On Becoming an Expert...

Rutger de Jong, Subject Librarian Science | BSc MI

28-02-2018



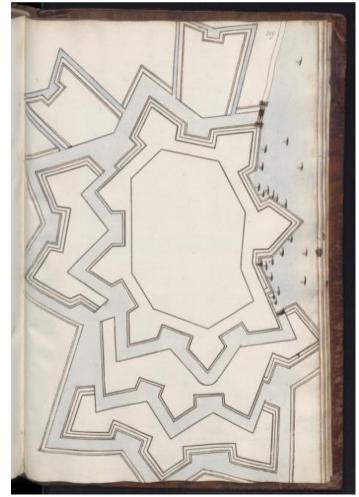
Program

- Introduction
- Scholarly communication
- Searching information in 5 steps
- Referencing



The University Library by Numbers

- Over 7 locations, desks in Jakarta and Rabat
- 120 fte
- Circa 2 million ebooks
- Over 5 million printed books
- Over 40.000 e-journals
- Over 600 databases
- Large collection of historically important materials



Schooten, F. (1600). Uitgewerkte Voorstellen Van Theoretische En Toegepaste Meetkunde, Opgehelderd Door Net Geconstrueerde Teekeningen.

Science & communication

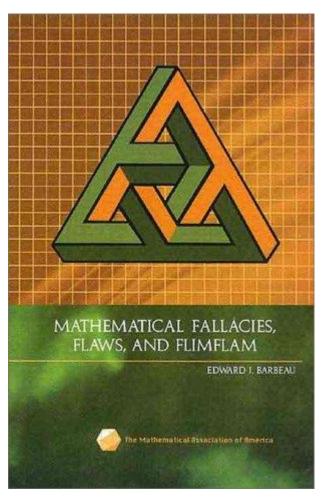
Non-scientific

- Magazines: popular/trade (Plus Magazine, Mathematics Magazine)
- Websites
- Encyclopedia
- Books

Scientific

- Conference proceedings
- Journal articles (peer-reviewed)
- Books
- Datasets

Wikipedia?



Is any source good for Science?

Why (not) Wikipedia?

Use Wikipedia for:

- General knowledge
- Getting ideas for search terms
- Pointers to relevant literature

Not for:

• Scientific reference

	Project page	Talk	Read	Edit	View history	Search		Q
WIKIPEDIA	Wikip	edia:WikiProject N	Iath	lem	atics			
The Free Encyclopedia	From Wikipe	edia, the free encyclopedia						
			la	ım 9,	i am in 6th	n grade b	ecause i	uts:
			sk	ippe	d 2 grades	due to m	iy math	PM
			sk	ills. A	wesome a	it math, e	specially	МАТН
		Anything math-related except	ot in	inve	nting name	es for HUC	GE	IATHS
Elementgermaniun	п (т с)	calculus, geometry and	nu	imbe	rs. ever he	eard of the	е	
		advanced algebra.	go	ogol	unvigintilip	lex? i inve	ented the	
			na	me!	someone	might hav	e come	
			up	with	it before r	ne but i th	hought of	
			it	on m	y own.			
Tools	`	ven read) them. This WikiProject is no		ior.				
What links here		e. The suggestions are intended to be are not sure what to write, or how they		0I				
Related changes Upload file		but they should not distract anyone w)				
Special pages		rom our main purpose: to write and im	prove			eract, the fo analog of th	our-dimensi 1e cube.	ional
Computer algebra	and most					-	d version, c	lick
areas of mathema	tics, with	Emeritus professor in ma	thema	tics		here		

and computer science

Also of interest: https://www.encyclopediaofmath.org

D.Lazard (T c)

emphasis on effective and

Anyone can edit!

Resources

Mathematics portal

edit

Not logged in Talk Contributions Create account Log in

How Publishing Works

I send in my paper and then...

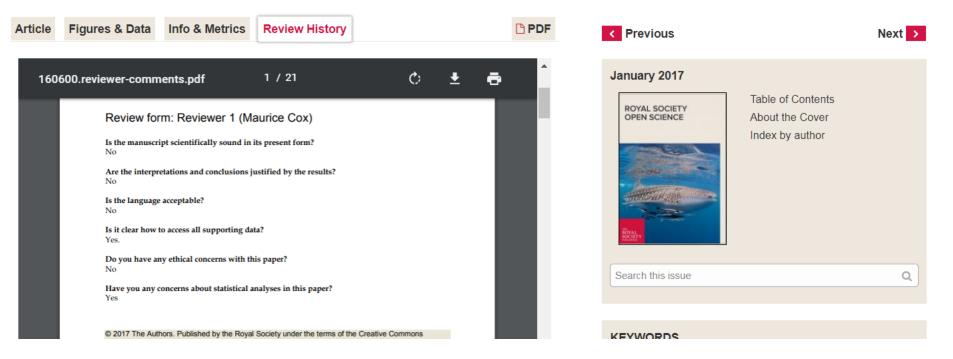
Journal	First decision submission to first decision in weeks	Review speed submission to final decision in weeks	First online acceptance to citable online in weeks
Applied and Computational Harmonic Analysis 🗷	15.70	20.83	1.02
Applied Mathematical Modelling 🤊	25.30	33.15	2.73
Applied Mathematics and Computation 🗷	28.08	30.86	4.42
Applied Mathematics Letters 🛪	1.30	1.59	1.95
Applied Numerical Mathematics >	20.62	29.27	4.57
Computational Statistics and Data Analysis 🗷	9.34	14.35	1.69
Computers and Mathematics with Applications 🗷	6.06	7.83	3.74
Differential Geometry and its Applications 🛪	16.09	17.70	3.26
Discrete Applied Mathematics 🤊	25.32	32.67	3.58
Discrete Optimization 🤊	14.35	26.19	3.88
Finite Fields and Their Applications 🤊	15.55	21.62	4.96

Reasons for Delay: Peer Review

* Not Normal: the uncertainties of scientific measurements

David C. Bailey

Published 11 January 2017. DOI: 10.1098/rsos.160600



I Just Can't Wait: Preprints

www.Arxiv.org

- Rough author's version
 - Pre-print: before peer-review
 - Post-print: after peer-review
- Follow trends
- Receive comments to incorporate in final manuscript
- Should mention if accepted/published
- If we do not have a subscription to an article, this will be a place to find a readable version



arXiv.org > stat > arXiv:1612.00778

Statistics > Applications

Not Normal: the uncertainties of scientific measurements

David C. Bailey

(Submitted on 2 Dec 2016 (v1), last revised 19 Jan 2017 (this version, v2))

Judging the significance and reproducibility of quantitative research requires a good understanding of relevant uncertainties, but it is often unclear how well these have been evaluated and what they imply. Reported scientific uncertainties were studied by analysing 41000 measurements of 3200 quantities from medicine, nuclear and particle physics, and interlaboratory comparisons ranging from chemistry to toxicology. Outliers are common, with 5{\sigma} disagreements up to five orders of magnitude more frequent than naively expected. Uncertainty-normalized differences between multiple measurements of the same quantity are consistent with heavy-tailed Student-t distributions that are often almost Cauchy, far from a Gaussian Normal bell curve. Medical research uncertainties are generally as well evaluated as those in physics, but physics uncertainty improves more rapidly, making feasible simple significance criteria such as the 5{\sigma} discovery convention in particle physics. Contributions to measurement uncertainty from mistakes and unknown problems are not completely unpredictable. Such errors appear to have power-law distributions consistent with how designed complex systems fail, and how unknown systematic errors are constrained by researchers. This better understanding may help improve analysis and meta-analysis of data, and help scientists and the public have more realistic expectations of what scientific results imply.

 Comments:
 17 pages, 5 figures. Auxiliary Excel file (UncertaintyDataDescription.xls) lists sources of data

 Subjects:
 Applications (stat.AP); Data Analysis, Statistics and Probability (physics.data-an)

 Journal reference:
 Royal Society Open Science, 4, 160600 (2017)

 DOI:
 10.1098/rsos.160600

 Cite as:
 arXiv:1612.00778v2 [stat.AP] for this version)

Once I Get Published: Findability

- It may take >2 months before it appears in databases such as Web of Science or Google Scholar
- Send press releases, update profile
- Databases add value
 - Provide keywords
 - Classify in research field
 - Quality control (journal level)
 - Indexes references and citations
 - Add reviews (in mathematics)

Not Normal: the uncertainties of scientific measurements

By: Bailey, DC (Bailey, David C.)[1]

ROYAL SOCIETY OPEN SCIENCE Volume: 4 Issue: 1 Article Number: 160600 DOI: 10.1098/rsos.160600 Published: JAN 2017 View Journal Impact

view Journal impa

Abstract

Judging the significance and reproducibility of quantitative research requires a good understanding of relevant uncertainties, but it is often unclear how well these have been evaluated and what they imply. Reported scientific uncertainties were studied by analysing 41 000 measurements of 3200 quantities from medicine, nuclear and particle physics, and interlaboratory comparisons ranging from chemistry to toxicology. Outliers are common, with 5s disagreements up to five orders of magnitude more frequent than naively expected. Uncertainty-normalized differences between multiple measurements of the same quantity are consistent with heavy-tailed Student's t-distributions that are often almost Cauchy, far from a Gaussian Normal bell curve. Medical research uncertainties are generally as well evaluated as those in physics, but physics uncertainty improves more rapidly, making feasible simple significance criteria such as the 5s discovery convention in particle physics. Contributions to measurement uncertainty from mistakes and unknown problems are not completely unpredictable. Such errors appear to have power-law distributions consistent with how designed complex systems fail, and how unknown systematic errors are constrained by researchers. This better understanding may help improve analysis and meta-analysis of data, and help scientists and the public have more realistic expectations of what scientific results imply.

Keywords

Author Keywords: measurement uncertainty; research reproducibility; systematic errors; complex systems; meta-analysis; metrology KeyWords Plus: POWER-LAW; AVOGADRO CONSTANT; PARTICLE PHYSICS; MOLAR VOLUME; DISTRIBUTIONS; ERROR; STATISTICS; SYSTEMS REPRODUCIBILITY; STANDARDS

MathSciNet Mathematical society Mathematical Reviews

ISSN 2167-5163

Select alternative format 🔻

Publications results for "Items authored by Bailey, David C."

MR3621394 Indexed

Bailey, David C.(3-TRNT-P) **Not normal: the uncertainties of scientific measurements.** (English summary) *R. Soc. Open Sci.* 4 (2017), no. 1, January, 160600, 19 pp. 62A99 Review PDF | Clipboard | Journal | Article | Make Link

	-	-			
Cited	Re	eferer	ices		

View Related Records

Citation Network

Create Citation Alert

All Times Cited Counts

2 in All Databases

See more counts

103

2

Times Cited

In Web of Science Core Collection

Most recently cited by:

Camarillo, Tia; Mathur, Varun; Mitchell, Tyler; et al. Median Statistics Estimate of the Distance to the Galactic Center . PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE

Home Preferences Free Tools Help Support Mail Terms of Use Blog

University of Leiden

Previous Up Next

Citations From References: 0 From Reviews: 0

Previous Up Next



© Copyright 2018, American Mathematical Society Privacy Statement

Why Did My Publication Get Through QC

Criteria	
Intended audience	Scientists
Objectivity	Yes
Author and affiliation	Expert in the field
Recent publication	Yes
Publisher / Journal	Academic / high impact
References	Yes
Peer-reviewed	Yes
Primary or secondary research	First hand (p)

These criteria help you recognize scholarly articles/ and books

Finding information in 5 steps

- What information do I need?
- What information resources are available?
- How do I build a solid search strategy?
- How do I evaluate the results?
- How do I use the information in my research?



Step 1: Information Needs

- Do a broad search to get acquainted with the topic
- Decide what material is appropriate:
 - Books
 - Journal articles
 - Data

"If we all go for the blonde and block each other, not a single one of us is going to get her. So then we go for her friends, but they will all give us the cold shoulder because no on likes to be second choice. But what if none of us goes for the blonde? We won't get in each other's way and we won't insult the other girls. It's the only way to win. It's the only way we all get laid."

Identify the famous mathematician who describes one of the most revolutionary mathematical principles in the above speech. He's the subject of a very famous Hollywood movie released back in 2001.



Nash equilibria

18.

Step 2: Information Resources

UB Catalogue (books, databases)

Mathematical databases

MathSciNet ZentralBlatt MATH

Project Euclid

When: looking for mathematical publications

Scientific databases

Arxiv.org (pre-print physics, mathematics and computer sciences) Eric (education) **Google Scholar** (general) Web of Science (general)

When: looking for articles on mathematics and its applications Collections/vendors ACM AMS Ebsco IEEE Computer Society Digital Library SIAM SpringerLink e-books Turpion Wiley Etc.

When: looking for a specific book/book collection

Step 2: Information Resources

library

Ask a Librarian Hel

Search

Acquisitions Library Home

- Use the <u>Catalogue</u> as starting point
- Always 'Sign In' with ULCN account
- Books: 'Leiden Collections'
- Find Databases (Web of Science, Google Scholar, etc.)
- Find e-Journals

New Search

All Content

• Do the <u>Catalogue Tutorial</u> to get started

Find e-Journals

Special Collections

Search tools Train	ning Research & publis	hing Special Collectio	ns About us	Support us	
			See Se	earch the Lib	orarv
\sim					and the second second
				, , ,	
-/		->			
	e c			👤 My Library ad	count
Sea	rch tools				
The libra	ary is the portal to a	large amount of			
,					
		0 ,			
Use subie	ect guides to find informat	ion sources by field of			
> burnals to a	articles		C		
rnals 🗐			5 W	'orldC	at
		D' co Mil C	D '		
}					
				_	
	Guest	😭 e-Shelf	My Acco	unt Sig	n in
	 Sea Sea The libric scientific several bibliogrid bibliogrid ones and bibliogrid study on the stu	 Search tools The library is the portal to a scientific information. To find several tools are available: co bibliographies, databases. To ones are listed here. Use subject guides to find informat study or by subject. Discription of the several tools are considered here. Discription of the several tools are available of the several tools are available of the several tools are available. Discription of the several tools are available of the several tools are available. Discription of the several tools are available. Discription of the several tools are available. 	 A structure of the second secon	Note: State	 A contraction of the portal to a large amount of scientific information. To find the information sources by field of a contraction of scientific information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guides to find information sources by field of acts or by subject. A subject guide to find information sources by field of acts or by subject. A subject guide to find information sources by field of acts or by subject. A subject guide to find information sources by field of acts or by subject. A subject guide to find information sources by field of acts or by subject. A subject guide to find information sources by field of acts or by subject. A subject guide to find information sources by field of acts or by subject. A subject guide to find infor

Find Databases

Leiden Collections

Universiteit Leiden

Step 2: Catalogue

http://catalogue.leidenuniv.nl

Step 2: Information Resources - Books

- Snellius: always use the lending form
- Fill in:
 - Student number
 - Barcode
 - Spine/body number (MSC + book number)
 - Etc.



Barcode (inside front cover).	_ent to:		
Subject heading & booknr.(spine of the book).	8 figures:	2003	Universiteit Leiden
Author: Title: Volume/year: The undersigned declares to have borrowed the for the duration of 21 days , under the conditions for b	No library pass or student card? Please fill in ↓ (Working)address & phone number:	EK LABORATORIA DEN 7 43 66 / 67	1 481 457 3
http://www.library.leiden.edu/mathematics-natural-sciences http://bibliotheek.leidenuniv.ni/wiskunde-natuurwetenschappen/	science@library.leidenuniv.nl		

Peculiarities of Mathematical Databases

	MathSciNet	Web of Science
Review	Usually a comment or short abstract of the publication	Overview of current research on a specific research subject. In mathematics look for books to get more similar content.
Classification	Mathematical Subject Classification	Broad subject areas such as statistics or applied mathematics
Impact	MCQ – based upon citations from mathematical journals only	Impact Factor – based upon all citations. For example also from applied fields such as chemistry.
Material	Many books, check catalogue as well as GetIt@Leiden	Mostly points to papers
Language	English, French, German, etc.	Abstract and title usually translated to English!

Mathematical Databases - MSC

MSC: Mathematics Subject Classification
MSC: Mathematics Subject Classification
Classification in MathSciNet, Zentralblatt MATH,
Arxiv and Snellius library!
MathSciNet: Free Tools
http://www.ams.org/msc

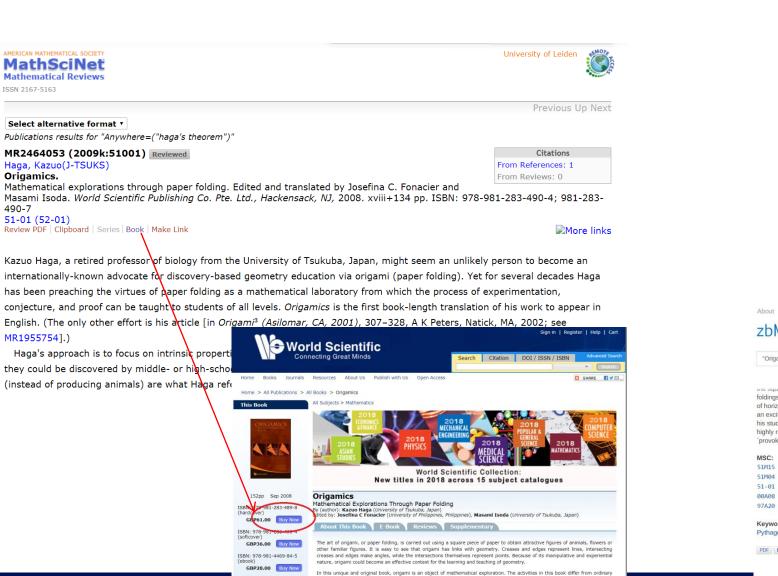
Tips:

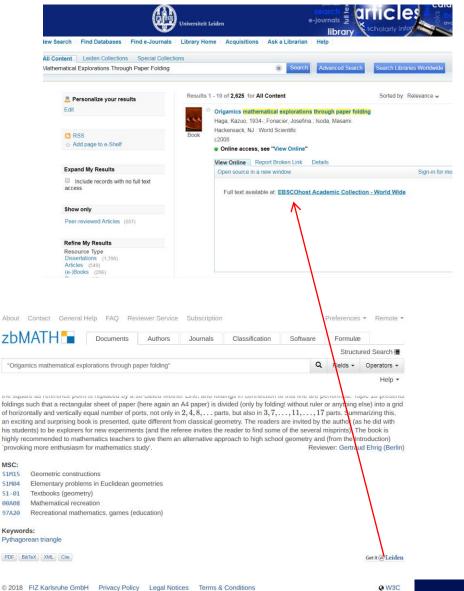
• Use hierarchy

• Check the date!

ICAN MATHEMATICAL SOCIETY	University of Le
athSciNet thematical Reviews	
2167-5163	
C results for "91"	
(1940-now) Gam	ne theory, economics, social and behavioral sciences
	(2000-now) General reference works (handbooks, dictionaries, bibliographies, etc.)
91-01 🗉	(2000-now) Instructional exposition (textbooks, tutorial papers, etc.)
	(2000-now) Research exposition (monographs, survey articles)
91-03 🗉	(2000-now) Historical (must also be assigned at least one classification number from section 01)
91-04 🗉	(2000-now) Explicit machine computation and programs (not the theory of computation or programming)
	(2000-now) Proceedings, conferences, collections, etc.
91-08 🗉	(2000-now) Computational methods
91A 🗉 (2000-n	ow) Game theory
91A05 🗉	(2000-now) 2-person games
91A06 🗉	(2000-now) <i>n</i> -person games, $n > 2$
	(2000-now) Noncooperative games
91A12 🗉	(2000-now) Cooperative games
91A13 🗉	(2000-now) Games with infinitely many players
91A15 🗉	(2000-now) Stochastic games
	(2000-now) Games in extensive form
	(2000-now) Multistage and repeated games
	(2000-now) Evolutionary games
	(2000-now) Differential games [See also 49N70]
	(2000-now) Positional games (pursuit and evasion, etc.) [See also 49N75]
_	(2000-now) Dynamic games
	(2000-now) Rationality, learning
	(2000-now) Signaling, communication
	(2000-now) Utility theory for games [See also 91B16]

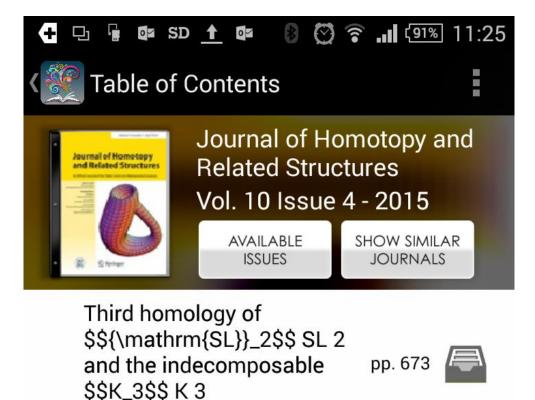
Not Found => Check Catalogue





Step 2: Information Resources - Journals

Keep up with the latest trends on your topic by following specific journals. Download Browzine on iOS or Android, login with your ULCN-account.



🗄 🔚 🖬 🕼 SD 🚹		a .11 (919	6 11:26
Third homolog			÷
J. Homotopy Relat. Struct. (2015) 10:673–683 DOI 10.1007/s40062-014-0080-9		Cre	ossMark
Third homology of SL ₂ and the	indecompo	sable K ₃	
Behrooz Mirzaii			
Received: 18 February 2014 / Accepted: 8 April 2014 © Tbilisi Centre for Mathematical Sciences 2014	/ Published online: 2	25 April 2014	
Abstract It is known that, for an infinite fit and the third homology of $SL_2(F)$ are cle cal map α : $H_3(SL_2(F), \mathbb{Z})_{F^*} \to K_3(F)$ an isomorphism? Recently Hutchinson an jective. In this article, we show that α is l $H_3(GL_2(F), \mathbb{Z}) \to H_3(GL_3(F), \mathbb{Z})$ and H injective.	osely related. In ^{ind} . Suslin has d Tao have sho bijective if and	a fact, there is a car raised the question: wn that this map is only if the natural	noni- Is α s sur- maps
1 Introduction			
For an infinite field F , Suslin has proved the	at the Hurewicz	homomorphism	
$h_3: K_3(F) = \pi_3(BSL(F)^+) \longrightarrow H_3$	$(BSL(F)^+, \mathbb{Z})$	$\simeq H_3(\mathrm{SL}(F),\mathbb{Z})$	
is surjective with 2-torsion kernel. In fact, sequence	, he has shown	that h_3 sits in the	exact

 $K_2(F) \xrightarrow{l(-1)} K_3(F) \longrightarrow H_3(\mathrm{SL}(F), \mathbb{Z}) \longrightarrow 0,$

where the homomorphism $l(-1) : K_2(F) \rightarrow K_3(F)$ coincides with multiplication by $l(-1) \in K_1(\mathbb{Z})$ [10, Lemma 5.2, Corollary 5.2]. Let

Communicated by Hvedri Inassaridze.

B Mirzoii (N)

Discover the wor

On the structure of

Mirzaii, Behrooz

Step 3: Search Strategy

Original Research is:

- 1. Go where no one has gone before
- 2. Builds upon existing scientific foundations

ReSearch

Information overload

- 1. Strategy: define what you are looking for
- 2. Search efficiently and effectively



Step 3: Search Strategy – Snowball/Citations

Starting point:

- Excellent article
- Book

Search engines:

- Google Scholar
- Web of Science
- MathSciNet
- Zentralblatt MATH



Step 3: Search Strategy – MathSciNet

AMERICAN M Mathem

ISSN 2167

Select a

Publication MR316 Holst, L

Probab

J. Appl. 11M06 PDF | Clip

- Citation Database
- American Mathematical Society
- 3 million+ references
- Reviews
- Search within references
- Filter on
 - •MSC
 - Publication type
 - Author

	Home	Preferences	Free Tools	Help	Support Mail	Terms of Use
					Univ	ersity of Leide
5163						
					Previ	ous Up Next
alternative format 🝷						
ons results for "Citations of 2349551"						
1382 Reviewed					Citati	ions
ars(S-RIT)				F	rom Reference	es: 1
ilistic proofs of Euler identities. (English summary)				F	rom Reviews:	0
<i>Probab.</i> 50 (2013), no. 4, 1206–1212.						
(01A50 33B10 60E05)						
board Journal Article Make Link						ØS-F-X
paper, the author gives an alternative proof for Euler's exact sum fo	or the B	asel proble	m. Also th	e autl	nor proves E	uler's

In this paper, the author gives an alternative proof for Euler's exact sum for the Basel problem. Also the author proves Eu infinite product formula for the sine using the hyperbolic secant distribution.

Reviewed by $\underline{inci}\ \underline{Ege}$

References

- 1. BATEN, W. D. (1934). The probability law for the sum of n independent variables, each subject to the law (1/(2h))sech $(\pi x/(2h))$. Bull. Amer. Math. Soc. **40**, 284–290. MR1562838
- 2. BOURGADE, P., FUJITA, T. AND YOR, M. (2007). Euler's formulae for ζ(2n) and products of Cauchy variables. *Electron. Commun. Prob.* **12**, 73–80. MR2300217
- 3. BRADLEY, R. E., D'ANTONIO, L. A. AND SANDIFER, C. E. (eds) (2007). *Euler at 300. An Appreciation.* Mathematical Association of America, Washington, DC. MR2349551
- 4. CHAPMAN, R. (2003). Evaluating ζ(2). Preprint. Available at http://www.uam.es/personal_pdi/ciencias/cillerue/Curso/zeta2.pdf
- 5. DUNHAM, W. (1999). Euler: The Master of Us All. Mathematical Association of America, Washington, DC. MR1669154
- 6. FELLER, W. (1966). An Introduction to Probability Theory and Its Applications, Vol. 2. John Wiley, New York. MR0210154
- 7. GORDON, L. (1994). A stochastic approach to the gamma function. Amer. Math. Monthly 101, 858-865. MR1300491
- 8. HARKNESS, W. L. AND HARKNESS, M. L. (1968). Generalized hyperbolic secant distributions. J. Amer. Statist. Assoc. 63, 329-337.

MathSciNet

Google Scholar - citations

Step 3: Search Strategy – Formulating

- Be specific
- Ask questions:
 - What? Nash Equilibria
 - Who? –
 - Why? Want to discover how to make people spend in my supermarket
 - How? By changing the prizing
 - When? Not relevant
 - Where? in the supermarket
- Formulate as topic or question

Example:

How can I maximize my supermarket profits using Nash equilibria?



OR



Step 3: Search Strategy – Search Tools

- First split up your question in concepts
- Use many synonyms (from broad searches, <u>www.thesaurus.com</u>, etc.)
- Use different languages! (tip: Wikipedia in different languages, database Van Dale)

How can I maximize my supermarket profits using Nash equilibria?

Concept	Synonym 1	Synonym 2
Nash equilibria	Équilibre de Nash	
Profit		
Supermarket		

Step 3: Search Strategy – Search Tools

Use wildcards. They are database specific. For Web of Science:

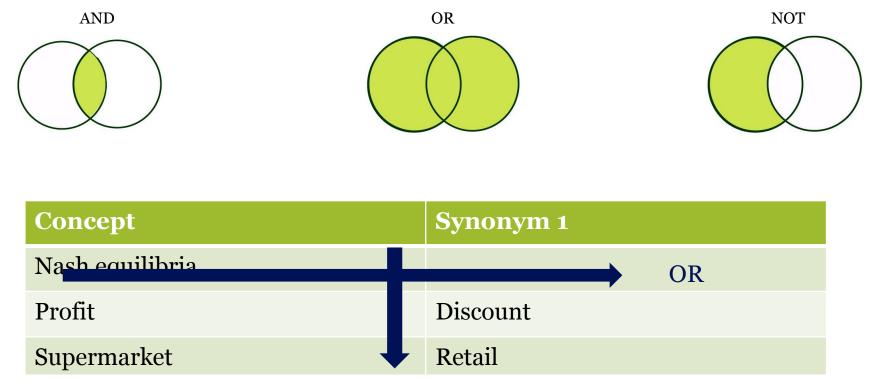
- = zero or one (colo r => colour, color)
- ? = one (m?n => man, men)
- * = zero or more (carbon* => carbon, carbonate)

MathSciNet and Zentralblatt MATH just have * for all differences!

"Nash equilibri*" => "Nash equilibria" / "Nash equilibrium"

Step 3: Search Strategy – Search Tools

Couple your synonyms and concepts with booleans:



AND / NOT

"Nash equilibri*" AND (profit OR discount) AND (supermarket OR retail) "Nash equilibri*" & (profit | discount) & (supermarket | retail)

Step 3: Search – Zentralblatt MATH

- Citation Database
- 3 million+ references
- Reviews (from Zentrallblatt)
- European oldest database
- Filter on
 - •MSC
 - Publication type
 - Author
 - Formula!

About Contact General Help FAQ Reviewer Service Subscription Preferences -



Documents	ocuments Authors Journals Classification Software Formu		Formulæ		
?a^?n + ?b^?n=?o	:^?n		 	Q	Examples •
$a^n + b^r$	$a^{n} = c^{n}$				Help 🔻

The formula search is now integrated into the structured zbMATH search, which allows for free combination with other query types. Furthermore, formula queries (as, e.g., given in the Examples) can be refined via the filter functions.

The zbMATH formula search uses the MathWebSearch system, which is a content-based search engine for MathML formulae based on substitution tree indexing. The first prototype is a result of a joint research project of FIZ Karlsruhe with the Jacobs University Bremen, funded by the Leibniz Association, which aims at developing concepts and methods for a semantic analysis and retrieval of mathematical formulae in the zbMATH corpus.

Researchgate.net: Social for Scientists

- Follow a scientists output
- Read publications
- Ask questions
- Get research job suggestions

2 ^G HOME	PROJECTS	QUESTIONS	JOBS	Q ~	Search Q		Add new
PH As	farcel De Je nD isociate Professor iden University, Leide		stitute				Follow
Overview Contr		eline Info	Stats	Scores	Network	Leiden University Mathematical Institute	
right now? Request an overview interested.					Universiteit	and expertise (15)	View all
Yes	No					anctional Analysis 6 Analysis	
40 Research items	941 Reads	560 Citations		View stats	Top c	o-authors Sergei Silvestrov ıll 28.09 · (6 Malardalen University) Follow
39 Articles 1	Data			View details	ക	Christian Svensson III 7.30 · (6) Follow

MathOverFlow: Crowdsourced Answers

- Questions on mathematical topics
- Quality control: up and down voting
- Be nice: don't just ask, answer as well

Can't find the right reference for a theory, see the tag:

Reference-request

for professional mathem free, no registration requ		Here's how it works:	$A^{(A)}_{(A)}$	A
Sign up		Anybody can ask a question	Anybody can answer	The best answers are voted up and rise to the top
				103 People Chatting
plore Our Questio	ons a	ctive 10 featured hot	week month	Homotopy Theory
	reference-request robability fa.functional-analysis	co.combinatorics at.algebraic-topolo rt.representation-theory more tags	gy gr.group-theory	1 hour ago - lentic catachresis
differential-geometry pr.pr	obability fa.functional-analysis	rt.representation-theory more tags		

Step 4: Evaluating information

Read the abstracts and titles of the first pages

- Relevance to research question
- Age of the article
- Does it meet our quality criteria (peer review, references, etc)

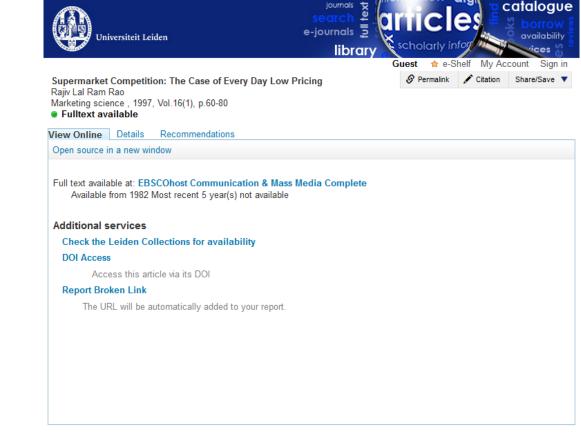
Not relevant, too few or too many? Adjust your search!

Step 5: Using Information - fulltext

- Download the articles via GetIt@Leiden / Full text
- Lookup the book in the <u>Library</u>

UBL has no access?

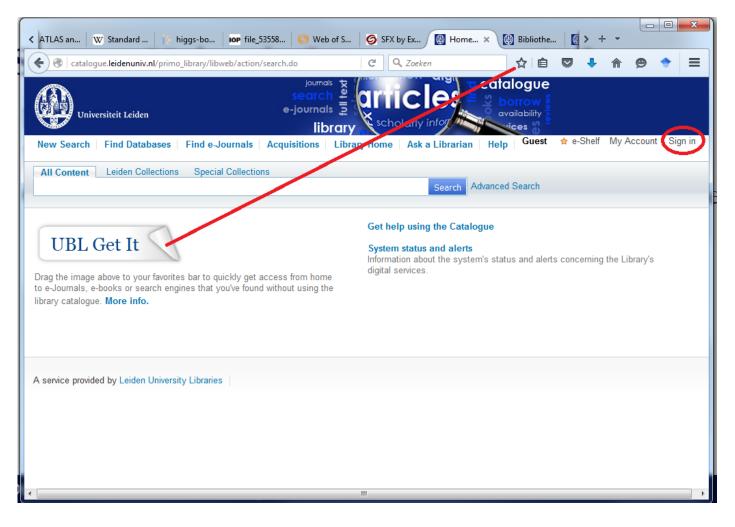
- Book: search on title in Catalogue
- Is a printed version available?
- Search for the article on <u>Google Scholar</u>
- Request from author
- Request a book or article we don't have: <u>Inter Library Loan</u>



Back to results list

Step 5: Using information – At home

- Proxy access: sign in to <u>http://catalogue.leidenuniv.nl</u>
- Bookmark UBL Get IT
- Google Scholar: Settings -> Library Links -> Universiteit Leiden



Step 5: Using Information

When citing:

- Between quotes for literal citation
- Paraphrase in your own words
- Always attribute
- Websites are no exception
- Turnitin software checks for plagiarism





Do your research

- Papers can be retracted if you did not do a proper literature search and gave due credits!
- Google couldn't find it is no excuse!

www.retractionwatch.com

AMERICAN MAT Mathemat	SciN	eť
Previous	Up	Next

MR2969055 (Review) 20M10 Wu, Chong-Yih (RC-NPIC-GED) Citations From References: 0 From Reviews: 0

On right congruences of semigroups having no proper essential right congruences. (English summary) Semigroup Forum 85 (2012), no. 2, 369–380.

A (right) congruence ρ on a semigroup S is essential if the intersection of ρ with any nonidentity (right) congruence is not the identity congruence. The main result of this paper is the characterization of the semigroups, with an identity and without proper essential right congruences, whose lattice of right congruences is a distributive lattice. This result was previously published in a posthumous paper by R. H. Oehmke [Hadronic J. 27 (2004), no. 4, 459–471; MR2123090 (2005m:20147)] that appeared in a journal that is difficult to find and quite unusual for papers on semigroups. *Alessandra Cherubini*

References

- Clifford, A.H., Preston, G.B.: The Algebraic Theory of Semigroups vol. 1. Am. Math. Soc., Providence (1961) MR0132791 (24 #A2627)
- 2. Dean. R.A., Oehmke, R.H.: Idempotent semigroups with distributive right congru-

Step 5: Using information: How to Find

Aust, & Buscher. (2012). Vertical cooperative advertising and pricing decisions in a manufacturer–retailer supply chain: A game-theoretic approach. *European Journal of Operational Research, 223*(2), 473-482. doi: 10.1016/j.ejor.2012.06.042

Step 5: Using Information - Referencing

Reference Management:

- Keep track
- Annotate legibly
- Insert citations in correct format
- Share literature

Managers:

• EndNote, <u>Mendeley</u>, Zotero

Do the <u>tutorial</u> on citing

The East Hererences broups	ps Tools Window Help		1		_ 6
🚱 🚱 TF-A APA	💶 🗉 🧶 🖌 🗲 😒 🔛 🖉	🌮 📀	Quick Search 🔎 💌 🐺 Show	w Search Pr	anel
Library	Author	Year	Title	Ratin 🖍	Reference Preview 1-52.0-5073170851300575X-main.pdf
All References (55)	Al Bratty, Mohammed; Chintapalli, Venkateswara R.; Dow, Jul	2012	Metabolomic profiling reveals that Drosophila		🖸 💾 📥 🖂 👚 🎝 1 /9 🕥 🔿 109% - 👫 😭 🥯 🎶 📑 🖂
Imported References (49)	Anizan, Sebastien; Bichon, Emmanuelle; Duval, Thibault; Mon	2012	Gas chromatography coupled to mass spectro		
Unfiled (55)	Baoutina, Anna; Alexander, Ian E.; Rasko, John E. J.; Emslie, Ke	2008	Developing strategies for detection of gene d	1	
Trash (63)			Analytical challenges in the detection of pepti		Journal of Pharmacourtical and Biomodical Analysis 99 (2014) 139-147
	 Boccard, Julien; Badoud, Flavia; Grata, Elia; Ouertani, Samia; H 		Urine metabolomics by UHPLC-QTOF-MSE: ste		
My Groups	Boccard, Julien; Badoud, Flavia; Jan, Nicolas; Nicoli, Raul; Sch		Untargeted profiling of urinary steroid metab		Contents lists available at ScienceDirect
- Find Full Text	Boyard-Kieken, Fanny; Dervilly-Pinel, Gaud; Garcia, Patrice; P		Comparison of different liquid chromatograph		Journal of Pharmaceutical and Biomedical Analysis
		2008	Metabolomic profiling of a modified alcohol liq		
	 Cosmi, Erich; Visentin, Silvia; Favretto, Donata; Tucci, Mariann 		Selective intrauterine growth restriction in m	1	ELSEVIER journal homepage: www.elsevier.com/locate/jpba
			Basics of mass spectrometry based metabolom		Review
		2012	Implementation of a semi-automated strategy		Sweets A sample with limited present applications and promising
		2011	Assessment of two complementary liquid chro		future in metabolomics
			1H-NMR-based metabolic analysis of human se		A. Mena-Bravo ^{a,b,c} , M.D. Lugue de Castro ^{a,b,c,*}
		. 2005	Homeostatic signature of anabolic steroids in c		A. Mena–Bravo ¹¹⁰⁰⁰ , M.D. Luque de Castro ¹¹⁰⁰⁰⁰
	Duntas, Leonidas H.; Popovic, Vera	2013	Hormones as doping in sports		 ¹ University of Colordon Agroommentary Excellence Computer of a solution and the solution of th
	Fischetto, Giuseppe; Bermon, Stephane	2013	From gene engineering to gene modulation an		A
	Gorynski, Krzysztof; Bojko, Barbara; Nowaczyk, Alicja; Bucins	2013	Quantitative structure-retention relationships	E	A R T I C L E I N F O A B 08/28/2015 03:18 PM [2]
	Guillarme, Davy; Veuthey, Jean-Luc	2013	State-of-the art of (UHP)LC-MS(-MS) techniq		Article history: Swea to demonstrate the advan-
	Hall, L. Mark; Hall, Lowell H.; Kertesz, Tzipporah M.; Hill, Denn	2012	Development of Ecom50 and Retention Index		Accepted 22 October 2013 when Sweating it out at the gym implets and equipment for
	Kieken, Fanny; Pinel, Gaud; Antignac, Jean-Philippe; Monteau,	. 2009	Development of a metabonomic approach bas		analy ine analyses in sweat as is that i at versus urine or blood for
	Kiss, Agneta; Bordes, Claire; Buisson, Corinne; Lasne, Francois	2014	Data-handling strategies for metabonomic stu		Sweat ethan
	Kiss, Agneta; Lucio, Marianna; Fildier, Aurelie; Buisson, Corinn	2013	Doping control using high and ultra-high resol		Genomics meta printer develop- protexnings ment protections and the second seco
	Mena-Bravo, A.; Luque de Castro, M. D.	2014	Sweat: A sample with limited present applicati		Cystic fibrosis also t nt its emergent implemen- tatio unsolved shortcoming that
	Metzler-Zebeli, Barbara U.; Ertl, Reinhard; Klein, Dieter; Zebe	. 2015	Explorative study of metabolic adaptations to	1	deset rier B.V. All rights reserved.
	Mueller, Daniel C.; Degen, Christian; Scherer, Gerhard; Jahrei	2014	Metabolomics using GC-TOF-MS followed by s		
	Oberacher, Herbert; Whitley, Graeme; Berger, Bernd	2013	Evaluation of the sensitivity of the Wiley regist	1	Contents
	Papaloucas, Marios; Kyriazi, Kyriaki; Kouloulias, Vassilis	2015	Pheromones: A New Ergogenic Aid in Sport?		1. Introduction
	Peterson, Amelia C.; Hauschild, Jan-Peter; Quarmby, Scott T.;	2014	Development of a GC/Quadrupole-Orbitrap m		2. Sweat sampling and analysis
	Pitsiladis, Yannis P.; Durussel, Jerome; Rabin, Olivier		An integrative 'omics' solution to the detectio		2.2. Sweat analysis
	Pottgiesser, Torben; Schumacher, Yorck Olaf		Current strategies of blood doping detection		3.1. Routine method for diagnosing CF
	-		Untargeted Metabolomics in Doping Control:		4. Sweat as a sample for doping control
			Metabolomic approach based on liquid chroma		4.2. Sampling and sample preparation for drug analysis
	Reichel, Christian		OMICS-strategies and methods in the fight ag		4.4. Present advantages and disadvantages of sweat as sample for doping control versus other biofluids
	Rieu, Michel		The fight against doping: today and tomorrow		
	 Rijk, Jeroen C. W.; Lommen, Arjen; Essers, Martien L.; Groot, 	2004	Metabolomics Approach to Anabolic Steroid U		1
	 Saini, Angela 	2005	Metabolomics. London's Olympic drug testing I		Abbreviations: ANOVA, analysis of variance; CE, capillary electrophoresis; CF, cystic fibrosis; CFTR, cystic fibrosis transmembrane conductance regulator; Da, Dalton: DAD, diode array detector; DCD, dermcidin; EL, electron impact ionization; ELA, enzyme immunoassay; ELM, enzyme inked immunoassay; ELM, electropray ionization; FID, flame
	 Sauny, Martial; Robinson, Neil; Saudan, Christophe 	2012	The fight against doping: back on track with bl		ionization detector: GC, gas chromatograph/gas chromatography; GHB, gamma byd/oxybytraze; HMDB, human metabolome data base; ISE, ion selective electrode; LC, liquid chromatographiliquid chromatography; LHE, liquid-liquid extraction: LOQ, limit of quantitation; MFTLN, metabolite and tandem MS data base; MS, mass spectrometer/mass
			Detection of EPO doping and blood doping: th		spectrometry; MRMMS, multiple reaction monitoring mass spectrometry; NMR, nuclear magnetic resonance spectroscopy; PCA principal components analysis; PIP, prolactin inducible protein; PLS-DA, partial least squares-discriminant analysis; pROC, partial receiver operating characteristics; R, Robert and Ross programme language; RIA, radio
	 Schuhlacher, Forck Orar, Saugy, Wal tai, Fortglesser, Forben, Shen, Qing; Li, Xin; Qiu, Yunping; Su, Mingming; Liu, Yumin; Li, 		Metabonomic and metallomic profiling in the a		immunoassay: SPE, solid-phase extraction; TOF, time-of-flight; UV, ultravislet. * Corresponding author at: Department of Analytical Chemistry, Annex Marie Curie Building, Campus of Rabanales, University of Córdoba, 14071 Córdoba, Spain.
	 Shen, Qing; Li, Xin; Qiu, Yunping; Su, Wingming; Liu, Yumin; Li., Shi, Xianzhe; He, Zhihui; Dou, Abo; Zhang, Fengxia; Lian, Wenl 		Effect of menthol cigarette on rats for metab		Tel: +34 957218615; fax: +34 957218615. E-mail address: qulucam@uco.es (M.D. Luque de Castro).

Showing 49 of 49 references in Group. (All References: 5)

Assignments

- Do the exercises provided on the hand-out.
- Hand in the evaluation form

Questions? R.m.de.jong@library.leidenuniv.nl



Step 5: Using Information - Problems

GetIt@Leiden for books in MathSciNet and Zentralblatt MATH:

- Based on isbn
- Try searching on **title** and **author** in catalogue
- Check Google Scholar / Google Books
- Try searching specific vendor database:
 - ACM
 - SpringerLink
 - SIAM

Universiteit Leiden	search and	cholarly information
New Search Browse Find Databas Help	ses Find e-Journals Acquisitions I	Library Home Ask a Librarian
Help	ses Find e-Journals Acquisitions L	Library Home Ask a Librarian

0 Results for All Library locations

Didn't find any results?

- · Make sure all words are spelled correctly.
- Try different words.
- Try more general words.
- Try fewer words.
- Remove all punctuation.
- · You may also Ask a Librarian if you have further questions.

MCQ

2014 Citations

to Compos. Math.

in the MR Citation Database

Citing Year 2014 - Search

Mathematical Citation Quotient for 2014							
Year	2014 Citations to Journal	Items Published in Journal	MCQ*				
2013	92	84 (80% cited)					
2012	89	69 (90% cited)					
2011	106	72 (94% cited)					
2010	69	54 (93% cited)					
2009	80	54 (98% cited)					
	436 citations 🕂	333 items 🗧	1.31				

* The 2014 All Journal MCQ is 0.41

201