

**Genuine Open Access:
SciPost**

***Young Italian Quantum Information Science
Conference***

30 September 2020

Jean-Sébastien Caux

*Institute of Physics
University of Amsterdam*



Plan of the talk

- SciPost
- Our infrastructure
- Our team

What is it?

A complete publishing portal
(from preprint to metadata curation)

Who runs it?

Professional scientists
(is and will remain grassroots)

What does it offer?

- Journals
- Commenting
- Metadata services

Summary?

- Openness
- Quality

What does it aim to achieve?

A complete reform of publishing at all levels

- Implement Genuine Open Access
 - two-way: free for readers, free for authors*
- Implement a healthier business model
 - *strict editorial/financial decoupling*
 - *no profit-making on the back of scientists*
 - *consortial model; not based on APCs*
- Modernize the refereeing procedure
 - *open; more credit to referees*
 - *streamline post-publication feedback*
- Reform impact assessment

Genuine Open Access Principles

Genuine Open Access Principles

[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 accessible 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 $4\text{S} \rightarrow 5\text{P}$ 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

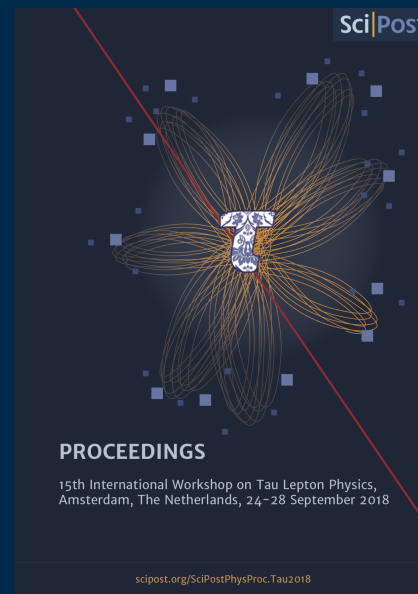
27 March 2019

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.

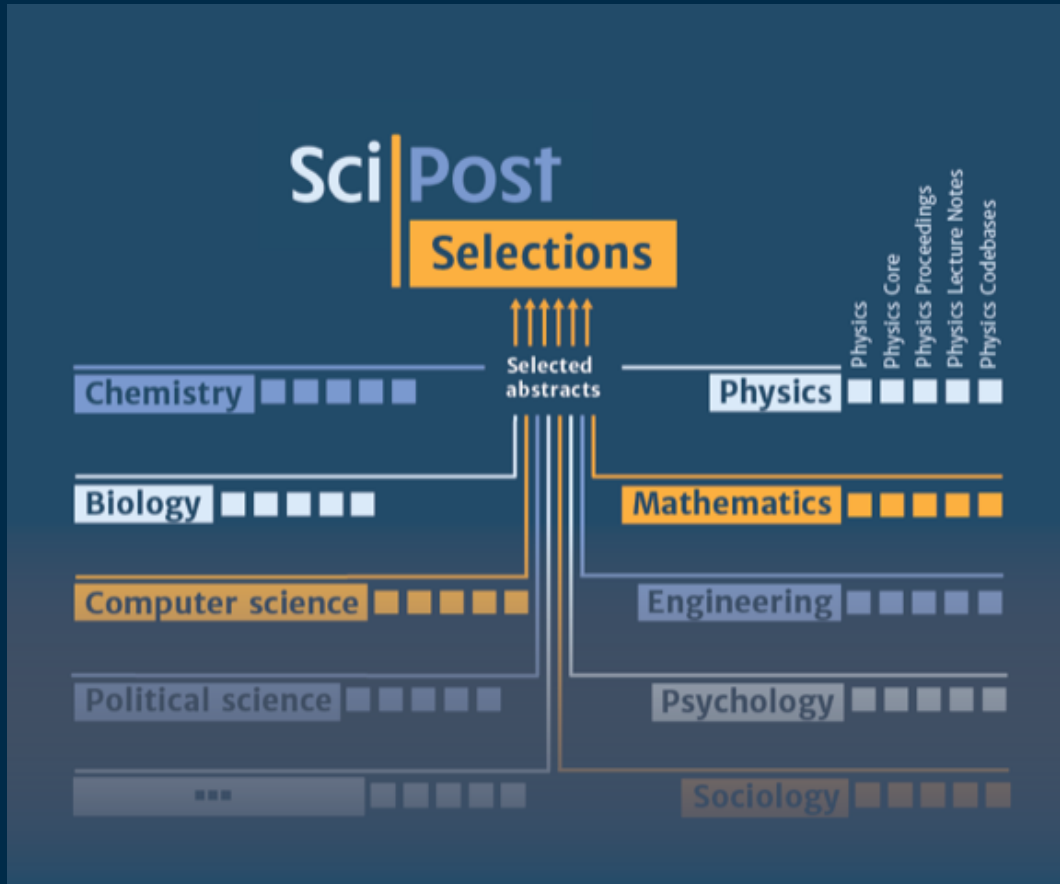
Journals

- SciPost Physics
- SciPost Physics Core
- SP Lecture Notes
- SP Proceedings
- SP Codebases

~640 publications
as of now



Roadmap: immediate future



- Physics upscaling
- Astronomy
- Biology
- Chemistry
- Maths
- Selections
- Codebases
- Metrics
- Meta services

Roadmap: longer term

Branch of Science	Fields <i>(click to see field-specific detailed list)</i>
Multidisciplinary	Multidisciplinary
Formal Sciences	Mathematics Computer Science
Natural Sciences	Physics Astronomy Biology Chemistry Earth and Environmental Sciences
Engineering	Civil Engineering Electrical Engineering Mechanical Engineering Chemical Engineering Materials Engineering Medical Engineering Environmental Engineering Industrial Engineering
Medical Sciences	Basic Medicine Clinical Medicine Health Sciences
Agricultural Sciences	Agriculture, Forestry and Fisheries Veterinary Science
Social Sciences	Economics Geography Law Media and Communications Pedagogy and Educational Sciences Political Science Psychology Sociology
Humanities	Art (arts, history or arts, performing arts, music) History and Archeology Language and Literature Philosophy, Ethics and Religion

SciPost's infrastructure

Based exclusively on Free Software

Tech stack:

All our systems are built from scratch.


We leverage and contribute to FOSS.

- Django *[Python web framework]*
- Postgresql *[database engine]*
- Bootstrap *[frontend]*
- MathJax *[LaTeX javascript engine]*
- Vue.js *[frontend @ scipost-xmeta.org]*
- GitLab *[hub @ scipost-codebases.org]*
- Haystack, Celery, RabbitMQ, Flower...

SciPost's business model

- no APCs, no subscriptions [*Platinum*]
- fully not-for-profit operations [*Palladium*]
- costs: about €400 per publication
A fraction of the current norm!
- consortial model: donations
(inspirations: arXiv, OLH, ...)

Organizations benefitting from our activities

Q Search

[Home](#) [Journals](#) [Submissions](#) [More](#) [About SciPost](#) Login or register

[Organizations](#) / Organizations

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  ^ v	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



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)

The PubFractions System

- Upon publication, authors are asked to apportion a unit of "support credit" between organizations
- These fractions are then linked to the relevant Organizations
- Every year, SciPost computes an average full infrastructure cost per publication
- Organizations can use this to determine their level of support

The PubFractions System

Which Organizations supported the research in this publication?

Please indicate **which Organizations should be credited with supporting the research published in this publication.**

Data provided here is indicative and does not need to be extremely accurate.

Note however that this data **is used** to set the suggested level of support from external Organizations which SciPost needs to remain sustainable.

The Organizations listed here appear as either host institutions for the authors, or as acknowledged funders.

Is the list of Organizations incomplete? [Please email EdAdmin with details.](#)

Organization	Fraction
Erwin Schrödinger International Institute for Mathematics and Physics	0.100
Ghent University	0.200
Government of Canada	0.200
Ministry of Research, Innovation and Science - Ontario	0.200
Agence Nationale de la Recherche	0.100
Laboratoire de Physique Théorique	0.100
King's College London	0.100

These fractions **have been confirmed** by the authors.

PubFractions: visible by sponsors

 [FR] France

Centre National de la Recherche Scientifique / French National Centre for Scientific Research [CNRS]

Parent of: Aix-Marseille University, Laboratoire de Physique Théorique de la Matière Condensée, Université Pierre et Marie Curie, École Polytechnique

Details

Publications & PubFractions

Associated Authors

Support history

Contacts

Events

Publications associated to this Organization (with total PubFractions 

2019 (total pubfractions: 1.900)

- [Conformal field theory on top of a breathing one-dimensional gas of hard core bosons](#)
by Paola Ruggiero, Yannis Brun, Jérôme Dubail,
SciPost Phys. 6, 051 (2019)
Pubfraction: 0.500
- [Equilibrium fluctuations in maximally noisy extended quantum systems](#)
by Michel Bauer, Denis Bernard, Tony Jin,
SciPost Phys. 6, 045 (2019)
Pubfraction: 0.300
- [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)
Pubfraction: 0.000
- [Status of DUNE](#)
by Alessandra Tonazzo on behalf of the DUNE Collaboration,
SciPost Phys. Proc. 1, 043 (2019)
Pubfraction: 0.700
- [Latest results of the OPERA experiment on \$\nu\$ -tau appearance in the CNGS neutrino beam](#)
by N. Agafonova, A. Alexandrov, A. Anokhina, S. Aoki, A. Ariga, T. Ariga, A. Bertolin, C. Bozza, R. Brugnera, A. Buonauro, S. Buontempo, M. Chernyavskiy, A. Chukanov, L. Consiglio, N. D'Ambrosio, G. De Lellis, M. De Serio, P. del Amo Sanchez, A. Di Crescenzo, D. Di Ferdinando, N. Di Marco, S. Dmitrievsky, M. Dracos, D. Duchesneau, S. Dusini, T. Dzhatdoev, J. Ebert, A. Ereditato, J. Favier, R. A. Fini, F. Fornari, T. Fukuda, G. Galati, A. Garfagnini, V. Gentile, J. Goldberg, S. Gorbunov, Y. Gornushkin, G. Grella, A. M. Guler, C. Gustavino, C. Hagner, T. Hara, T. Hayakawa, A. Hollnagel, K. Ishiguro, A. Iuliano, K. Jakovcic, C. Jollet, C. Kamiscioglu, M. Kamiscioglu, S. H. Kim, N. Kitagawa, B. Klicek, K. Kodama, M. Komatsu, U. Kose, I. Kreslo, F. Laudisio, A. Lauria, A. Longhin, P. Loverre, M. Malenica, A. Malgin, G. Mandrioli, T. Matsuo, V. Matveev, N. Mauri, E. Medinaceli, A. Mereaglia, S. Mikado, M. Miyanishi, F. Mizutani, P. Monacelli, M. C. Montesi, K. Morishima, M. T. Muciaccia, N. Naganawa, T.

**Organizations which support us
are on our
*Sponsors board***

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

Sponsors

Best is to go to the current list of sponsors at
scipost.org/sponsors/

Austrian Consortium

FWF

Der Wissenschaftsfonds.



The SciPost Team

J-S Caux	Chairman; lead developer
Joost van Mameren	Secretary
Jasper van Wezel	Treasurer
Paula Perez	Editorial Admin
Sergio E. Tapias Arze	Editorial & Sponsors Assistant
Jan Willem Wijnen	General strategy
Teun Zwart	Developer (Xmeta)

Job openings: check https://scipost.org/careers/job_openings