



# **PUBLISH PORTFOLIO**



Raphaël Tournoy <a href="CCSD/CNRS">CCSD/CNRS</a>





## What is Episciences? www.episciences.org

- Platform for publishing OA scientific journals
  - Any disciplines
  - New or flipping journals
- Scientific communities can create and operate high-quality OA journals
- Diamond Open Access publishing





### **Episciences for the scientific communities**

- Tools to save time for readers, researchers and editorial teams
- End-to-end compatible with FAIR principles
- Operated by researchers and their scientific communities
- Cost efficient, independant from the publishers
- Hosted in Europe on public infrastructure





## An overlay (epi) journal model

- Operating on top of OA repositories e.g. <u>HAL</u>, <u>arXiv</u>, <u>CWI</u>, <u>Zenodo</u>,
- Peer-review preprints (single-blind review)
- All versions are always available online
  - During the whole publication process
  - If the journals disappears or moves
  - Follow the scientific discourse

```
English [edit]

Etymology [edit]

From Ancient Greek ἐπί (epí, "on top of").

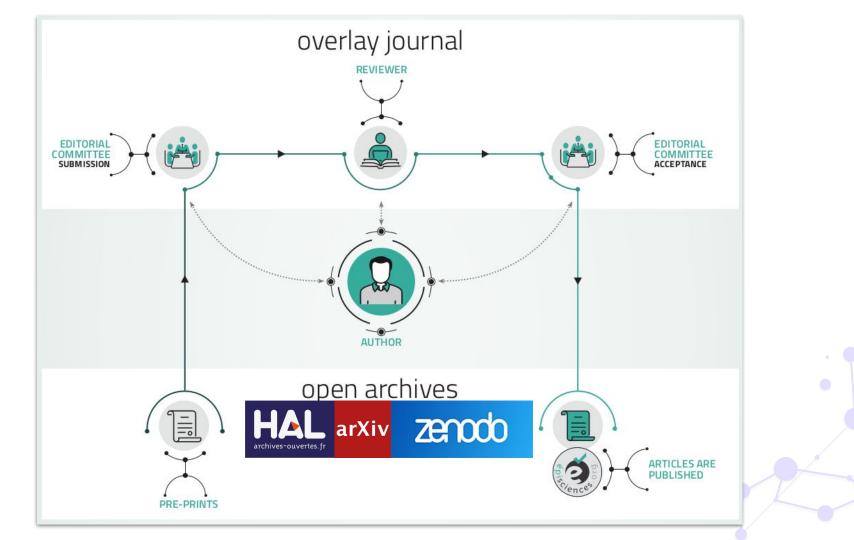
Prefix [edit]

epi-

1. Above, over, on, in addition to
2. (chemistry) Denotes an epimeric form
```

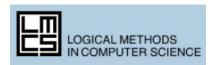






# How to use Episciences

 Each journals has its own domain name
 Example with:



### **Hosted on:**

https://lmcs.episciences.org/







# 1. Submit your preprint

On a repository, e.g. arXiv:

https://arxiv.org/abs/1802.05734v1

arXiv.org > math > arXiv:1802.05734v1

Search...

Help | Advanc

#### Mathematics > Logic

[Submitted on 15 Feb 2018 (this version), latest version 23 Apr 2020 (v10)]

#### Writability and reachability for alpha-tape infinite time Turing machines

Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machines with tape length  $\alpha$  (denoted  $T_{\alpha}$ ) were introduced by Rin to strengthen the  $\omega$ -tape machines of Hamkins and Kidder. It is known that for some countable ordinals  $\alpha$ , these machines' properties are quite different from those of the  $\omega$ -tape case. We answer a question of Rin about the size of the least ordinal  $\delta$  such that not all cells are halting positions of  $T_{\delta}$  by giving various characterizations of  $\delta$ . For instance, it is the least ordinal with any of the properties (a) there is a  $T_{\alpha}$ -writable real that is not  $T_{\delta}$ -writable for some  $\alpha < \delta$ , (b)  $\delta$  is uncountable in  $L_{\lambda_{\delta}}$ , or (c)  $\delta$  is a regular cardinal in  $L_{\lambda_{\delta}}$ , where  $\lambda_{\delta}$  denotes the supremum of ordinals with a  $T_{\delta}$ -writable code of length  $\delta$ . We further use these characterizations together with an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is closed under the function  $\alpha \mapsto \Sigma_{\alpha}$ , where  $\Sigma_{\alpha}$  denotes the supremum of the ordinals with a  $T_{\alpha}$ -accidentally writable code of length  $\alpha$ .

Subjects: Logic (math.LO); Logic in Computer Science (cs.LO)

Cite as: arXiv:1802.05734 [math.LO]

(or arXiv:1802.05734v1 [math.LO] for this version)

#### **Submission history**

From: Philipp Schlicht [view email]

[v1] Thu, 15 Feb 2018 19:55:02 UTC (23 KB)



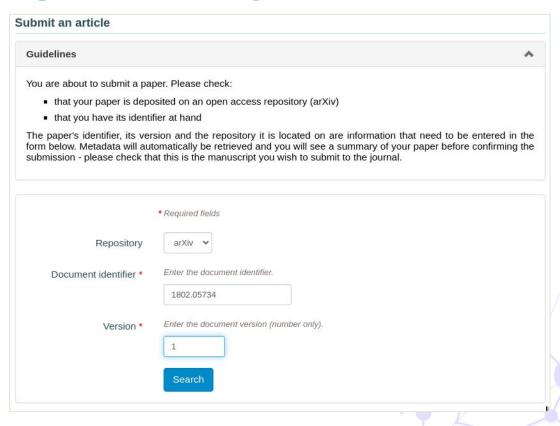


# 2. Import your preprint on a journal

with your preprint ID:

1802.05734v1

On a journal, eg <u>LMCS</u> for this example







### Metadata retrieved with arXiv's APIs

arXiv.org > math > arXiv:1802.05734v1

Search...

Help | Advance

Mathematics > Logic



Merlin Carl ; Benjamin Rin ; Philipp Schlicht - Reachability for infinite time Turing machines with long tapes

### Reachability for infinite time Turing machines with long tapes

Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_{\alpha}$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_{\alpha}$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ . We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\xi < \alpha$ , there is a  $T_{\xi}$ -writable but not  $T_{\alpha}$ -writable subset of  $\omega$ . (b) There is a gap in the  $T_{\alpha}$ -writable ordinals. (c)  $\alpha$  is uncountable in  $L_{\lambda_{\alpha}}$ . Here  $\lambda_{\alpha}$  denotes the supremum of  $T_{\alpha}$ -writable ordinals, i.e. those with a  $T_{\alpha}$ -writable code of length  $\alpha$ .

We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_{\alpha}$ , where  $\Sigma_{\alpha}$  denotes the supremum of the  $T_{\alpha}$ -accidentally writable ordinals.

#### Reachability for infinite time Turing machines with long tapes

Authors: Merlin Carl; Benjamin Rin; Philipp Schlicht

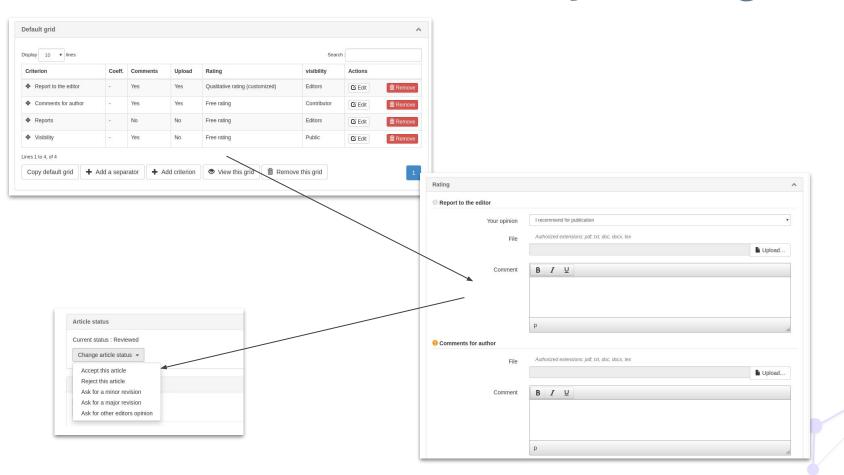
Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_{\alpha}$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_{\alpha}$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ . We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\xi < \alpha$ , there is a  $T_{\xi}$ -writable but not  $T_{\alpha}$ -writable subset of  $\omega$ . (b) There is a gap in the  $T_{\alpha}$ -writable ordinals. (c)  $\alpha$  is uncountable in  $T_{\alpha}$ -writable subset of  $T_{\alpha}$ -writable ordinals, i.e. those with a  $T_{\alpha}$ -writable code of length  $T_{\alpha}$ . We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $T_{\alpha}$ , where  $T_{\alpha}$  denotes the supremum of the  $T_{\alpha}$ -accidentally writable ordinals.

Keywords: Mathematics - Logic, Computer Science - Logic in Computer Science





# 3. Peer review based on journal grid



### **Peer-review**

- Multiple rounds of peer-review
- New improved versions
- Copy-editing







#### **Reachability for Turing machines with long tapes**

#### Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_{\alpha}$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_{\alpha}$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ .

We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\{\xi < \alpha\}$ , there is a  $T_{\xi}$ -writable but not  $T_{\alpha}$ -writable subset of  $\omega$ .

(b) There is a gap in the  $T_{\alpha}$ -writable ordinals. (c)  $\alpha$  is uncountable in  $L_{\lambda_{\alpha}}$ . Here  $\lambda_{\alpha}$  denotes the supremum of  $T_{\alpha}$ -writable ordinals, i.e. those with a  $T_{\alpha}$ -writable code of length  $\alpha$ .

We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_{\alpha}$ , where  $\Sigma_{\alpha}$  denotes the supremum of the  $T_{\alpha}$ -accidentally writable ordinals.

Subjects: Logic (math.LO); Logic in Computer Science (cs.LO)

Cite as: arXiv:1802.05734 [math.LO]

(or arXiv:1802.05734v5 [math.LO] for this version)

#### Submission history

From: Philipp Schlicht [view email]

[v1] Thu, 15 Feb 2018 19:55:02 UTC (23 KB)

[v2] Wed, 21 Feb 2018 07:58:12 UTC (23 KB)

[v3] Mon, 21 Jan 2019 17:35:28 UTC (28 KB)

[v4] Thu, 23 May 2019 11:53:38 UTC (29 KB)

[v5] Thu, 5 Dec 2019 20:00:10 UTC (31 KB)

[v6] Tue, 10 Dec 2019 07:28:22 UTC (31 KB)

[v7] Mon, 9 Mar 2020 08:05:29 UTC (31 KB)

[v8] Wed, 8 Apr 2020 14:35:32 UTC (39 KB)

[v9] Mon, 20 Apr 2020 20:35:58 UTC (41 KB)

[v10] Thu, 23 Apr 2020 09:08:19 UTC (41 KB)

### 4. Journal Layout

Merlin Carl; Benjamin Rin; Philipp Schlicht - Reachability for infinite time Turing machines with long tapes

Imcs:4444 - Logical Methods in Computer Science, April 24, 2020, Volume 16, Issue 2 - https://doi.org/10.23638/LMCS-16(2:2)2020

#### Reachability for infinite time Turing machines with long tapes

Authors: Merlin Carl ; Benjamin Rin ; Philipp Schlicht

Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_{\alpha}$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_{\alpha}$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ . We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\xi < \alpha$ , there is a  $T_{\xi}$ -writable but not  $T_{\alpha}$ -writable subset of  $\omega$ . (b) There is a gap in the  $T_{\alpha}$ -writable ordinals. (c)  $\alpha$  is uncountable in  $L_{\lambda_{\alpha}}$ . Here  $\lambda_{\alpha}$  denotes the supremum of  $T_{\alpha}$ -writable ordinals, i.e. those with a  $T_{\alpha}$ -writable code of length  $\alpha$ . We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_{\alpha}$ , where  $\Sigma_{\alpha}$  denotes the supremum of the  $T_{\alpha}$ -accidentally writable ordinals.

#### https://doi.org/10.23638/LMCS-16(2:2)2020

Source: oai:arXiv.org:1802.05734 Volume: Volume 16, Issue 2 Published on: April 24, 2020 Submitted on: April 16, 2018

Keywords: Mathematics - Logic, Computer Science - Logic in Computer Science

B Download this file

Consult the article webpage





Logical Methods in Computer Science Volume 16, Issue 2, 2020, pp. 2:1–2:16 https://lmcs.episciences.org/

Submitted Apr. 16, 2018 Published Apr. 24, 2020

#### REACHABILITY FOR INFINITE TIME TURING MACHINES WITH LONG TAPES

#### MERLIN CARL, BENJAMIN RIN, AND PHILIPP SCHLICHT

Fachbereich Mathematik und Statistik, University of Konstanz, 78457 Konstanz, Germany, and Europa-Universität Flensburg, Institut für mathematische, naturwissenschaftliche und technische Bildung, Abteilung für Mathematik und ihre Didaktik, Auf dem Campus 1b, 24943 Flensburg, Germany

e-mail address: merlin.carl@uni-konstanz.de

Departement Filosofie en Religiewetenschap, Utrecht University, Janskerkhof 13, 3512 BL, Utrecht, The Netherlands

e-mail address: b.g.rin@uu.nl

Department of Computer Science, The University of Auckland, Private Bag 92019, Auckland 1142, New Zealand, and School of Mathematics, University of Bristol, Fry Building. Woodland Road, Bristol, BSs 1UG, UK

e-mail address: philipp.schlicht@bristol.ac.uk

ABSTRACT. Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_{\alpha}$ , strengthen the machines of Hamkins and Kidder with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_{\alpha}$  given trivial input. The main open question in a paper of Rin from 2014 asks about the size of the least such ordinal  $\delta$ .

We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties:

- For some ε < α, there is a T<sub>ε</sub>-writable but not T<sub>α</sub>-writable subset of ω.
- There is a gap in the T<sub>α</sub>-writable ordinals.
- α is uncountable in L<sub>λα</sub>.

Here  $\lambda_{\alpha}$  denotes the supremum of  $T_{\alpha}$ -writable ordinals, i.e. those with a  $T_{\alpha}$ -writable code of length  $\alpha$ .

We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_{\alpha}$ , where  $\Sigma_{\alpha}$  denotes the supremum of the  $T_{\alpha}$ -accidentally writable ordinals.

Received by the editors April 12, 2021.

We would like to thank the anonymous referees for their helpful comments. This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 794020 (IMIC) for the third-listed author.



Merlin Carl, Benjamin Rin, and Philipp Schlicht

### 5. Publication: one Version Of Record



Back to the article management page

#### **Reachability for infinite time Turing machines** with long tapes arXiv.org

Merlin Carl, Benjamin Rin, Philipp Schlicht

Infinite time Turing machine models with tape length  $\alpha$ , denoted  $T_{\alpha}$ , strengthen the machines of Hamkins and Kidder [HL00] with tape length  $\omega$ . A new phenomenon is that for some countable ordinals  $\alpha$ , some cells cannot be halting positions of  $T_{\alpha}$  given trivial input. The main open question in [Rin14] asks about the size of the least such ordinal  $\delta$ .

We answer this by providing various characterizations. For instance,  $\delta$  is the least ordinal with any of the following properties: (a) For some  $\xi < \alpha$ , there is a  $T_{\varepsilon}$ -writable but not  $T_{\alpha}$ -writable subset of  $\omega$ . (b) There is a gap in the  $T_{\alpha}$ writable ordinals. (c)  $\alpha$  is uncountable in  $L_{\lambda_{\alpha}}$ . Here  $\lambda_{\alpha}$  denotes the supremum of  $T_{\alpha}$ -writable ordinals, i.e. those with a  $T_{\alpha}$ -writable code of length  $\alpha$ . We further use the above characterizations, and an analogue to Welch's submodel characterization of the ordinals  $\lambda$ ,  $\zeta$  and  $\Sigma$ , to show that  $\delta$  is large in the sense that it is a closure point of the function  $\alpha \mapsto \Sigma_{\alpha}$ , where  $\Sigma_{\alpha}$  denotes the supremum of the  $T_{\alpha}$ -accidentally writable ordinals.

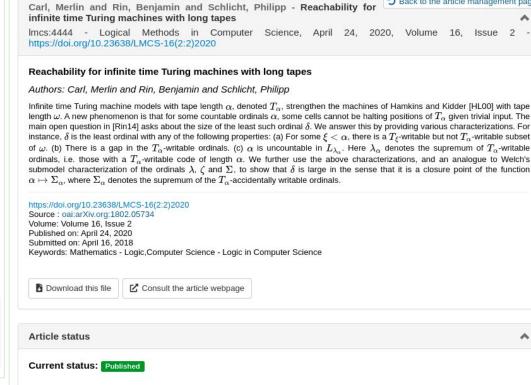
Subjects: Logic (math.LO); Logic in Computer Science (cs.LO)

Journal reference: Logical Methods in Computer Science, Volume 16, Issue 2 (April 24, 2020)

Cite as: arXiv:1802.05734 [math.LO]

(or arXiv:1802.05734v10 [math.LO] for this version)

Imcs:6429 DQI: 10.23638/LMCS-16(2:2)2020







# **Examples of platform tools**







### Website Design



#### Focus and scope

- Siquis enim militarium vel honoratorum aut nobilis inter suos rumore tenus esset insimulatus fovisse partes hostiles, iniecto onere
  catenarum in modum beluae trahebatur et inimico urgente vel nullo, quasi sufficiente hoc solo, quod nominatus esset aut delatus aut
  postulatus, capite vel multatione bonorum aut insulari solitudine damnabatur.
- Duplexque isdem diebus acciderat malum, quod et Theophilum insontem atrox interceperat casus, et Serenianus dignus exsecratione cunctorum, innoxius, modo non reclamante publico vigore, discessit.

#### **Editorial policy**

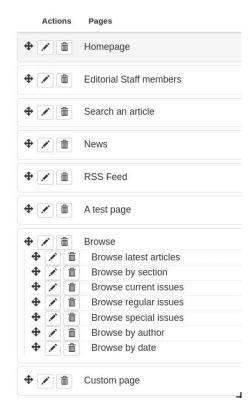
Coactique aliquotiens nostri pedites ad eos persequendos scandere clivos sublimes etiam si lapsantibus plantis fruticeta prensando vel
dumos ad vertices venerint summos, inter arta tamen et invia nullas acies explicare permissi nec firmare nisu valido gressus: hoste
discursatore rupium abscisa volvente, ruinis ponderum inmanium consternuntur, aut ex necessitate ultima fortiter dimicante, superati
periculose per prona discedunt.

#### **New articles**



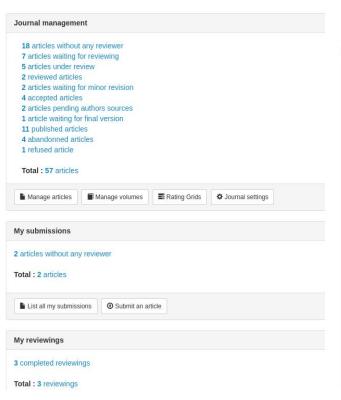
P POWERED BY TINY

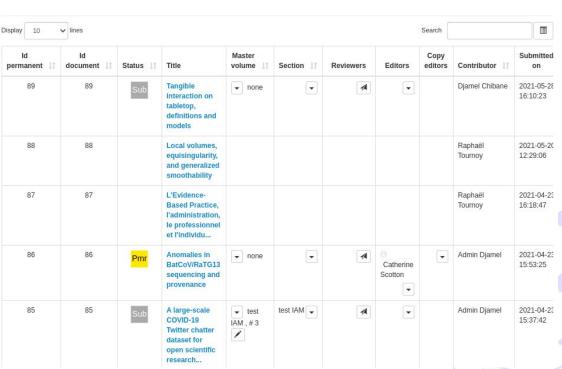




### Article dashboard

#### Dashboard





#### Paper - reviewing

Invite a user to review an article - existing user		<b>©</b> Edit
Updated rating deadline		<b>©</b> Edit
Reviewer removal		<b>©</b> Edit
Refused reviewer invitation (reviewer copy)		<b>©</b> Edit
Refused reviewer invitation (editors copy)		<b>©</b> Edit
Invite a user to review an article - user does not have an account yet		<b>©</b> Edit
Accepted reviewer invitation (reviewer copy)		<b>ⓒ</b> Edit
Accepted reviewer invitation (editors copy)		<b>ⓒ</b> Edit
Reviewer invitation to a new version of an article		<b>ⓒ</b> Edit
Invite a user to review an article - existing reviewer	<b>♂</b> Edit	☐ Revert
Completed rating (reviewer copy)		<b>ⓒ</b> Edit
Completed rating (editors copy)		<b>ⓒ</b> Edit
Reviewer assignment to a new version of an article		<b>ⓒ</b> Edit
Reviewer assignment to a temporary version		<b>ⓒ</b> Edit
Final version accepted: reviewing is no longer needed		<b>ⓒ</b> Edit
Revision request: reviewing is no longer needed		<b>ⓒ</b> Edit
Article refused: reviewing is no longer needed		<b>©</b> Edit
Published article: reviewing is no longer needed		<b>©</b> Edit

# Customized Email templates

#### Invite this reviewer

From	Raphaēl Tournoy <raphael.tournoy@ccsd.cnrs.fr></raphael.tournoy@ccsd.cnrs.fr>						
Recipient	Frank Rust <nobody@ccsd.cnrs.fr></nobody@ccsd.cnrs.fr>						
СС							
BCC							
Rating due date	<b>ii</b> 2021-06-08						
Subject	epijinfo #748 - You are invited to review an article						
Message	B I U Tags → → ► Ξ Ξ ≡ ♂						
	You are invited to review the following article: "#748 - A Duality Theorem for Weak Multiplier Hopf Algebra Actions".  Please tell us if you accept or not, by going to this page:  9696INVITATION_URL9696  Without any answer from you within 1 day(s), we will consider that you were not interested. In case you accept this invitation, your rating will be due before June 8, 2021.  Sincerely yours,						
	Episciences.org  Forgotten username ?						

Authorized extensions: png, jpg, jpeg, gif, tif, tiff, zip, 7z, rar, tar, bz, bz2, rtf, doc, docx, pdf, txt, html, css, odt, ods, xls, xlsx, tex, bbl, bbx, bib, bst, cbx, cfs, def, dbx, dtx, lbx, sty
Maximum file size you can Upload: 15 MB



### Reviewer invitations



	-	_		
)	IS	D	ıαγ	
			7	

OF
20

Search:

# Ratings grids

Criterion	Coeff.	Comments	Upload	Rating	visibility	Actions
Scientific relevance	5	Yes	No	Quantitative rating (out of 5)	Contributor	<b>⊘</b> Edit
<b>♦</b> Originality	5	Yes	No	Quantitative rating (out of 10)	Editors	<b>⊘</b> Edit
♦ Writing quality	2	Yes	No	Quantitative rating (out of 10)	Editors	<b>⊘</b> Edit
<b>▶</b> Comments	-	Yes	Yes	Free rating	Contributor	<b>⊘</b> Edit
<b>₽</b> Evaluation	-	No	No	Separator	Editors	<b>⊘</b> Edit
Scientific relevance	5	Yes	No	Quantitative rating (out of 10)	Public	<b>⊘</b> Edit
• Originality	5	Yes	No	Quantitative rating (out of 10)	Contributor	<b>Ø</b> Edit
Writing quality	2	Yes	No	Quantitative rating (out of 10)	Contributor	<b>Ø</b> Edit
<b>♣</b> Commentaires	-	Yes	Yes	Free rating	Contributor	<b>Ø</b> Edit
titation relevance	-	Yes	No	Qualitative rating (customized)	Editors	<b>Ø</b> Edit
₱ Report	-	No	No	Separator	Editors	<b>☑</b> Edit Remo
Upload du rapport d'évaluation	-	Yes	Yes	Free rating	Editors	<b>©</b> Edit

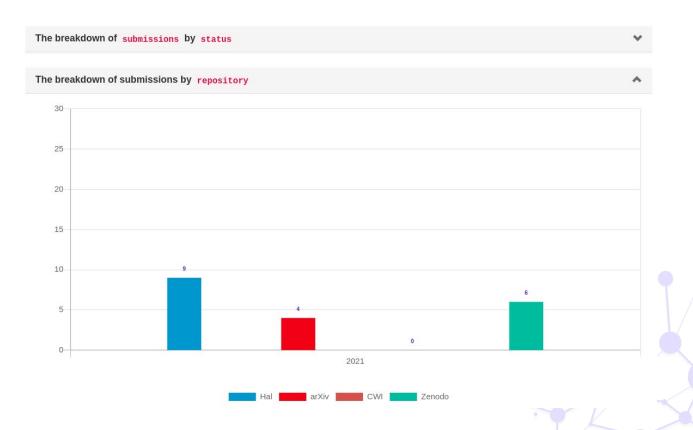
Lines 1 to 12, of 12

# Automatic email reminders

#### **Automatic reminders**

- Unanswered reviewer invitation reviewer copy (1 day)
- Unanswered reviewer invitation editor copy (7 days)
- Unanswered reviewer invitation editor copy (14 days)
- Unanswered reviewer invitation reviewer copy (14 days)
- Reminder before reviewing deadline reviewer copy (2 days)
- Reminder before reviewing deadline reviewer copy (1 day)
- Reminder after reviewing deadline reviewer copy (1 day)
- Reminder after reviewing deadline reviewer copy (1 day)
- Reminder after reviewing deadline reviewer copy (2 days)
- Reminder after reviewing deadline reviewer copy (3 days)
- Reminder after reviewing deadline editor copy (7 days)
- Reminder before revision deadline editor copy (2 days)
- Reminder before revision deadline author copy (2 days)
- Reminder before revision deadline author copy (1 day)
- Reminder before revision deadline editor copy (1 day)
- O Not enough reviewers editor copy (1 day)

### **Statistics**



# And many other tools...





