

The centre Mersenne for Diamond Open Access

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Mathdoc Université Grenoble Alpes & CNRS (France)

> ECM, Sevilla 2024



Plan of the talk

- The centre Mersenne
- 2 Staff & governance
- Services
- Business model
- 5 A focus on 2 examples
- 6 Recent projects & perspectives

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The centre Mersenne is a public comprehensive Diamond Open Access publishing infrastructure for scientific publications.

It provides editorial teams with

- a publishing platform for hosting and dissemination of open access research publications;
- a range of editorial and technical tools and services to help to manage the journal workflow (peer-review process, publication...).

The centre Mersenne has been launched in 2018 with 10 mathematics journals



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Supporting institutions

The centre Mersenne is developed by Mathdoc, a Support and Research unit of Centre National de la Recherche Scientifique and Grenoble University.



Mathdoc's mission is to develop services towards the math community:

- maker of Numdam (French digital maths library);
- maker of Cedram 1995-2018 (publishing platform for french mathematics journals, extended to the centre Mersenne)
- partner of EuDML (European digital mathematics library).
- maker of Geodesic (Mathdoc digital mathematics library).



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What kind of publications?

- Research journals and proceedings;
- newly created or already existing (conversion);
- of all scientific disciplines in the fields of STEM (science, technology, engineering and mathematics), with a strong kernel in maths (around 2/3);
- compliant with best editorial practices;
- formatted with LATEX ideally;
- published in Diamond Open Access (no charge to read, no charge to publish)

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Trajectory

- 2018 10 journals, 210 articles published (7 000 pages). Mathematics.
- 2019 13 journals, 270 articles published (9 000 pages).
 + Geomechanics
- 2020 21 journals, 600 articles published (12 700 pages) + Chemistry, Physics, Biology, Earth Sciences.
- 2021 22 journals, 884 articles published (17 834 pages) + PCI's disciplines
- 2022 23 journals, 872 articles published (18 804 pages)
- 2024 24 journals, + Computer Sciences.



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The staff

The team is composed of Mathdoc staff: currently 14 people \simeq 8 FTE dedicated to the centre Mersenne:

- 1 coordinator
- 1 editor
- 1 managing editor
- 2 typesetters LATEX/XML,
- 6 IT developers,
- + administrative support,
- scientifically led by 2 mathematicians.
- 10 members hold a permanent position.
- $(+\ 2\ freelances\ for\ part\ of\ the\ typesetting\ activity).$



Governance

- The scientific council
 - evaluates candidate journals;
 - advises on orientations and priorities;
 - comprises 8 to 12 scientists (mainly mathematicians, but not only!) assisted by a pool of experts.
- The steering committee
 - takes advice from the scientific council:
 - decides on priorities and allocates resources;
 - comprises Mathdoc directors and representatives of Mersenne's supporting institutions



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Editorial services

The essential editorial services systematically provided:

- Online publication and dissemination of articles on the centre Mersenne platform:
 - creation of a specific and customised website for each publication
 - attribution of DOI (Digital Object Identifier) with Crossref
 - crosslinking with reference databases, interoperability, an OAI-PMH server...
 - long term preservation through CLOCKSS
 - plagiarism detection
 - Statistics "counter", cited-by tool
- Creation of a customised LATEX template
- Installation and maintenance of Open Journal System (OJS):
 - customisation of a dedicated instance adapted to the editorial board's evaluation process;
 - maintenance and support;
 - documentation and training.



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Optional services

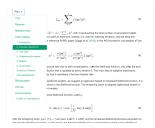
- LATEX typesetting and layout editing;
- copyediting, proofreading
- managing editor, journal workflow assistance;
- printing;
- ..



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Some journals websites











Browsing

Browsing a journal website and accessing articles...





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Searching

Searching articles in a journal website...





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Journal layout: Physics



Comptes Rendus Physique

Yosef Nir and Vincenzo Vagnoni CP violation in B decays

Volume 21, Issue 1 (2020), p. 61-74. https://doi.org/10.5802/crphys.11

Part of the Thematic Issue: A perspective of High Energy Physics from precision

Guest editors: Stéphane Montell (Clermont Université, CNRS/IN2P3, Clermont-Ferrand) and Marie-Hélène Schune (Université Paris-Saclay, CNRS/IN2P3, Orsavi

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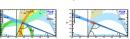


Figure 1. The constraints in the (ρ, η) plane from deft) all relevant processes, and (right) from CP-vtolating asymmetries in 8 decays only (31).

4. The CKM mechanism and CP violation in beauty

The three-generation SM violates CP. Among the parameters of the SM Lagrangian, there is a single phase (or, equivalently, a single imaginary parameter), which appears in V, the CKM matrix that parametrises the W^{\perp} interactions with $\Pi_{IJ}d_{IJ}$ pairs (where $u_{1,2,3}=u,c,t$, and $d_{1,2,3}=d,s,b$)

 $\mathcal{L}_{W,q} = -\frac{g}{R}\overline{u}_{LL}V_{LJ}\mathcal{W}^{+}d_{LJ} + h.c.$ The CKM matrix depends on three real and one imaginary parameters. The Wolfenstein parametrisation is particularly useful

$$V = \begin{pmatrix} 1 - \frac{1}{2}\lambda^2 & \lambda & A\lambda^2(\rho - \ln) \\ -\lambda & 1 - \frac{1}{2}\lambda^2 & A\lambda^2 \\ (1 - \rho - \ln) & -\lambda^2 & 1 \end{pmatrix}.$$
(13)
The fact that all quark flavour-violating processes and all CP -violating processes depend on only

three real (λ, A, ρ) and one imaginary (by) parameters makes the (C)KM mechanism of flavour and CP violation subject to stringent tests. Here, CP-violating processes play a special role. The fact that CP is a good symmetry of the strong interactions implies that CP asymmetries dominated by interference of decays with and without mixing are subject to a uniquely clean theoretical interpretation. Thus, for example, within the SM

$$\mathcal{F}m(\lambda q x_2) = \frac{2\eta(1-\rho)}{\eta^2 + (1-\rho)^2}$$
, (14)
with hadronic uncertainties entering only at the level of a few permit corrections.

in the literature, one often defines $\rho + i\eta = -(V_{ad}V_{ab}^*)/(V_{cd}V_{cb})$ which is valid to all orders in λ . The parameters ρ and η approximate ρ and η to order λ^2 . The various constraints in the (ρ, η) plane are presented in Figure 1. CP asymmetries in B decays are playing a major role: d_{WK_0} , d_{WK} and the CP asymmetry in $B \rightarrow DK$ decays constrain with impressive accuracy the angles

$$\alpha = \arg\left(\frac{V_{cd}V_{cb}^*}{V_{cd}V_{cb}^*}\right), \quad \beta = \arg\left(\frac{V_{cd}V_{cb}^*}{V_{cd}V_{cb}^*}\right), \quad \gamma = \arg\left(\frac{V_{cd}V_{cb}^*}{V_{cd}V_{cb}^*}\right). \quad (15)$$
respectively. As there is a region in the (ρ, η) plane that is consistent with all measurements, the CRM mechanism of Eavour violation and the KM mechanism of Eavour violation provide a consistent

5. Probing new physics with CP violation in B decays The consistency of the measured CP violation in B decays with the SM predictions leads to strong constraints on new physics, in the previous section, we assumed that the various flavour violating and CP-violating observables are accounted for by the CKM matrix, and tested the

C.R. Physique, 2020, 21, er 1, 61-74

explanation of all data.



Journal layout: Chemistry



Comptes Rendus Chimie

I. Brahmi, S. Nasri, H. Saidi, K. Aouadi, R. Sanderson, M. Winter, D.

Cruickshank, S. Naimudin and H. Nasri Optical and photoelectronic properties of a new material:

Optoelectronic application Volume 23, Issue 6-7 (2020), p. 403-414. https://doi.org/10.5802/crchim.20

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Les Comples Rendus, Chimie sont membres du Centre Mersenne pour l'édition scientifique ouverte www.centre-mersenne.org

I. Embrot et al

Table 3. Electrical parameters of the [TiO/Pt/Al] system

 $\frac{\text{Comptex}}{\text{[Zn(TFMPP](4,4'-btpy)]-2(4,4'-btpy}-2H_2O} = \frac{I_5 \text{ (A)}}{6.027 \times 10^{-9}} = \frac{\phi_b \text{ (V)}}{1.25^{33}}$



Figure 4. Schematic representation of the porphyrin macrocycle of the [Zn(TFMPP)(4,4'btps)| complex showing the displacements of each atom from the 24-atom mean plane in

units of 0.01 A.

[Zn^{II}(TFMPP)(HMTA)], we note that our complex (I) has a high barrier height ds compared to the related zinc-HMTA derivative. This is most probably due to the aromatic ligand 4,4'-bpy for (I), which can prevent the distribution of the charge contrary to the case of the related species containing the non-aromatic ligand HMTA.

It is the same for the saturation current 6.027 × 10-9 for our zinc(II)-4.4'-bits derivative. which is very low compared to that of the related [Zn^{tt}(TFMPP)(HMTA)] complex whose value is equal to 6.57 × 10-6. These results show that the nature of the actal ligand plays a very important role in the optoelectronic properties for this type of porphyrin

The variation of I as a function of V has been represented in a log-log plot to better study the mechantsm of electrical conductance across the junction

For complex (I), as shown by this figure, there are different regions where the current varies as a function of the potential according to the relation $I = V^m$ where m represents the slope for each region and provides information about the type of conduction mechanism.

The slope value is close to unity at low voltage defining the ohmic region. In this region, the presence of a small amount of interface barrier binders. charge injection. In this case, the density of thermally excited load carriers is insufficient and trap levels are empty [32]. The current density is given by (2):

$$J_{\Omega} = q \cdot p_0 \cdot \mu \cdot \frac{V}{d}$$
. (2)

Here q is the electronic charge, μ is the charge mobility, p_n is the free carrier density, d is the film thickness and V is the applied voltage.

The slope value is approximately 1.6 at medium voltage in the case of our zinc porphyrin complex, where the voltage follows the power law dependence (I-V), which is related to the space-charge limited current mechanism (SCLC). Moreover, the density of the injected charges from electrodes increases. Stnce the applied voltage passes through the transition voltage V = 0.53 V, the density of the injected charges will dominate the transport capacity of the |Zn(TFMPP)(4,4'-btpy)|-(4,4'-btpy)-2H2Olayer. In this regime, the current density varies following equation (1):

$$I_{SCLC} = \frac{9}{8} \epsilon \cdot \mu_{eff} \cdot \frac{V^2}{d^3}.$$

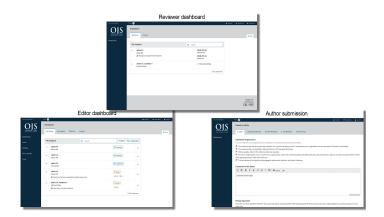
Here ϵ is the material permittivity (assumed to be $4\epsilon_0$, where ϵ_0 is the vacuum permittivity) and μ_{eff} is the effective carrier mobility equal to $\theta u \cdot \theta$, which is the free charge fraction with $\theta = p/(p + p_s)$. Parameters p and p, represent the free and trapped chargecarrier densities, respectively; d is the film thickness

and V is the applied voltage. According to the SCLC model (3), μ_{eff} for the film containing complex (I) was calculated with a value of 0.45 (10-5 cm2/Vs). This result is compa rable to the literature value of about 10-5 cm2/Vs for the 2,7-distyrylcarbazole p-type species [33-35].

C R Charle NAM 10 WET 400 AM

(Figure 9).

Managing submissions - OJS





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Managing submissions - PCJ







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Average production cost of an article at centre Mersenne (2020 - 2021)

Production cost per article or page (estimate)

- Production cost per article: 810 € (all journals) /780 € (when not including Comptes Rendus) / 140 € for Peer Community Journal
- Production cost per page: 41 € (all journals)/ 28,5 € (when not including Comptes Rendus)

This does not take into account: volunteer work of researchers, editorial management, . . .



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Business model - general ideas

- Our model is Diamond OA: No fees for the authors, no fees for the readers.
- Our business model must be scalable and sustainable to welcome 1 to 3 new journals per year.



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Business model - general ideas

- Our model is Diamond OA: No fees for the authors, no fees for the readers.
- Our business model must be scalable and sustainable to welcome 1 to 3 new journals per year.
- So we need to recover at least running costs from the journal or from the organisations that support it.
- But we want these costs to remain very low when not zero, especially for our journals that have few financial means.



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Business model - revenues

- General running of the infrastructure and essential publication services
 - Almost completely supported by CNRS and Univ. Grenoble (staff, costs)
 - + a modest journal annual subscription (not applicable for journals directly supported by CNRS)
 - + funding from (essentially french) institutions, foundations, libraries;
 - + national and European grants (ex: EOSC);
- Recurrent costs associated to optional services, proportional to the volume published: covered by invoicing the journal or its supporting institution at almost cost price or by specific institutional supports. (not applicable for journals directly supported by CNRS)



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centre Mersenne fees

The fees are official and transparent (auditable). They depend on the services you request and are broken down as follows:

Initial cost of installation

- Without dedicated OJS instance: 3 175 €
- With dedicated OJS instance: 4 487 €

Annual maintenance and support

- Basic maintenance without OJS: 1 066 €
- Full maintenance: 2 429 €

Optional services

- Typesetting (simple layout, maths): 7,5 € per page
- Typesetting word with HTML: 11,6 € per page
- Corrections / revisions: 7,6 € per page
- Editorial managing
- Printing...



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A journal conversion: Algebraic Combinatorics

- History and setting: in 2018, almost all the editors of the *Journal of Algebraic Combinatorics* published by Springer resign from that journal. They found and become editor of the new one published by centre Mersenne, under the new name: *Algebraic Combinatorics*.
- Volume: 700 pages in 2018, more than 1300 pages in 2019, 2020, 1100 pages in 2021, 1400 in 2022
- Legal publishers: association MathOA until 2021, The Combinatorics Consortium since 2022.
- Financial support: French libraries network, Dutch national research institute for mathematics and computer science, MathOA...



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Another journal conversion: Les Comptes Rendus de l'Académie des sciences

- Les Comptes Rendus de l'Académie des sciences is the journal of the French Academy of sciences created in 1835 by the physicist François Arago. It is divided in seven titles: Mathematics, Physics, Biology, Mechanics, Chemistry, Earth Sciences, Paleontology.
- 1997-2019: Published by Elsevier.
- In 2020, under the initiative of Etienne Ghys, Les Comptes Rendus de l'Académie des sciences becomes a Diamond journal published by the centre Mersenne.
- Volume: around 5000 pages per year.
- Legal publisher & owner of the title: Académie des sciences
- Financial support: CNRS in 2020, Académie des sciences...



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A common challenge for Académie des sciences and centre Mersenne

- Doubling the publication volume of the centre Mersenne.
- New disciplines → new purposes, new formats (上TEX or word with HTML), indexation to new databases, new templates.
- New metadata: Orcid identifiers, Equal Contrib...
- For the centre Mersenne, need to scale-up our administrative and financial procedures (public markets for suppliers, diffusion agreements with journals, official pricing).
- For the Académie des sciences, need to find a recurrent funding for the production costs.
- This transition has revitalized the journal and led to new projects: semi-automatic translation, on-line comments (on-going)



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On-going projects

- Semi-automatic translation of articles: an online interface enabling scientists
 to translate automatically and post-edit articles of the *Comptes Rendus de l'Académie des sciences*. Available already for chemistry, biology, earth sciences, see next slide. Will be extended to maths as soon as HTML format available.
- Full-text for maths articles: $\Delta T_E X$ and ΔW ord $\Delta T_E X$ and $\Delta T_E X$ and $\Delta T_E X$ online. Should be available by the end of 2024.



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Semi-automatic translation: focus on the project

Project sponsored by the French Ministry of Higher Education and Research and the French Ministry of Culture. Two-fold objective:

- Establishing a bilingual scientific corpus that could be utilized as a dataset to train a public AI;
- Developing a comprehensive computer-assisted translation software set up on the publication website of the *Comptes Rendus de l'Académie des sciences*.



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Features

- Principle: machine translation via DeepL possible, and systematically followed by human voluntary or professionnal post-editing of articles.
- Pivot format: HTML.
- Publication of the translation in PDF (via an intermediate LATEX format) and HTML with a CC-BY licence next to the original work.

Means: 1 professional translator and 1 IT developer during 12 months, 1 freelance translator, + Mersenne staff

Main difficulty overcomed: math formulas are not handled by computer-assisted translation softwares.



Figure: Authentification, automatic translation then human post-editing







Figure: Compilation, cover sheet and publication

Les traductions des Comptes Rendus Géoscience Sciences de la Planète Exploration du lien entre les grands séismes et le transport magmatique au début de la crise volcanosismique de Mayotte. Article tradait par Olivier Labbe Béaxes' : Carchipel des Comones était généralement considéré comme une région medérément siemique. Carcendars, dessuis mai 2018, une siemiché inhabémelle a été observée au large de la cite est de l'île de pennett pas comosponate a rouvertate ou a ta termetate des augues, car ses marcos de naptare observeoi naggéreut des taux d'éconéement du magna irréalisables. Étant donné que les formes d'onde peuvent être suggested des taxes d'economient du magena instantation, taxet demine que los termes et come persent etc. colatinement bien expliquées arect des ouurces de cisalliement par, nous potudians que les composantes mon DC sont tels publishéement des attrifacts das à des briefregrenités structurelles peu profundes non. Arido original : Catalina Moralos-Vállez[®], Zachario Dupusol[®] et Luis Rivera[®] Exploring the link between large earthquakes and magna transport at the unset of the Mayotte valcano sebanie crbils Valune 564, Special Issue 52 (2022), p. 197-152 https://doi.org/10.5002/crpice.150 Part of Special hour: The Manorer science volcanic crisis of 2918-2021 in the Comorns archipelage This translation is Bormed under the Conserve Commons Arramanana & Develop theory for http://conservecommons.org/former-by/4.6/

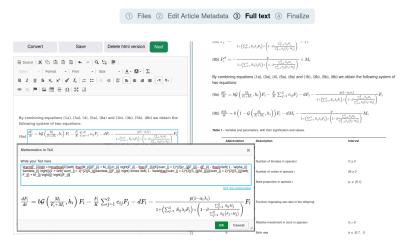




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Word to HTML conversion

Figure: HTML editor integrated in the Peer Community Journal workflow





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Conclusion: Main challenges for the centre Mersenne

- Face the increasing volume of publication since 2018.
- Adapt to new editorial practices because new scientific disciplines involved.
- Adapt our platform to new formats (not all the journals in LATEX).
- Develop efficient and ethical services (semi-automatic translation, full-text...).
- Achieve the procedures and contracts taking into account the public administration constraints.
- Consolidate its business model to reinforce the sustainability.
- Hire and train people, minimize the outsourcing for typesetting.
- Convince the community that the centre Mersenne is a nice, reliable and long-term publishing solution to create or to convert journals in open account

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Thanks!



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Marin Mersenne (1588-1648) has been nicknamed "the secretary general of the republic of scientific letters", as he acted as a hub for scientific information of his time, just before the advent of journals and academies.



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A quotation (Baillet, 1691)

le commerce continuel qu'il entretenoit avec tous, et tous avec luy. C'etoit a luy qu'ils envoyoient leurs doutes et leurs difficultez pour etre proposees par son moyen a ceux dont on attent les solutions ; et lorsqu'il les avoit reçues, il les leur renvoyoit faisant a peu pres dans le corps de toute la republique des Lettres la fonction que fait le coeur dans le corps humain a l'egard du sang. [...] Les Italiens le regardoient aussi bien que nous comme le grand negociant des Lettres, qui fournissoit les provisions aux autres, et qui scavoit exiger d'eux ce qu'ils etoient capables de produire.



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Marin Mersenne (1588-1648) has been nicknamed "the secretary general of the republic of scientific letters", as he acted as a hub for scientific information of his time, just before the advent of journals and academies.

A quotation (Baillet, 1691)

Mersenne was like the center of all scholars by the continual commerce he maintained with all, and all with him. It was to him that they sent their doubts and their difficulties to be proposed by his means to those whose solutions were awaited; and when he had received them, he sent them back to them, having almost in the body of the whole Republic of Letters the function which the heart makes in the human body with regard to blood. The Italians regarded him, as we do, as the great mediator of the Letters, who furnished provisions to others, and was able to demand of them what they were capable of producing.



Marin Mersenne (1588-1648) has been nicknamed "the secretary general of the republic of scientific letters", as he acted as a hub for scientific information of his time, just before the advent of journals and academies.

A portrait



