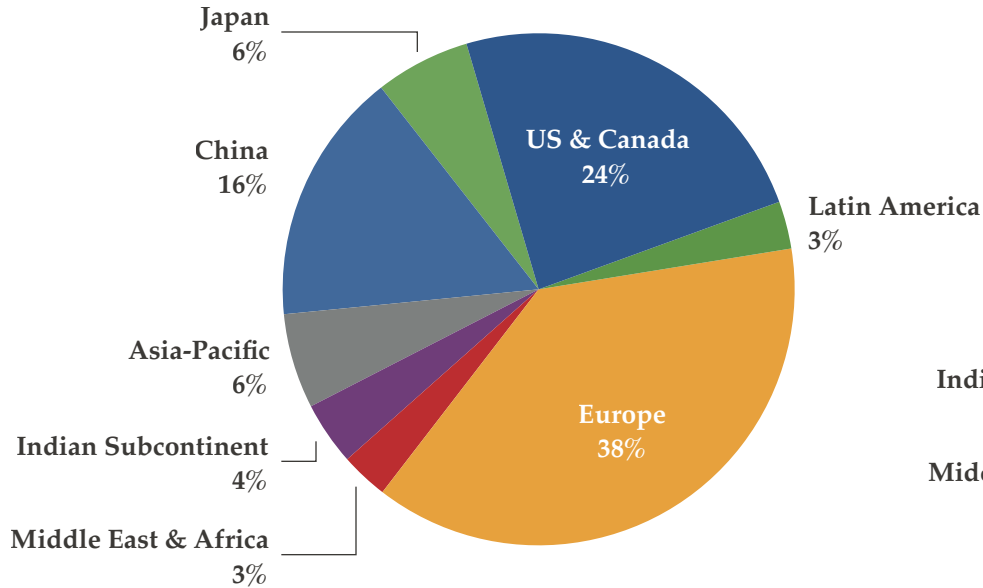
Physical Review Accelerators and Beams

- Fully Open Access, Accelerator science and technology

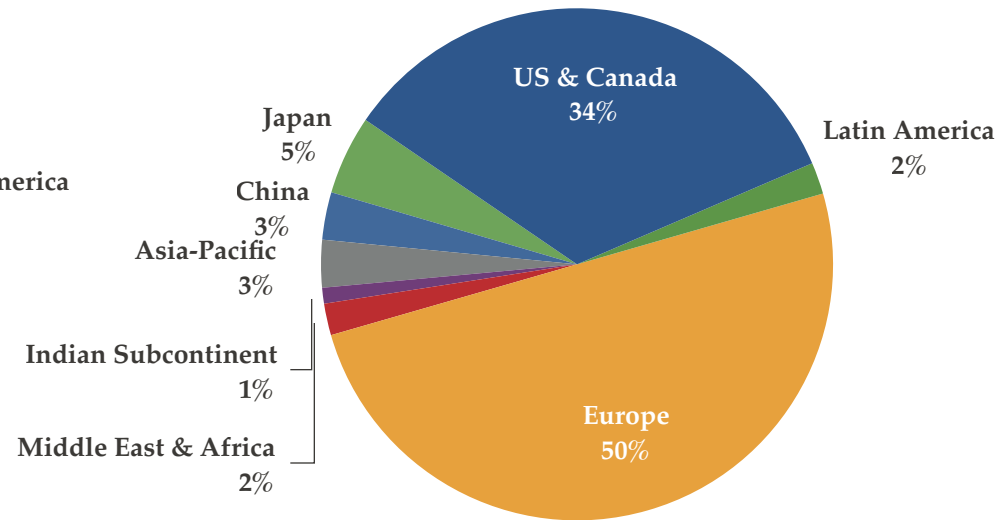


The Global Physical Review

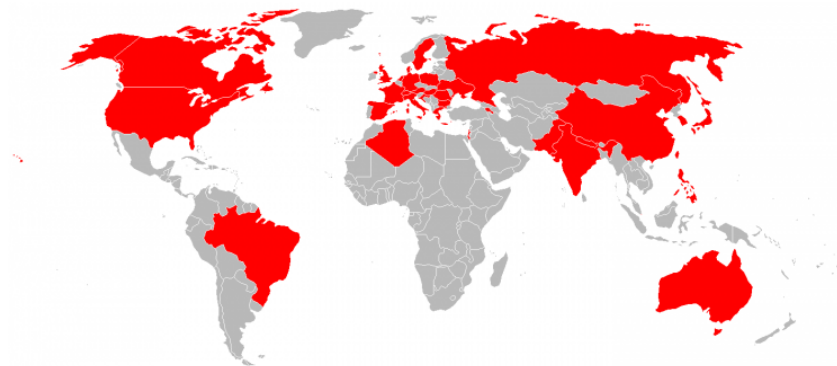
Submissions by region:



Referees by region:

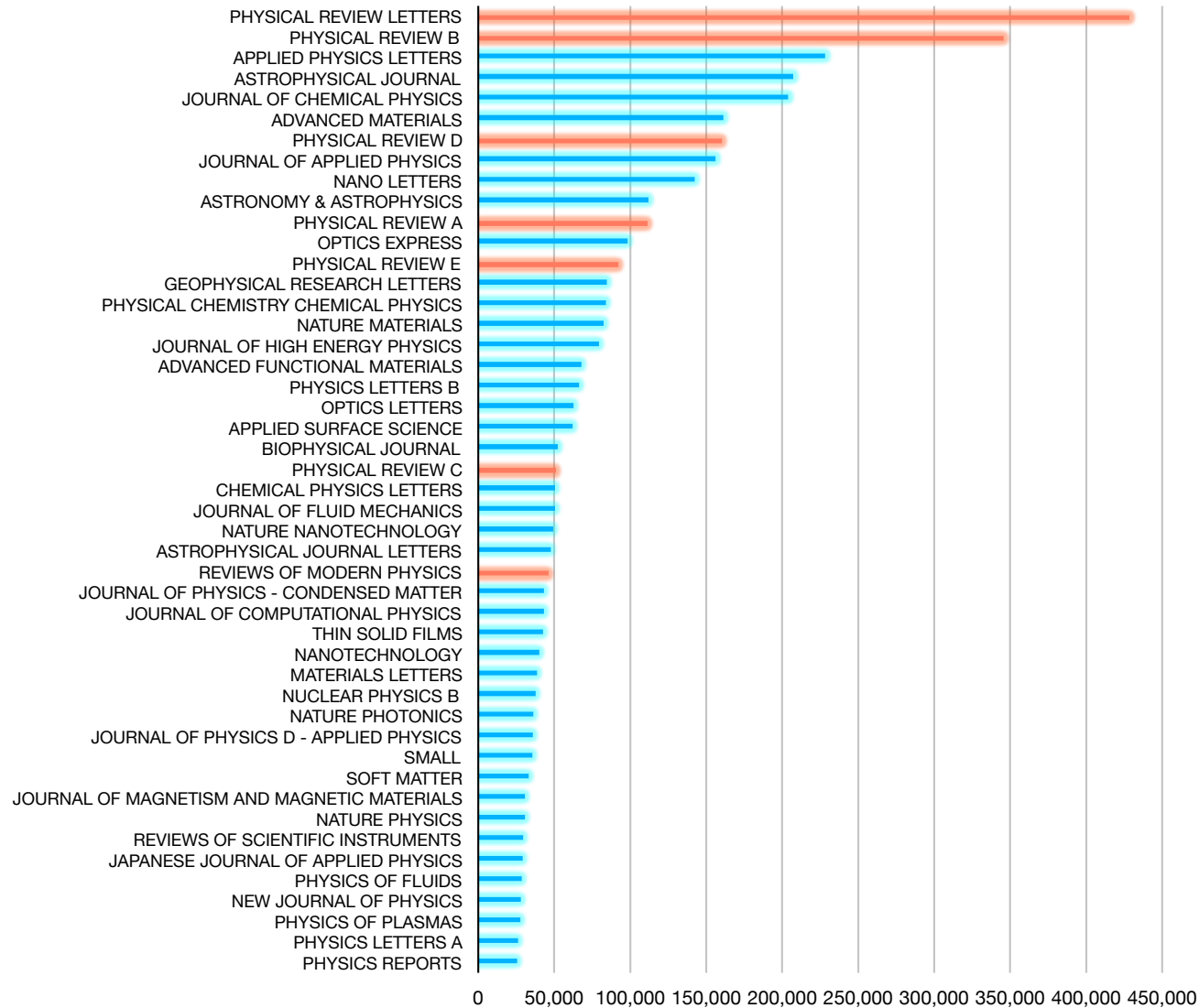


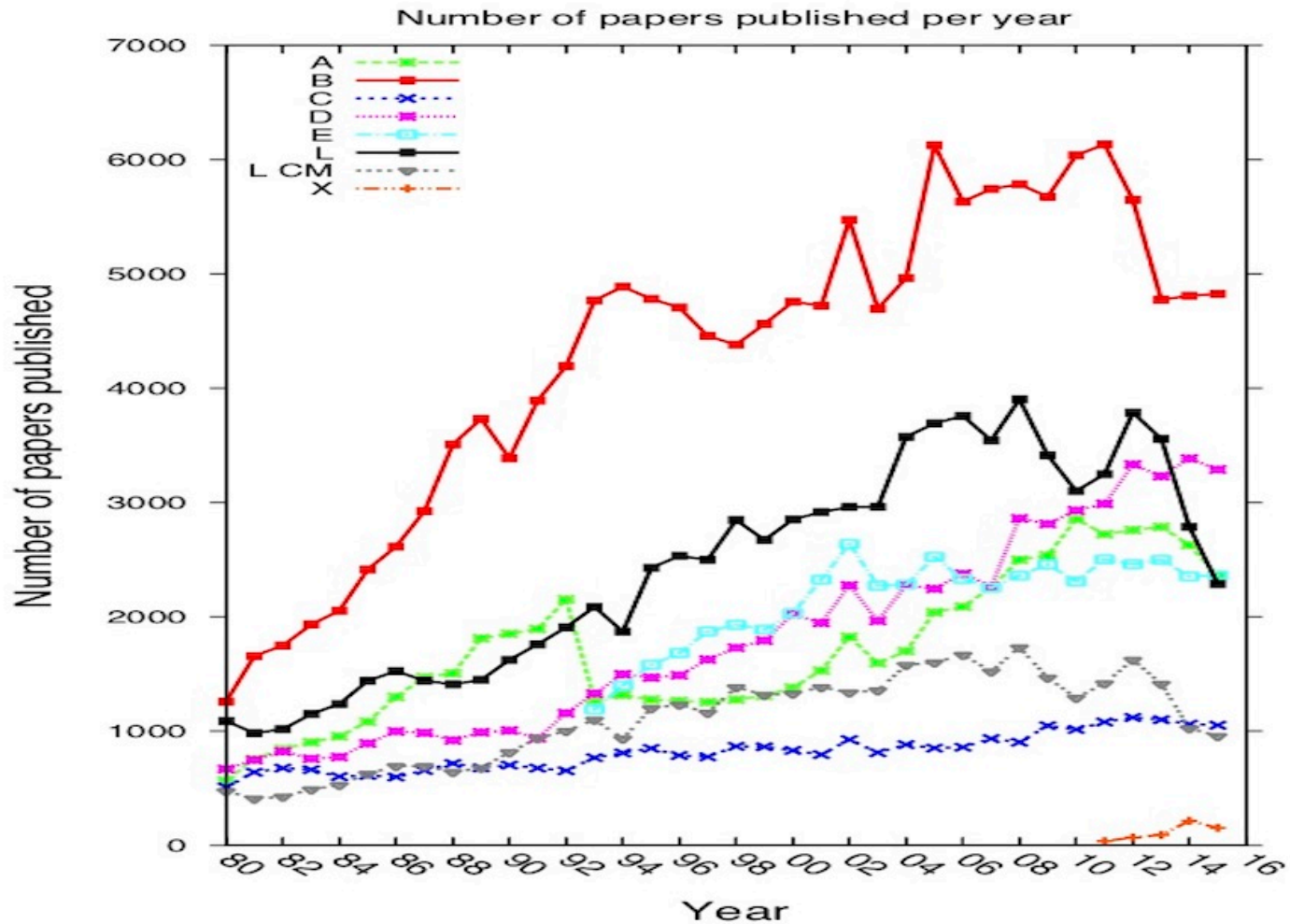
Editors by region:



High quality - broad Impact

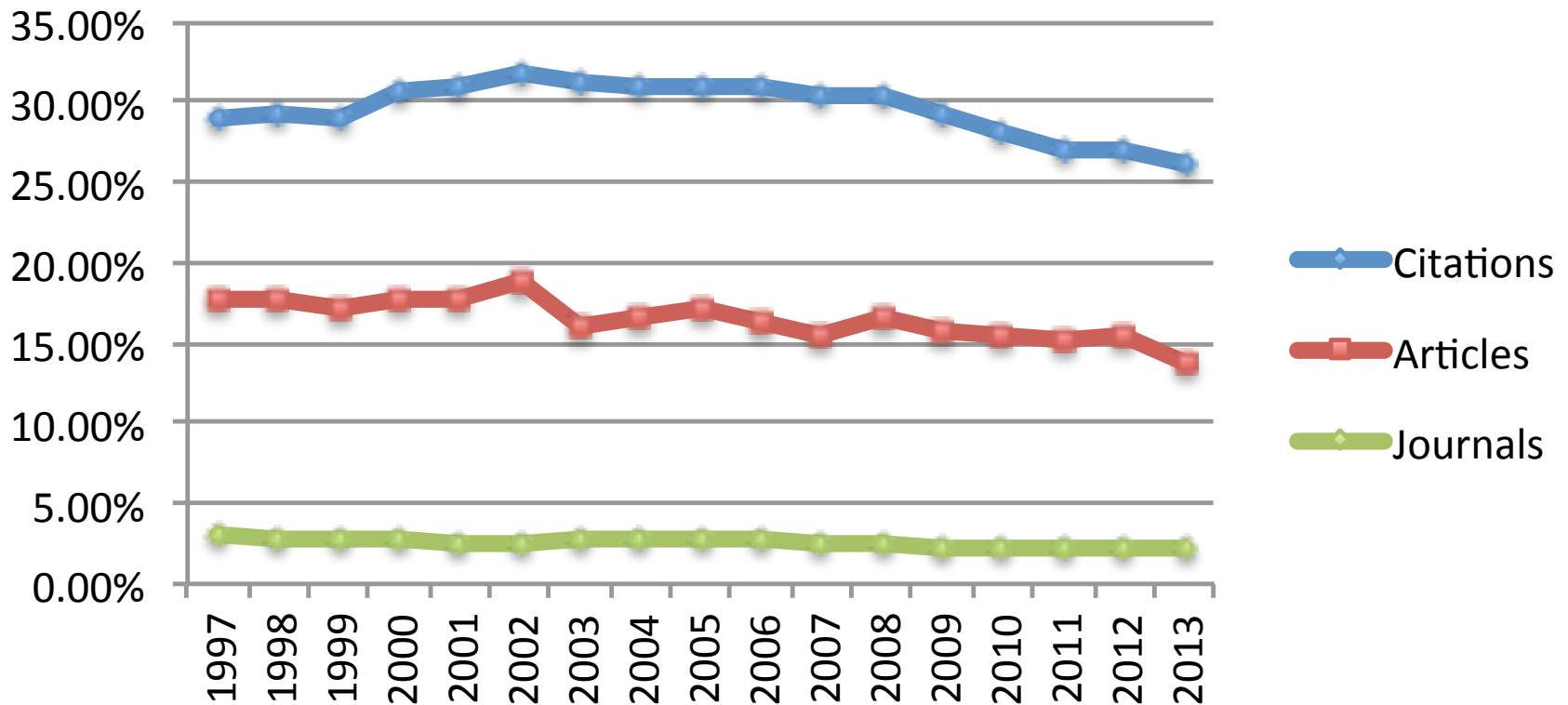
Total Cites to Physics Journals - 2016



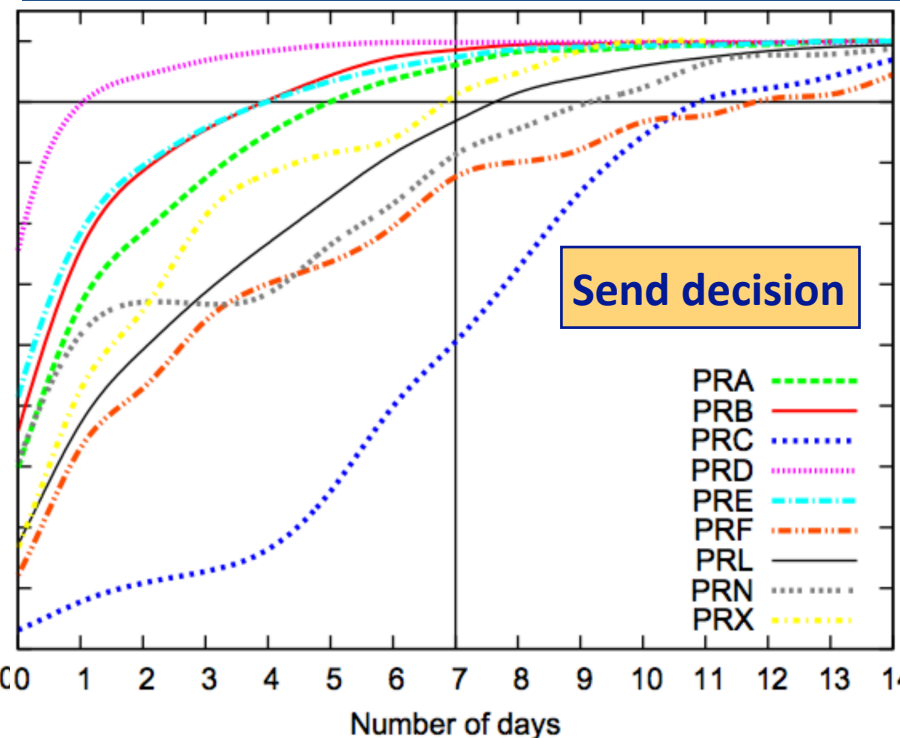
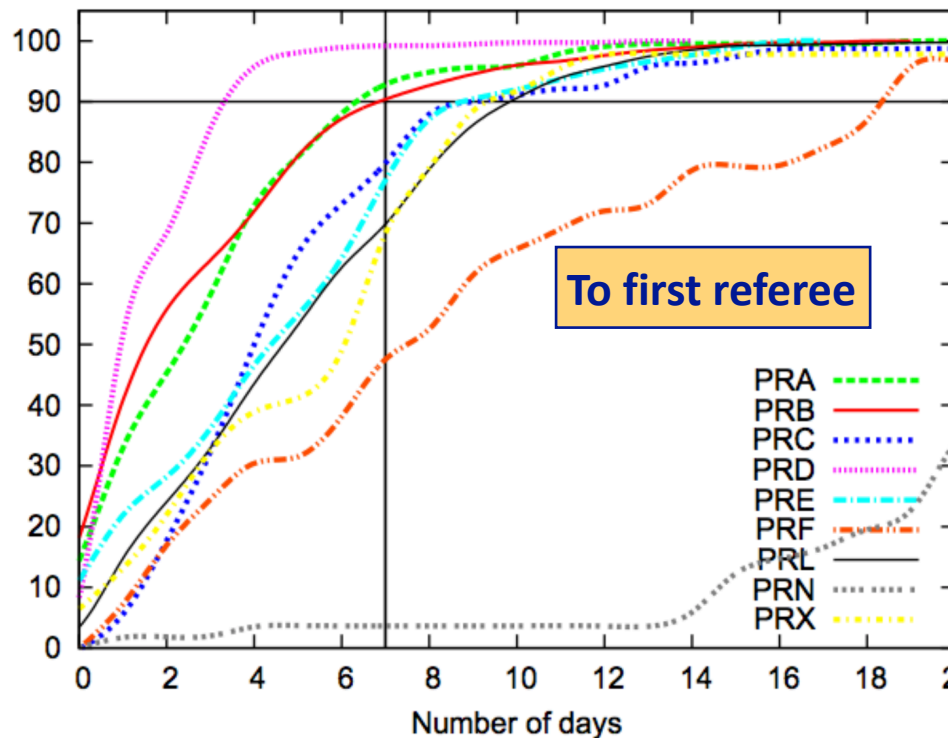


High quality - broad Impact

APS market share of Thomson Reuters "Physics" category for Citations, Articles and Journals



Percentage of papers



Time to acceptance

