

Beyond Open Access: SciPost

Rethinking Academia meeting on

The scientific publishing system and the strive for open accessibility

University of Vienna, 29 April 2019

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*Institute of Physics
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Plan of the talk

- SciPost
- Reforming Publishing
- Plan S
- Outlook

What is it?

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(from preprint to metadata curation)

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Summary?

- Openness
- Quality

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- Reform impact assessment

Genuine Open Access Principles

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[CO]	Community Ownership	The Journal has a transparent community-anchored ownership structure, and is controlled by and responsive to the scholarly community.
[OI]	Open Infrastructure	The infrastructure for operating the Journal belongs to, and is open sourced to the community. The entire technological stack and all operating protocols are documented and made easily transferable between community owners.
[CA]	Copyright to authors	Authors of articles in the Journal retain copyright. The Journal assists authors in protecting their rights in case of infringement.
[OA]	Open Access	All articles are published open access and an explicit open access licence is used which is preferably Approved for Free Cultural Works .
[OC]	Open Citations	The Journal makes its citation metadata openly accessibly by actively participating in the Initiative for Open Citations .
[FF]	Fee Free	Submission, peer evaluation and publication are not conditional in any way on the payment of a fee from authors or their employing institution, or on membership of an institution or society.
[NP]	Non Profit	The Journal publisher's operations are entirely non profit.
[OF]	Open Finances	The Journal's finances are openly published and available for public scrutiny.
[AE]	Academic Editing	The editorial processes of the Journal are run by the community, and all editorial decisions are taken by active professional scientists, using exclusively academic scholarship-based criteria.

Latest Publications

Condensed Matter Physics – Theory

Foliated fracton order from gauging subsystem symmetries

Wilbur Shirley, Kevin Slagle, Xie Chen

SciPost Phys. 6, 041 (2019) · published 2 April 2019

Condensed Matter Physics – Theory

Comparing many-body approaches against the helium atom exact solution

Jing Li, N. D. Drummond, Peter Schuck, Valerio Olevano

SciPost Phys. 6, 040 (2019) · published 1 April 2019

High-Energy Physics – Theory

Comments on one-form global symmetries and their gauging in 3d and 4d

Po-Shen Hsin, Ho Tat Lam, Nathan Seiberg

SciPost Phys. 6, 039 (2019) · published 29 March 2019

[View all Publications](#)

Latest Submissions

Quantum Physics

Reproducing topological properties with quasi-Majorana states

by A. Vuik, B. Nijholt, A. R. Akhmerov, M. Wimmer

Submitted 2019-03-31 to SciPost Physics

Mathematical Physics

Thermodynamic limit of the two-spinon form factors for the zero field XXX chain

by Nikolai Kitanine, Giridhar Kulkarni

Submitted 2019-03-28 to SciPost Physics

Atomic, Molecular and Optical Physics – Experiment

Sub-Doppler laser cooling of ^{39}K via the $4S \rightarrow 5P$ transition

by Govind Unnikrishnan, Michael Gröbner, Hanns-Christoph Nägerl

Submitted 2019-03-26 to SciPost Physics

[View all Submissions](#)

Our future: Plan SciPost

It is time for us to be bold and unleash the next steps in our implementation plans.

[Read more here](#)

Register

Professional scientists (PhD students and above) can become Contributors to SciPost by filling the [registration form](#).

News 📰

SciPost top of the class at Crossref metadata

27 March 2019

An independent study of scientific metadata collections has recently highlighted the quality of our publishing services. According to Dr Habermann (Boulder, Colorado), SciPost has the most complete metadata of all 8670 CrossRef members with current collections of journal articles.

Journals

- SciPost Physics
- SP Lecture Notes
- SP Proceedings

Journals

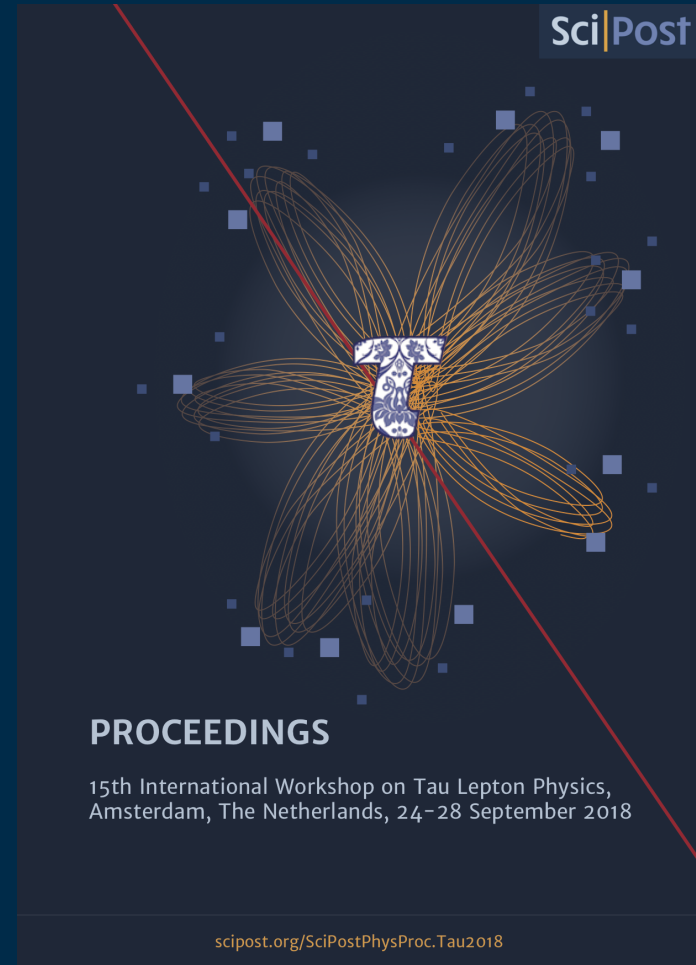
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**302 publications
as of now**

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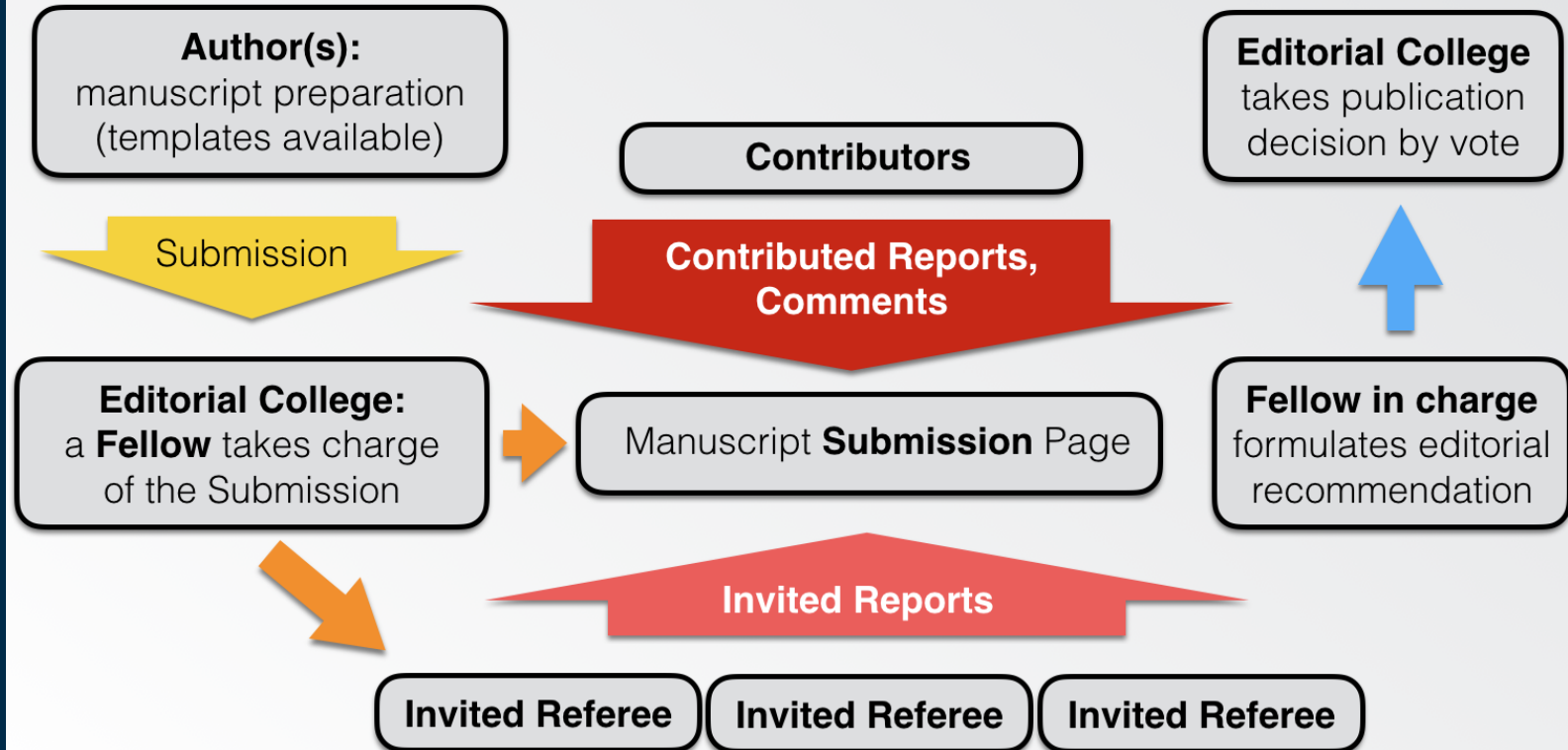
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Editorial flowchart: *peer-witnessed refereeing*

Inspirations: *F1000; ACP, PLOS...*





Welcome to SciPost's code repositories

This site is the anchor for all the code repositories relevant to the operations of the [SciPost.org](#) scientific publication portal.

Interested in contributing?

Are you knowledgeable in modern web technology based on a Django + Postgresql stack?

Do you have working familiarity with academia in general, and scientific publishing in particular?

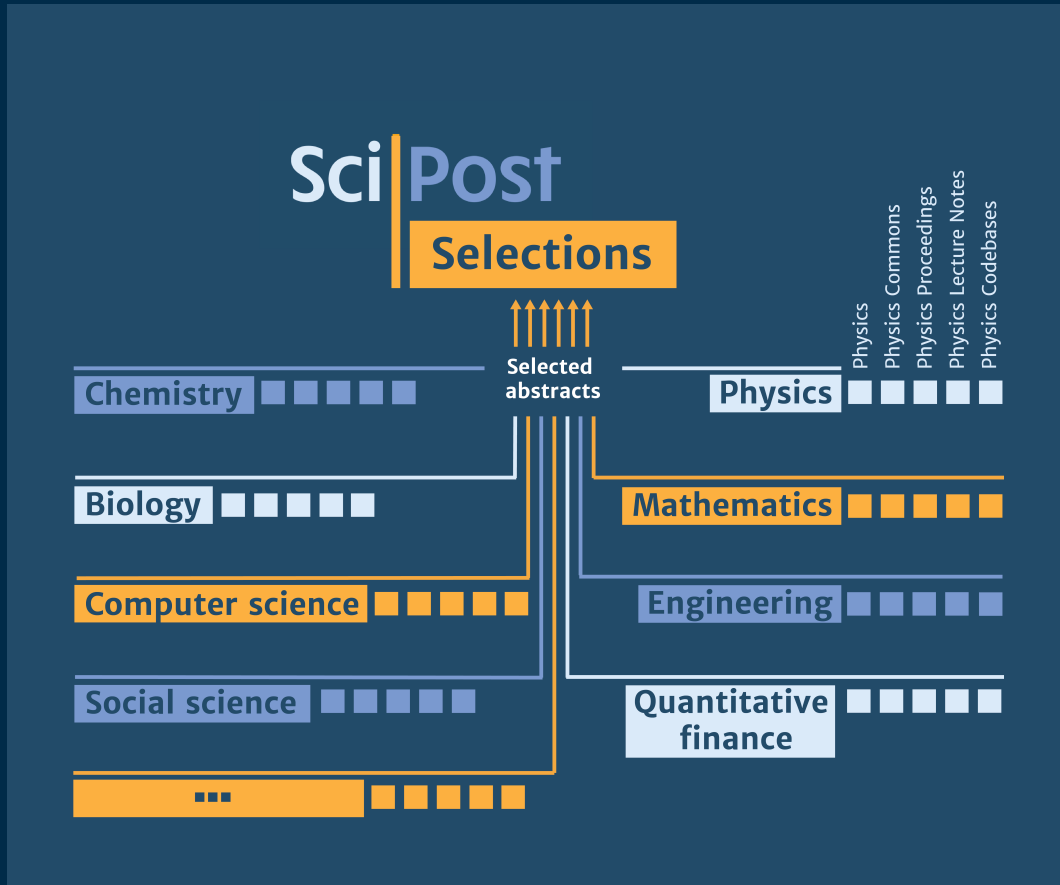
If you would like to join our core team of developers, please send an email to the project leader [Prof. J.-S. Caux](#) with your CV, personal details and motivations.

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Roadmap



- Physics upscaling
- Selections
- Codebases
- Metrics
- Meta services
- Chemistry
- Maths
- Comp. Sci. ?
- [others?]

Let's now talk
business...

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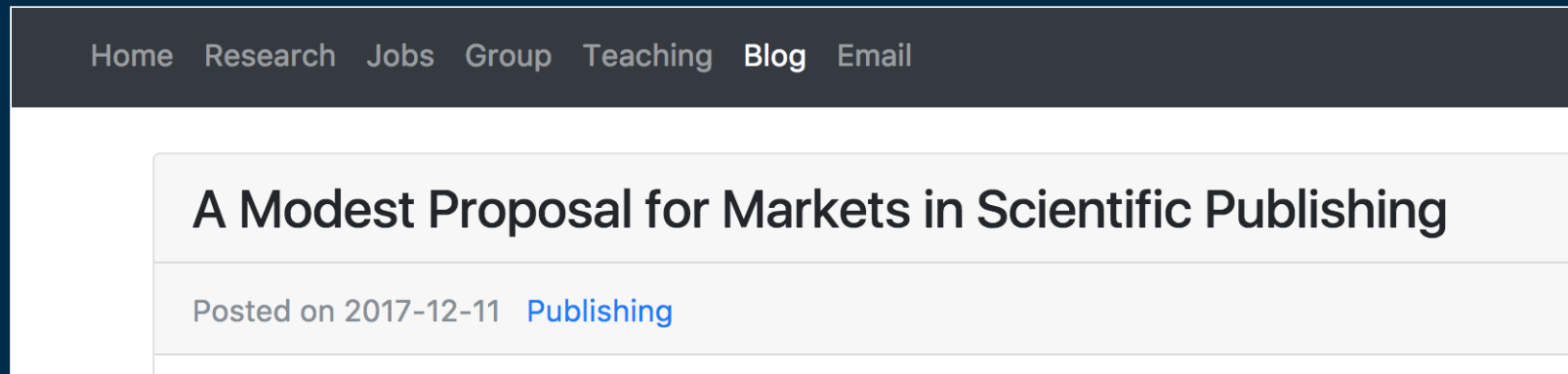
A Modest Proposal for Markets in Scientific Publishing

Posted on 2017-12-11 [Publishing](#)

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**Publishing: prime example of capitalism
propped up by socialism**

Organizations benefitting from our activities

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Organizations

This page lists Organizations which have benefitted from SciPost's publishing activities.

Organizations are linked through appearing in a publication's author affiliations, grant-giving agencies or explicit support acknowledgements.





For each Organization, the NAP (number of associated publications) is given (you can order in decreasing/increasing NAP using the header arrows).

Click on a row to see more details about the Organization, including per-year breakdowns of:

- associated publications
- associated authors
- partnership history

Click on flag to view by Country

[View all](#)

Country	Name [acronym]	NAP  	SciPost sponsor?
 [BE] Belgium	European Commission [EC] Parent of: European Regional Development Fund, European Research Council	77	Not yet
 [BE] Belgium	European Research Council [ERC] Parent: European Commission	60	Not yet



[AT] Austria

Fonds zur Förderung der wissenschaftlichen Forschung / FWF Austrian Science Fund [FWF]

Parent: [Austrian Academic Library Consortium](#)

[Details](#)

[Publications](#)

[Associated Authors](#)

[Support history](#)

Publications associated to this Organization:

2019

- [Sub-Doppler laser cooling of \$^{39}\text{K}\$ via the \$4S \rightarrow 5P\$ transition](#)
by Govind Unnikrishnan, Michael Gröbner, Hanns-Christoph Nägerl,
SciPost Phys. 6, 047 (2019)
- [Quantum null energy condition and its \(non\)saturation in 2d CFTs](#)
by Christian Ecker, Daniel Grumiller, Wilke van der Schee, Shahin Sheikh-Jabbari, Philipp Stanzer,
SciPost Phys. 6, 036 (2019)
- [Search for lepton-flavour-violating decays of the \$Z\$ boson into a \$\tau\$ -lepton and a light lepton with the ATLAS detector](#)
by Wing Sheung Chan on behalf of the ATLAS collaboration,
SciPost Phys. Proc. 1, 048 (2019)
- [Multiloop functional renormalization group for the two-dimensional Hubbard model: Loop convergence of the response functions](#)
by Agnese Tagliavini, Cornelia Hille, Fabian B. Kugler, Sabine Andergassen, Alessandro Toschi, Carsten Honerkamp,
SciPost Phys. 6, 009 (2019)
- [Tangent-space methods for uniform matrix product states](#)
by Laurens Vanderstraeten, Jutho Haegeman, Frank Verstraete,
SciPost Phys. Lect. Notes 7 (2019)

Funding model

Sponsors board

- (Inter)national funding agencies
- Universities & libraries
- Governments
- Foundations
- Benefactors

Sponsors:



THE UNIVERSITY OF
MELBOURNE



MAX PLANCK
digital library



technische universität
dortmund



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA



JÜLICH
Forschungszentrum



Nederlandse Organisatie voor Wetenschappelijk Onderzoek



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DE LORRAINE



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Initiative d'excellence



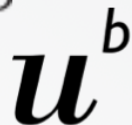
OpenAIRE



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE



VSNU
vereniging van universiteiten
association of universities
THE NETHERLANDS



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University
of Munich



VRIJE
UNIVERSITEIT
AMSTERDAM



Universiteit
Leiden



Austrian Consortium



Der Wissenschaftsfonds.



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SciPost is (over)compliant

... but has not yet received official support from cOAlitionS (*from some members: yes it did*)

C.f. Point 3 of Plan S; *we are hopeful!*

Robert-Jan Smits @ KNAW

Dec. 2018



What about reactions to Plan S?

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My hope remains that scientists will embrace the needed reform rather than undermine it



REDRESSING THE INVERTED PYRAMID OF SCIENTIFIC PUBLISHING

■ Jean-Sébastien CAUX – Institute of Physics, University of Amsterdam – DOI: <https://doi.org/10.1051/epn/2017503>

Scientific publishing is currently undergoing a progressively rapid transformation away from the traditional subscription model. With the Open Access movement in full swing, existing business practices and future plans are coming under increasing scrutiny, while new “big deals” are being made at breakneck speed. Scientists can rightfully ask themselves if all these changes are going the right way, and if not, what can be done about it.

Fortunately, in this day and age, some spheres of human activity remain anchored in rational thinking, evidence-based debate and error-corrected progress. Scientific research undoubtedly fits in this category: few scientists doubt that reason should prevail over nonsense. Yet, when it comes to publishing, the scientific world seems to be bathed in a maelstrom of irrational hogwash. What is going on? What can we do about it?

A business unlike any other
Scientific publishing, as a business, has become a truly unique inverted pyramid construction in which the “customers” pay dearly for accessing the product after actually performing themselves all the irreplaceable, not-doable-by-others steps in the manufacturing process. Historically, this tour-de-force of business abracadabra has been achieved in no small part by exploiting the other dubiously-implemented aspect of publishing,

▲ © iStockPhoto

EPN 48/5&6 25

The driver for change

Although we are far from done (we haven’t even begun discussing impact assessment!), let us end here by performing a simple thought experiment. From next January, for a period of 3 years, imagine that all scientists agreed to exclusively submit their manuscripts to new emerging not-for-profit publishers fulfilling Platinum/Palladium 18-karat and above open access criteria (simultaneously, they would exclusively perform refereeing and editorial work for such publishers). What would happen then? By simply voting with their feet, scientists could exert overwhelming influence and drive the necessary transition to open access through all currently existing or perceived obstacles. Ultimately, the power to enforce change resides in the hands of us scientists: it is up to us to decide the future we want to see in publishing, and to make it happen in the way we want; namely, in the interests of what we love the most and is only too often forgotten in Open Access discussions: science itself. ■

End message:

Scientists: you hold the keys to the future.

With you, full OA will inevitably happen.

Without you, it won't.

So take your responsibilities and just do it.

Thanks!