

Open Science and its impact on Mathematics

Collaborations in Algebra, Representation theory and Ethics

Florence Codet (ENS de Lyon), Alain Marois (ENS de Lyon), Filippo A. E. Nuccio (Inria and UJM)

ENS de Lyon – 27 octobre 2025

Introduction : “Academic Publishing” by



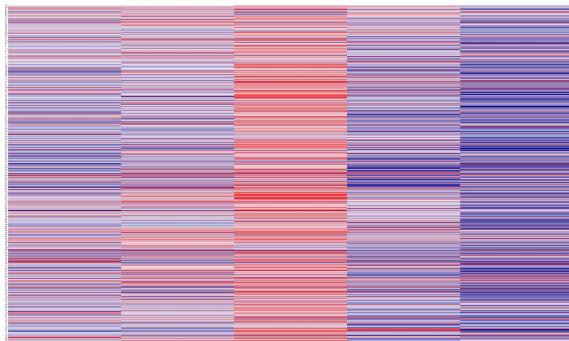
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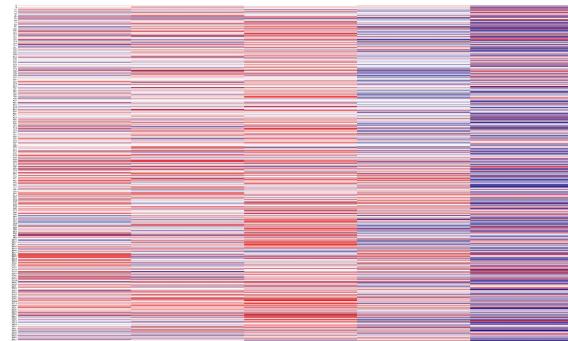


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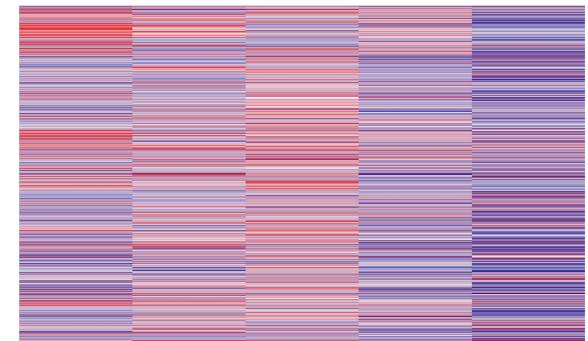
Impact factor inflation: policies can have an effect



Biology



Mathematics



Physics

IF evolution by 2-year steps: period 2014-2024 in Biology, Mathematics and Physics

Journals subscription costs



Press Release 2017-07-27

Journal of Algebraic Combinatorics flips to Fair Open Access.¹

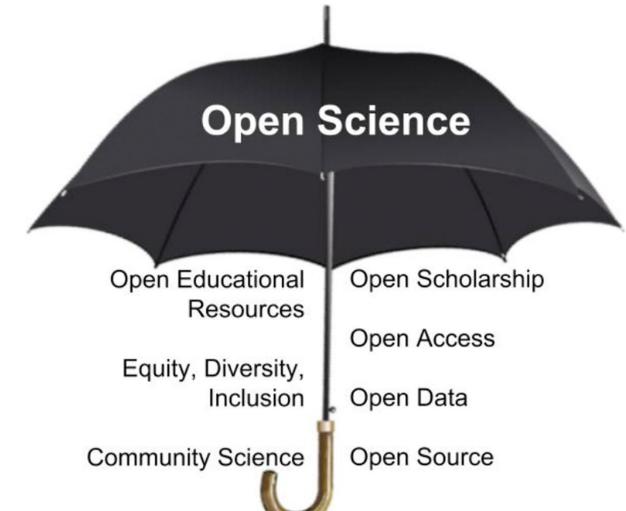
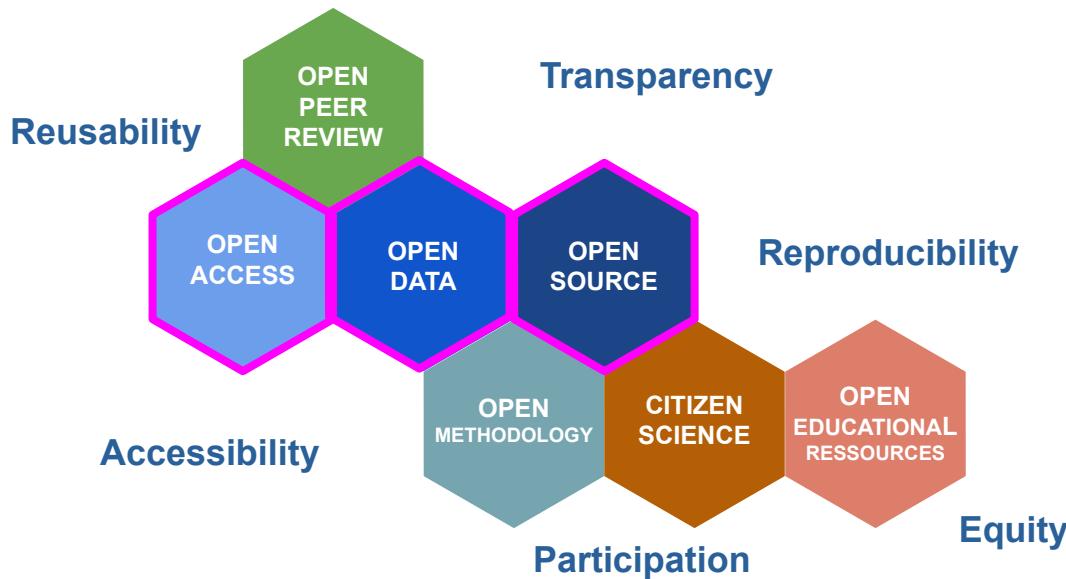
At the end of June 2017, the four editors-in-chief of the *Journal of Algebraic Combinatorics* informed Springer that they will not renew their contracts, which terminate on 31 December 2017. Nearly all of the editorial board members will also resign, to form the editorial board of a new journal that will be called *Algebraic Combinatorics*, run according to Fair Open Access Principles. The new journal *Algebraic Combinatorics* will be up and running very shortly, with interim editors-in-chief Satoshi Murai and Vic Reiner. The transition to Fair Open Access is supported by the organisation *Mathematics in Open Access* (MathOA).



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Open Science : what are we talking about ?

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R.Champieux; D. Robinson

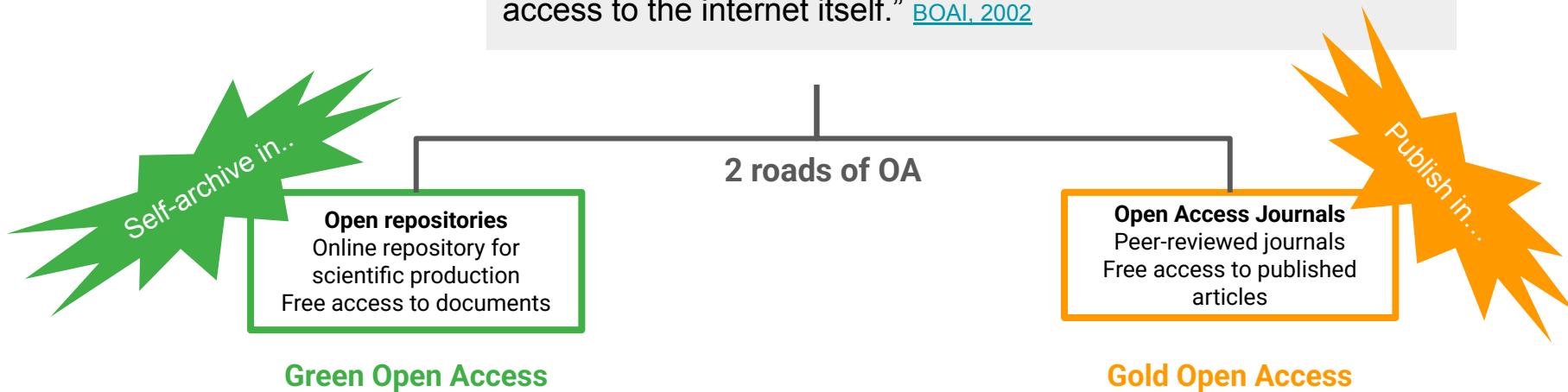


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Open Access : The devil is in the details #1

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The critical group of a combinatorial map

2025 | Merino, Criel; Moffatt, Iain; Noble, Steven
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Prismatic F -crystals and Lubin-Tate (φ_q, Γ) -modules

Samuel Marks
Harvard University, Cambridge, USA
ORCID

Abstract
Let L/\mathbb{Q}_p be a finite extension. We introduce L -typical prisms, a mild generalization of prisms. Following ideas of Bhatt, Scholze and Wu, we show that certain vector bundles, called Laurent F -crystals, on the L -typical prismatic site of a formal scheme X over $\text{Spf } \mathcal{O}_K$ are equivalent to \mathcal{O}_L -linear local systems on the generic fiber $X_{\bar{\kappa}}$. We also give comparison theorems for computing the étale cohomology of a local system in terms of the cohomology of its corresponding Laurent F -crystal. In the case $X = \text{Spf } \mathcal{O}_K$ for K/L a p -adic field, we show that this recovers the Kisin-Ren equivalence between Lubin-Tate (φ_q, Γ) -modules and \mathcal{O}_L -linear representations of G_K , as well as the results of Kupferer and Venjakob for computing Galois cohomology in terms of Herr complexes of (φ_q, Γ) -modules. We can thus regard Laurent F -crystals on the L -typical prismatic site as providing a suitable notion of relative (φ_q, Γ) -modules.

 Documenta Mathematica

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(φ, Γ)-modules
Lubin-Tate formal groups

Mathematics Subject Classification
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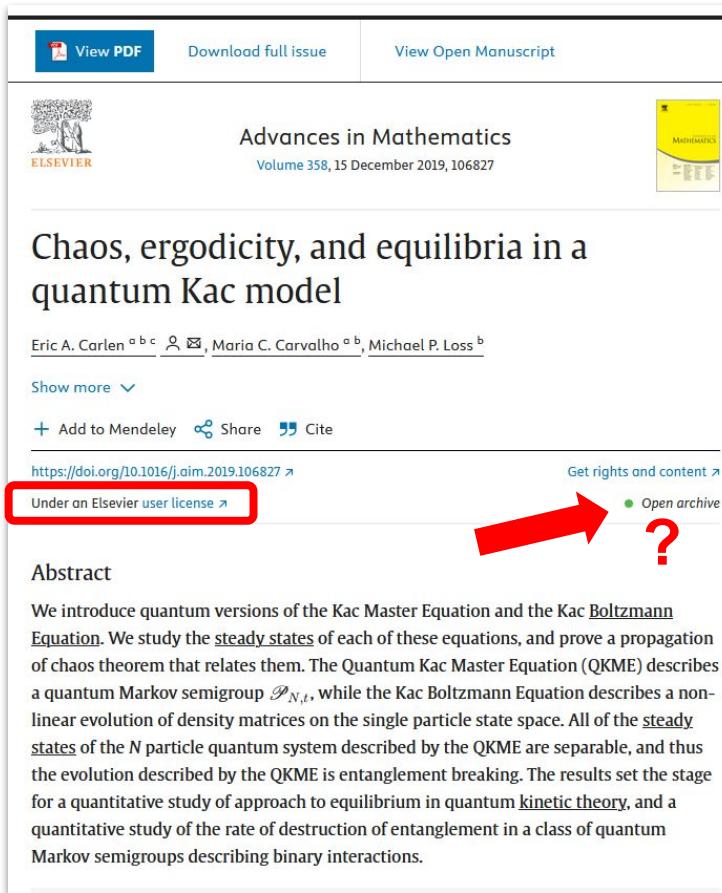
<https://doi.org/10.4171/dm/1009>

Open Access : The devil is in the details #2

The screenshot shows a Cambridge Core journal article page. At the top, there is a navigation bar with the Cambridge University Press logo, a search bar labeled "Discover Content", and a "Products and Services" dropdown. Below the navigation bar, the Cambridge Core logo is followed by "Browse", "Services", and "Open research" dropdowns. On the right side of the header, it says "Authenticated ENS de Lyon". The main content area shows the title of the article: "Two dynamical approaches to the notion of exponential separation for random systems of delay differential equations". Below the title, there are several subject category buttons: "Functional-differential and differential-difference equations", "Smooth dynamical systems: general theory", "Infinite-dimensional dissipative dynamical systems", "Ergodic theory", "Random dynamical systems", and "Stochastic analysis". The text "Published online by Cambridge University Press: 24 February 2025" is displayed. Below this, the authors' names are listed: Marek Kryspin, Janusz Mierczyński, Sylvia Novo, and Rafael Obaya. A "Show author details" link is also present. At the bottom of the page, there is a "Welcome to RightsLink" section with a note about the Creative Commons CC-BY-NC-ND license. A red arrow points from the left margin towards this RightsLink section.

<https://doi.org/10.1017/prm.2025.15>

Open Access : The devil is in the details #3



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Advances in Mathematics
Volume 358, 15 December 2019, 106827

Chaos, ergodicity, and equilibria in a quantum Kac model

Eric A. Carlen ^{a b c}, Maria C. Carvalho ^{a b}, Michael P. Loss ^b

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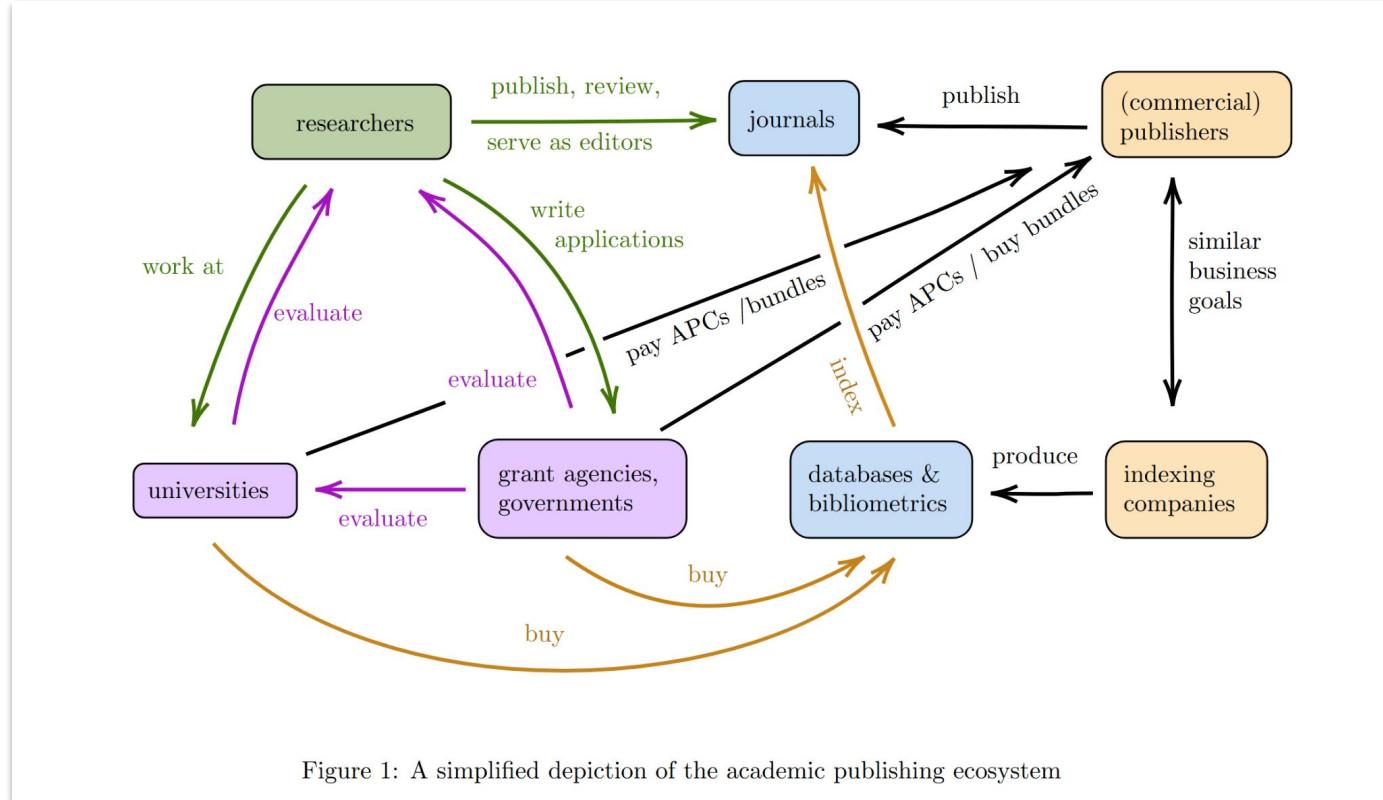
We introduce quantum versions of the Kac Master Equation and the Kac Boltzmann Equation. We study the steady states of each of these equations, and prove a propagation of chaos theorem that relates them. The Quantum Kac Master Equation (QKME) describes a quantum Markov semigroup $\mathcal{P}_{N,t}$, while the Kac Boltzmann Equation describes a non-linear evolution of density matrices on the single particle state space. All of the steady states of the N particle quantum system described by the QKME are separable, and thus the evolution described by the QKME is entanglement breaking. The results set the stage for a quantitative study of approach to equilibrium in quantum kinetic theory, and a quantitative study of the rate of destruction of entanglement in a class of quantum Markov semigroups describing binary interactions.

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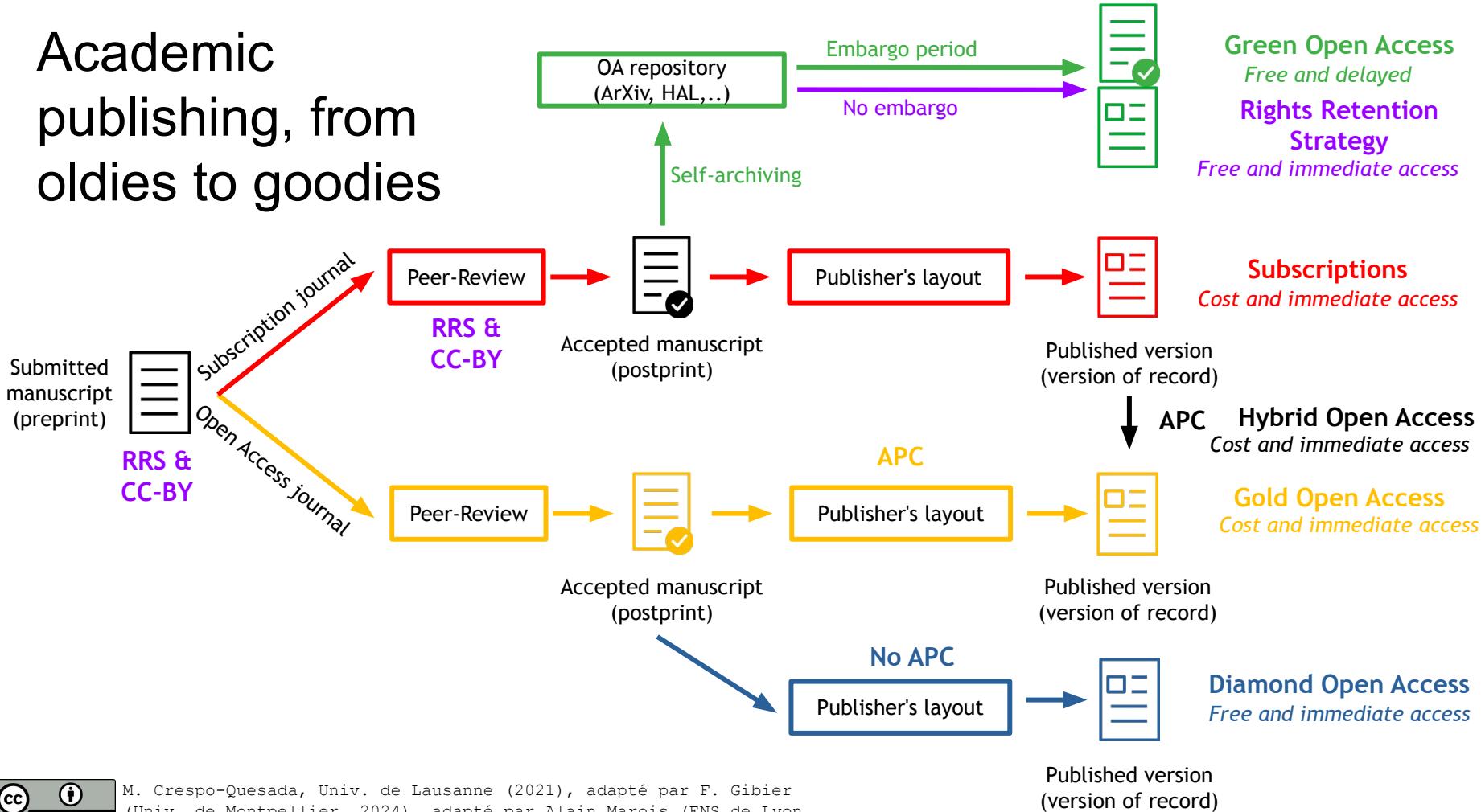
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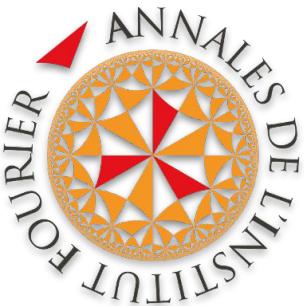
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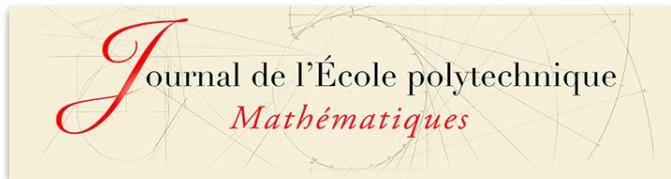
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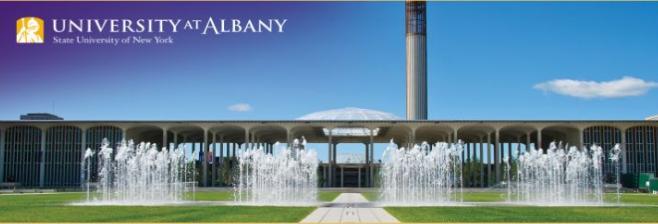


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Publishing in Diamond OA : examples of overlay journals

The screenshot shows the homepage of the Annals of Formalized Mathematics. At the top is the journal logo, which consists of a stylized orange 'A' and 'M' followed by the text 'ANNALS OF FORMALIZED MATHEMATICS'. Below the logo is a navigation bar with links: Home, Aims and Scope, Browse all volumes, Editorial boards, Instructions for authors, Publishing policies, Credits, and My Account. Under the navigation bar, a specific article is highlighted: 'Joël Riou - FORMALIZATION OF DERIVED CATEGORIES IN LEAN/MATHLIB' (DOI: afm.13609). The article summary states: 'Formalization of derived categories in Lean/mathlib'. It lists the author as 'Joël Riou' and the institution as 'Université Paris-Saclay'. The abstract describes the formalization of derived categories in the mathematical library of the proof assistant Lean 4. The article is published in Volume 1, July 15, 2025. Below the article details are download links: 'Download article' and 'See the document's page on HAL'. At the bottom of the page, there is a footer with publication information: 'Published on: July 15, 2025', 'Accepted on: February 11, 2025', 'Submitted on: May 17, 2024', 'Keywords: MSC 2020: 18G80, 18G15, 18G40, 18E35, 68V20, [MATH-MATH-CT]Mathematics [math]/Category Theory [math.CT], [INFO-INFO-LO]Computer Science [cs]/Logic in Computer Science [cs.LO]', and 'Licence: Attribution 4.0 International (CC BY 4.0)'.

<https://doi.org/10.46298/afm.13609>

The screenshot shows the homepage of the Épjournal de Géométrie Algébrique. The header features the journal logo, which includes a blue stylized 'E' and 'G' followed by the text 'ÉPIJOURNAL DE GÉOMÉTRIE ALGÉBRIQUE'. The background of the header is a dark blue mosaic pattern. Below the header, there is a blue button labeled 'Accueil'. To the right of the button, the word 'Accueil' is repeated. There are three menu items with arrows: 'Comité éditorial', 'Conseils pour soumettre', and 'A propos de la revue'. Below these menu items, a text block provides information about the journal: 'L'Épjournal de Géométrie Algébrique est une revue scientifique à comité de lecture fondée en 2016. La sélection des articles suit un processus éditorial classique (évaluation des soumissions par le comité éditorial sur avis de référents). Les articles sont publiés en français (avec un abstract en anglais) ou en anglais.' Another text block below states: 'Les domaines couverts par la revue sont la géométrie algébrique au sens large, y compris la géométrie complexe et arithmétique, la théorie des groupes algébriques et des représentations.' At the bottom, there is a link: 'Pour consulter la composition du comité éditorial de la revue, cliquez ici.'

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Business model	Nonprofit (usually)	Commercial. Sells job posting services, hopes to sell data	Commercial. Sells ads, job posting services
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[K. Fortney, J. Gonder, 2015](#)



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[COMETS, CNRS, 2018](#)

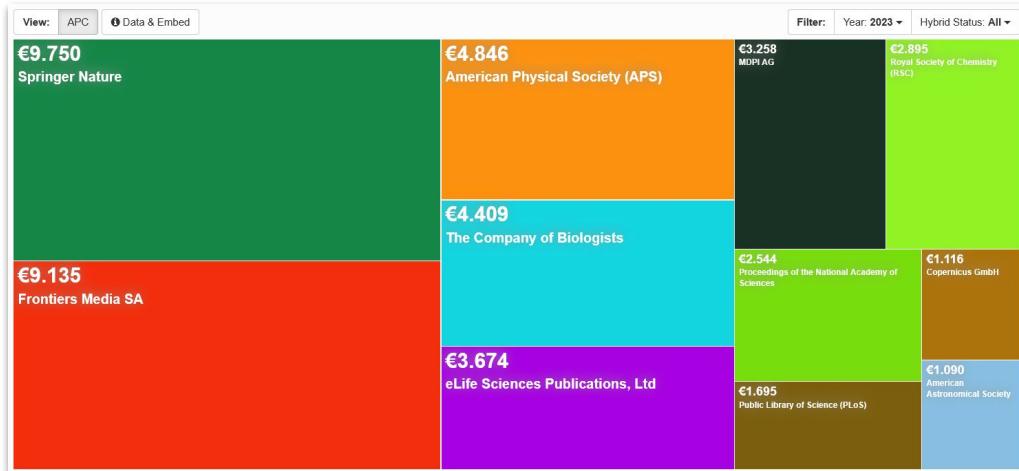


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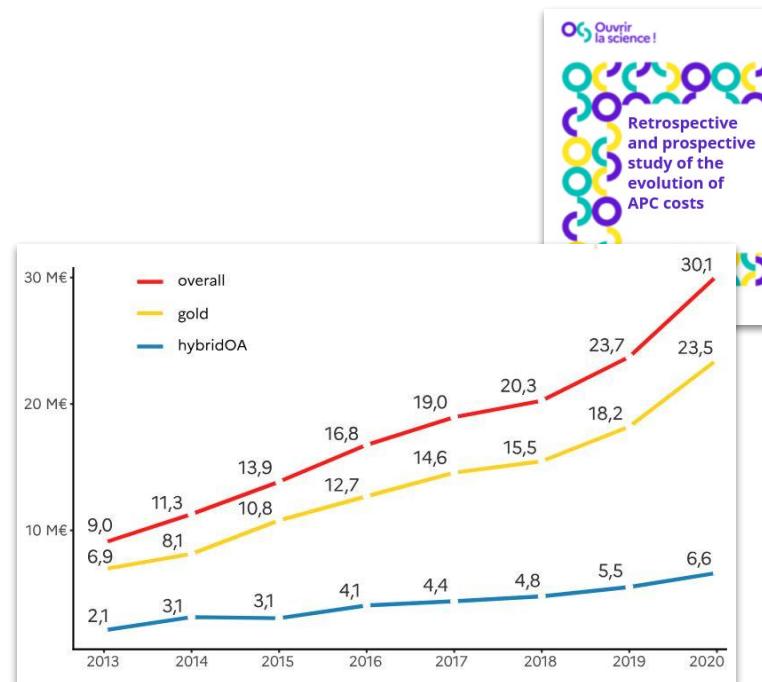
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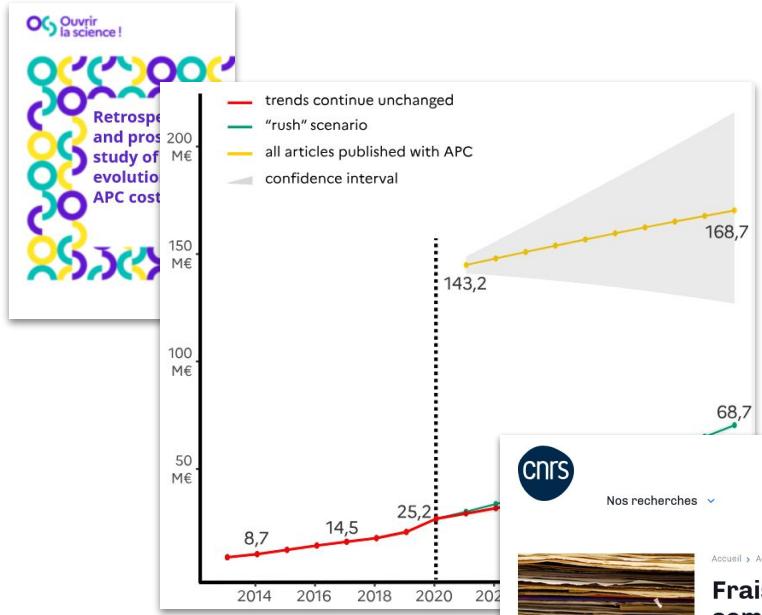


Cumulative APC costs for the ENS de Lyon over the year 2023, hybrid and pure gold OA cumulated, [OpenAPC oct. 2025](#)



Evolution of APCs payed by french corresponding authors from 2013 to 2020, [A. Blanchard, D.Thierry, M. van der Graaf, 2021](#)

APC and costs : an unsustainable model ?



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Predatory journals, Predatory conferences



“Predatory journals and publishers are entities that prioritize self-interest at the expense of scholarship and are characterized by false or misleading information, deviation from best editorial and publication practices, a lack of transparency, and/or the use of aggressive and indiscriminate solicitation practices.” Grudniewicz & al. Nature, 2019 [10.1038/d41586-019-03759-y](https://doi.org/10.1038/d41586-019-03759-y)

Resources to help you verify journals and conferences :

[Think. Check. Submit](#) or [Compas to Publish](#) → for journals

[Think. Check. Attend](#). → for conferences

[Cabells Scholarly Analytics](#) → whitelist/blacklist (via library)

Ask your supervisor or the **university library** for advice

Read the [Recommendations of the IMU and the ICIAM on Fraudulent Publishing](#) (sept. 2025)



Predatory criteria v1.0

Some infrastructures for O. A. in Mathematics

→ Mathdoc :



Mathdoc

- ◆ [Centre Mersenne](#), [Numdam](#), [Geodesic](#)

→ [EPISciences](#)



- ◆ [EPIGA](#), [Annals of Formalized Mathematics](#), and well beyond Math!

→ [PCI](#) (not very much in Math... *yet!*)

→ [zbMATH Open](#)



Some organisations supporting O. A. in Mathematics

- [MathOA](#) 
Mathematics in Open Access

- [KOALA](#) 
KONSORTIALE OPEN ACCESS LÖSUNGEN
AUFBAUEN — AUSBAUEN — VERANKERN

- [The Combinatorics Consortium](#)



- [The Association for Mathematical Research](#)



- ...

The S2O model

→ What is this?

SUBSCRIBE TO OPEN

→ Who uses it?

◆ [MSP](#)  mathematical sciences publishers

◆ [SMF](#)  Société
Mathématique
de France

◆ [EMS-Press](#) 

→ Is it Diamond Open Access?

Discussion : “academic dream” & open access week 2025 theme



<https://www.openaccessweek.org/theme>



Who owns our knowledge?
Кому належать наші знання?
हमारे ज्ञान का स्वामतिव किसिका है?
لمن تنسیب معارفنا و مفاتیحها؟
Qui contrôle nos connaissances?
我々の知識は誰のものなのか?
¿A quien le pertenece nuestro conocimiento?

October 20-26, 2025
#OAWeek

Thank you!

Questions?



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