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—数学及数学交叉学科的科研利器

2016-11-29

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为什么要用？

怎么用

还有什么亮点

出差,在家怎么用？

！彩蛋！

AMS及AMS出版物简介

- 美国数学学会（AMS）
- 《数学评论》网络版（MathSciNet）
- AMS 电子期刊（e-Journal）
- 清华大学数学系优秀科研人员文献使用行为调研
- MathSciNet收录覆盖面分析

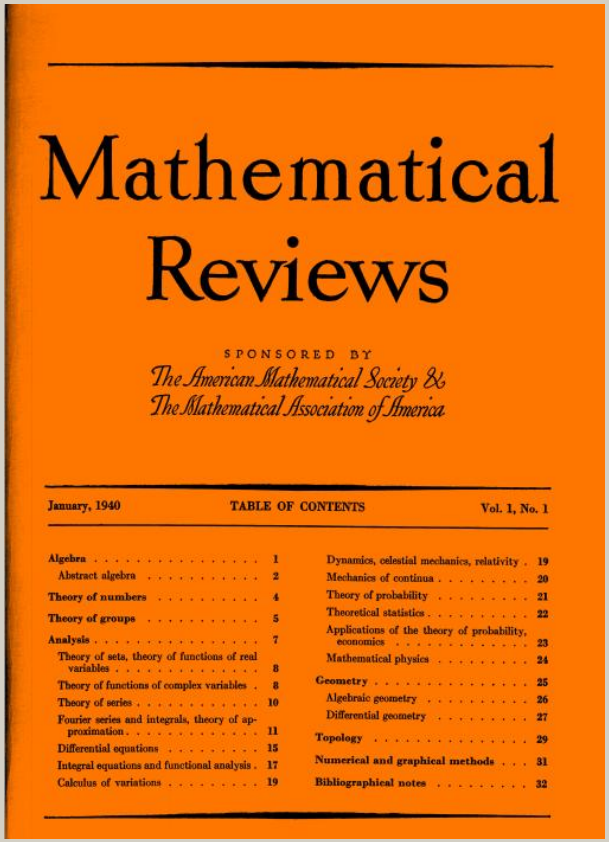
美国数学学会（AMS）简介

- 美国数学学会（AMS）1888年成立
- 全球有超过3万人的个人会员，以及近600个学术机构会员
- 截至2016年11月，超过20,000名MR特约评论员（活跃）
- AMS成立宗旨
  - 促进全球数学领域的研究和交流
  - 为数学教育的各个领域提供支持和服务
  - 提升数学的专业性，并且鼓励和协助个人积极参与
  - 促进数学与其他研究领域相互交流

订阅MathSciNet的高校（部分）

国外	国内
Harvard University	北京大学
Princeton University	清华大学
Yale University	南开大学
M.I.T	复旦大学
Stanford university	中国科技大学
Duke University	北京师范大学
Johns Hopkins University	南京大学
Cornell Univaersity	南京师范大学
Vanderbilt University	江苏师范大学
University of California Berkeley	淮阴师范学院
Carnegie Mellon	东南大学
New York University	浙江大学

《数学评论》网络版（MathSciNet）



Mathematical Reviews

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January, 1940 TABLE OF CONTENTS Vol. 1, No. 1

《数学评论》（Mathematical Reviews）是美国数学学会1940年开始发行的一份期刊，内含对数学、统计学与计算机科学领域出版物的摘要和评论内容。

创刊号于1940年1月份发行
第一期包括32页，176条评论。

该刊创始编辑有数学史家O. 诺伊格鲍尔(Neugebauer，1899-1990)、数学家J.D. 塔马金(Tamarkin，1888-1945)和O. 维布伦(veblen，1880-1960)。

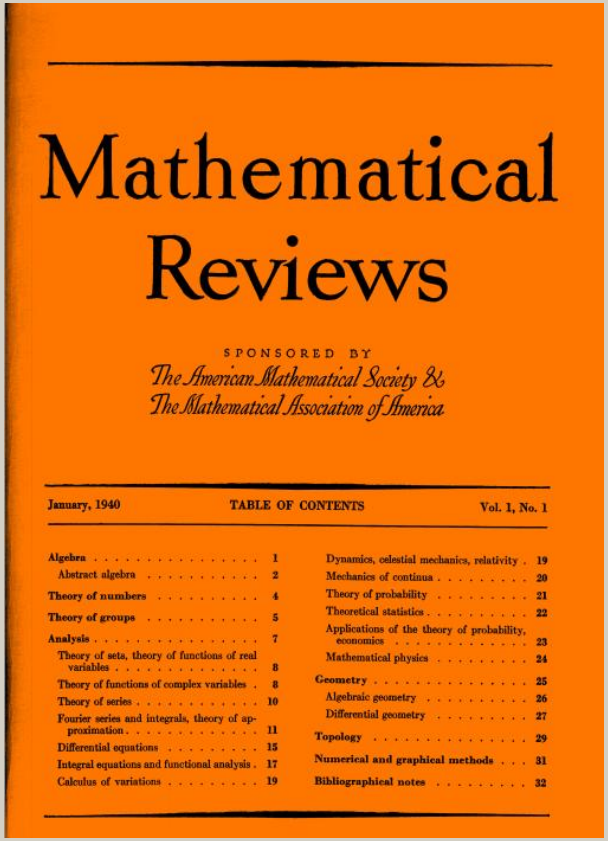
《数学评论》网络版（MathSciNet）

创始编辑Otto Neugebauer奥托·诺伊格鲍尔

MSN创世编辑奥托·诺伊格鲍尔主张：“对于无价值论文要充分揭示，不要浪费数学家宝贵的时间；而重要论文要让人们去阅读”的独特科学文献编纂思想。

MathSciNet在如今信息泛滥、鱼龙混杂的时代，对于数学研究人员及数学相关文献工作者带来巨大的帮助。

《数学评论》网络版（MathSciNet）



Mathematical Reviews

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January, 1940 TABLE OF CONTENTS Vol. 1, No. 1

《数学评论》（Mathematical Reviews）撰写评论条目的评论员由编辑部直接聘请。

Mathematical Reviews从一开始就享有极高声誉，冯诺依曼、爱因斯坦等学者均为其评论员，很快，MR就成为数学领域利用最广泛的数学刊物之一。

该刊为月刊，每6期为一卷，年底有作者索引和内容索引各一册。

从2013年起该刊停止出版纸质版。

《数学评论》网络版（MathSciNet）

- MathSciNet收录量
  - **1800+种期刊（约330万条记录）**、**10万+种图书**、**约40万篇会议录**
  - 260余万个全文链接，可直接链接至在线期刊等出版物（Elsevier、Springer等）
  - 年均增加120,000+ 记录及数万篇评论全文
- MathSciNet收录总量
  - 截至2012年，2,809,767份出版物记录及评价
  - 截至2013年，2,912,131份出版物记录及评价
  - 截至2014年，3,098,081份出版物记录及评价
  - 截至2017年，3,382,083份出版物记录及评价

AMS 电子期刊（ eJournal ）

美国数学学会的期刊质量非常高。其中Journal of American Mathematical Society（JAMS） 在2013年全球289种纯数学类期刊中影响因子排名第一。 此外，TRANS of AMS、MEMO of AMS等AMS刊物也常年位居数学类期刊前列，国内订户主要订阅的八种期刊如下：

AMS eJournals		
Journal of the American Mathematical Society.	《美国数学会志》	0894-0347
Transactions of the American Mathematical Society.	《美国数学会汇刊》	0002-9947
Proceedings of the American Mathematical Society.	《美国数学会会报》	0002-9939
Transactions of the Moscow Mathematical Society.	《莫斯科数学会汇刊》	0077-1554
Theory of Probability and Mathematical Statistics.	《概率论与数理统计学》	0094-9000
St. Petersburg Mathematical Journal.	《圣彼得堡数学杂志》	1061-0022
Memoirs of the American Mathematical Society.	《美国数学学会论文集》	0065-9266
Mathematics of Computation.	《计算数学》	0025-5718

AMS还出版了两份OA期刊（目前数学领域读者群最多）：Notice of the AMS、Bulletin of the AMS

清华大学数学系科研人员使用文献行为调研

清华大学图书馆曾晓牧在2013年对清华大学数学系科研人员调研访谈如下：

调研方式：访谈。7位当面访谈，3位电话访谈，2位电邮访谈

调研对象：5位教授、7位副教授；均为科研工作优秀（长江学者、国家杰出青年基金获得者或发表SCI论文排名居前）；且均有海外学习或工作经验；

调研问题：

1. 使用哪些类型的文献？
2. 使用哪些数据库？
3. 除了图书馆的资源，还使用哪些检索工具？

MathSciNet®
AMS
American Mathematical Society

2.1 访谈方案设计

(1)访谈对象选取。笔者共选取了12位教师(5位教授,7位副教授)作为访谈对象,选取原则如下:

一是覆盖不同的研究方向。清华大学数学系按研究方向分为三个研究所:基础数学研究所、应用数学与概率统计研究所、计算数学与运筹学研究所,访谈对象来自三个不同的研究所。

二是科研工作优秀。访谈对象是长江学者,或是国家杰出青年基金获得者,或是近几年发表的SCI收录论文数排名在数学系前列的教师。

三是有海外学习或工作背景,既使用过国内图书馆,也了解国外图书馆的资源与服务。

(2)访谈方法。采用当面访谈、电话访谈或电子邮件访谈。首选当面访谈和电话访谈,因为访谈者可及时解释访问的内容,受访者可便捷完整地表述个人观点。12位受访者中,7位接受了当面访谈,3位是电话访谈,2位是电子邮件访谈。

(3)访谈内容由三个问题构成:

a. 在科研工作中,您使用哪些类型的文献(图书、期刊、会议论文……)?

b. 在科研工作中,您使用图书馆购买的哪些数据库?

c. 除了图书馆购买的数据库,在科研工作中,您还使用哪些检索工具?

2.2 访谈结论

(1)在科研工作中,最常用的文献类型是期刊论文;会议论文会用到,但不会专门去检索查找;图书使用得较少。

(2)最常用的数据库是美国《数学评论》(MathSciNet,由美国数学学会编辑),有1位老师使用德国《数学文摘》(Zentralblatt MATH,由欧洲数学学会等三个机构共同编辑)。这两个数据库收录的是数学学科期刊论文、会议论文和图书的文摘与评论,特色是:很全面地收录数学学科文献;很多文章有同行评论,通过同行评论可了解文章的价值,同时老师们也比较关注自己文章的同行评论。

至于SCI数据库,科研时并不使用,只用于科研评价,在评职称、报奖时检索论文的收录引用情况。

[illegible]论文的参考文献,来了解数学科研工作中常用到的期刊。

检索式是:地址=((tsinghua univ or tsing hua univ) same (Dept Math Sci) same (bei jing or beijing)) AND 出版年=(2010-2012)。

共检索出426篇文章,其中有2篇论文没有参考文献,其余424篇文章共有参考文献9009篇,将下载的参考文献导入Excel中,进行处理分析。

3.2 引文分析结论

www.ams.org/mathscinet

MathSciNet在清华大学数学系的使用调研

访谈结论如下：

使用最多的文献类型：期刊

最常用的数据库：**MathSciNet**

除图书馆订购的资源外，最常用的OA资源为：arXiv.org [a:kaiv]

科研人员使用MathSciNet数据库的原因：

- ✓ 很全面地收录数学学科文献
- ✓ 很多文章有同行评论
- ✓ 通过同行评论可了解文章的价值
- ✓ 同时也可以关注到自己所发文章的同行评论

MathSciNet收录数学文献是否全面？

对MathSciNet收录的文献覆盖面分析

—以MCQ TOP 50 期刊、TOP 10 图书为例

MCQ全称为Mathematical Citation Quotient（数学引用指数），为MathSciNet内部出版物的被引指标，类似WOS的IF

Author Citations | Journal Citations | Search by Subject | Search by Year | Top 10 Lists

Top Journal MCQs
cited in the MR Citation Database

Select List: Journals by MCQ | Citing Year: 2014 | Items to display: 50

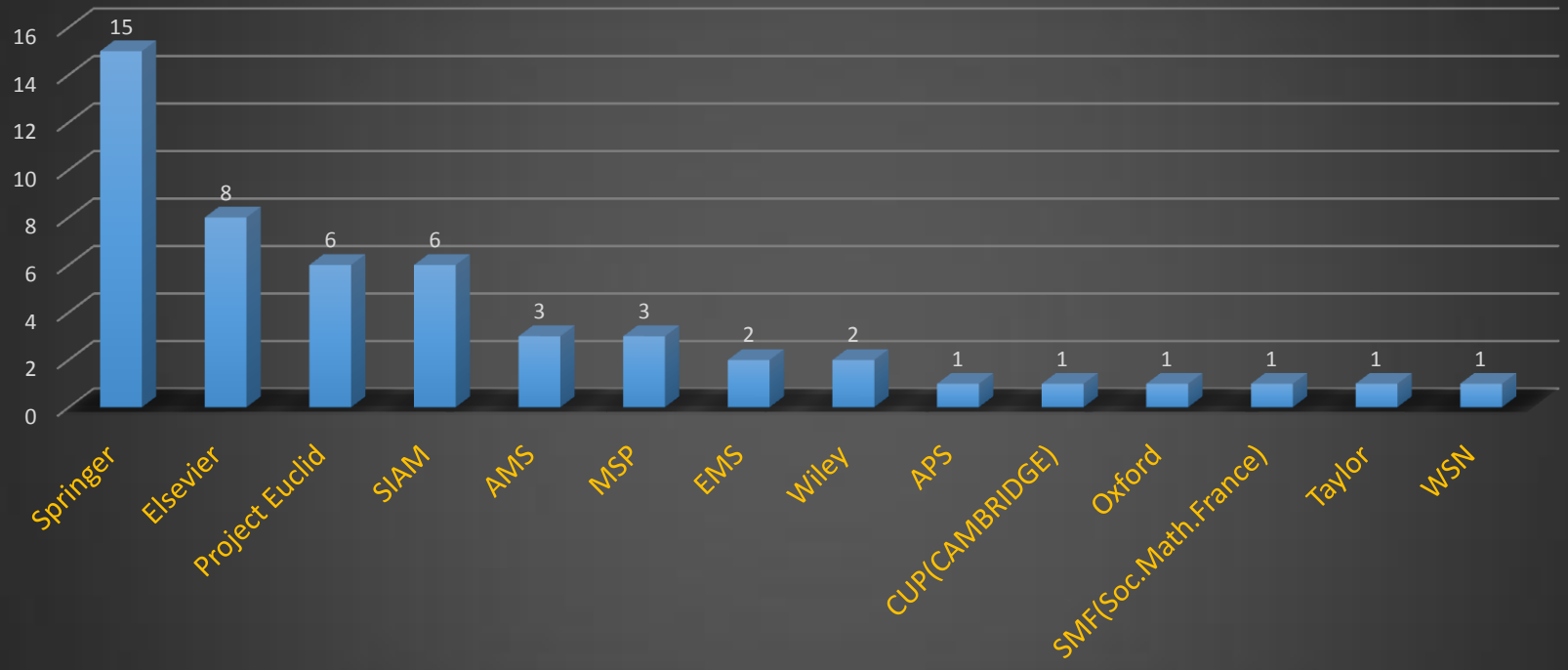
Submit

MCQ TOP 50 期刊(1-18)所在的出版社

MCQ	Journal Abbreviation	Publisher
6.25 (89% cited)	Acta Numer.	CUP(CAMBRIDGE UNIV PRESS)
3.66 (98% cited)	Ann. of Math.	Princeton Univ
3.37 (99% cited)	J. Amer. Math. Soc.	AMS
3.26 (99% cited)	Acta Math.	Springer
2.86 (97% cited)	Inst. Hautes Études Sci. Publ. Math.	Springer
2.72 (93% cited)	Comm. Pure Appl. Math.	Wiley
2.65 (95% cited)	Invent. Math.	Springer
2.36 (96% cited)	Arch. Rational Mech. Anal.	Springer
2.10 (95% cited)	Mem. Amer. Math. Soc.	AMS
2.08 (95% cited)	Duke Math. J.	Project Euclid
2.07 (87% cited)	Found. Comput. Math.	Springer
2.06 (84% cited)	Arch. Comput. Methods Engrg.	Springer
2.06 (92% cited)	J. Differential Geom.	Project Euclid
1.98 (93% cited)	SIAM J. Numer. Anal.	SIAM
1.94 (93% cited)	J. Eur. Math. Soc. (JEMS)	EMS(Eur. Math. Soc)
1.90 (90% cited)	Ann. Statist.	Project Euclid
1.86 (95% cited)	Geom. Funct. Anal.	Springer
1.86 (93% cited)	Rev. Modern Phys.	APS

1.83 (90% cited)	SIAM J. Optim.	SIAM
1.79 (93% cited)	Anal. PDE	MSP(Math. Sci. Publ)
1.77 (90% cited)	Math. Models Methods Appl. Sci.	WSN
1.72 (77% cited)	SIAM J. Imaging Sci.	SIAM
1.71 (87% cited)	Quantum Topol.	EMS
1.70 (96% cited)	Ann. Sci. École Norm. Sup.	SMF(Soc. Math. France)
1.69 (94% cited)	Ann. Inst. H. Poincaré Anal. Non Linéaire	Elsevier
1.63 (91% cited)	J. Differential Equations	Elsevier
1.63 (85% cited)	Comput. Methods Appl. Mech. Engrg.	Elsevier
1.62 (84% cited)	J. Comput. Phys.	Elsevier
1.62 (93% cited)	Amer. J. Math.	Project Euclid
1.60 (90% cited)	J. Math. Pures Appl. (9)	Elsevier
1.60 (90% cited)	Ann. Probab.	Project Euclid
1.60 (92% cited)	Calc. Var. Partial Differential Equations	Springer
1.59 (92% cited)	Adv. in Math.	Elsevier
1.56 (86% cited)	SIAM J. Sci. Comput.	SIAM
1.55 (95% cited)	Numer. Math.	Springer
1.55 (90% cited)	Comm. Partial Differential Equations	Taylor
1.54 (87% cited)	SIAM J. Matrix Anal. Appl.	SIAM
1.53 (80% cited)	Probab. Surv.	Project Euclid
1.52 (92% cited)	Geom. Topol.	MSP
1.49 (93% cited)	Probab. Theory Relat. Fields	Springer
1.44 (90% cited)	J. Functional Analysis	Elsevier
1.42 (84% cited)	J. R. Stat. Soc. Ser. B. Stat. Methodol.	Wiley
1.41 (79% cited)	J. Complexity	Elsevier
1.39 (92% cited)	Comm. Math. Phys.	Springer
1.39 (87% cited)	Finance Stoch.	Springer
1.39 (91% cited)	IMA J. Numer. Anal.	Oxford
1.38 (80% cited)	Math. Programming	Springer
1.37 (85% cited)	Japan. J. Math. (N.S.)	Springer
1.37 (82% cited)	J. Sci. Comput.	Springer
1.35 (88% cited)	SIAM J. Math. Anal.	SIAM

MathSciNet TOP 50期刊来源出版社分布图



Top Books
cited in the MR Citation Database

Select List: Books | Citing Year: 2014 | Items to display: 10

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MCQ TOP 10 图书（2014年）所属出版社

Citations	Publication		
346	**MR1658022 (99m:26009)** Podlubny, Igor Fractional differential equations. An introduction to fractional derivatives, fractional differential equations, to methods of their solution and some of their applications. Mathematics in Science and Engineering, 198. *Academic Press, Inc., San Diego, CA,* 1999. xxiv+340 pp. ISBN: 0-12-558840-2 (Reviewer: Anatoly Kilbas) 26A33 (34K05)	Book	Academic Press, Inc., San Diego
268	**MR0463157 (57 #3116)** Hartshorne, Robin Algebraic geometry. Graduate Texts in Mathematics, No. 52. *Springer-Verlag, New York-Heidelberg,* 1977. xvi+496 pp. ISBN: 0-387-90244-9 (Reviewer: Robert Speiser) 14-01	Book	Springer-Verlag,
265	**MR0450957 (56 #9247)** Adams, Robert A. Sobolev spaces. Pure and Applied Mathematics, Vol. 65. *Academic Press [A subsidiary of Harcourt Brace Jovanovich, Publishers], New York-London,* 1975. xviii+268 pp. (Reviewer: A. Kufner) 46E35	Book	Harcourt Brace Jovanovich
262	**MR0290095 (44 #7280)** Stein, Elias M. Singular integrals and differentiability properties of functions. Princeton Mathematical Series, No. 30 *Princeton University Press, Princeton, N.J.* 1970 xiv+290 pp. (Reviewer: R. E. Edwards) 46.38 (26.00)	Book	Princeton University Press
260	**MR1814364 (2001k:35004)** Gilbarg, David; Trudinger, Neil S. Elliptic partial differential equations of second order. Reprint of the 1998 edition. Classics in Mathematics. *Springer-Verlag, Berlin,* 2001. xiv+517 pp. ISBN: 3-540-41160-7 35-02 (35Jxx)	Book	Springer-Verlag
250	**MR2218073 (2007a:34002)** Kilbas, Anatoly A.; Srivastava, Hari M.; Trujillo, Juan J. Theory and applications of fractional differential equations. North-Holland Mathematics Studies, 204. *Elsevier Science B.V., Amsterdam,* 2006. xvi+523 pp. ISBN: 978-0-444-51832-3; 0-444-51832-0 (Reviewer: B. S. Rubin) 34-02 (26A33 33C90 34A99 35-02 45-02)	Book	Elsevier Science B.V
246	**MR1232192 (95c:42002)** Stein, Elias M. Harmonic analysis: real-variable methods, orthogonality, and oscillatory integrals. With the assistance of Timothy S. Murphy. Princeton Mathematical Series, 43. Monographs in Harmonic Analysis, III. *Princeton University Press, Princeton, NJ,* 1993. xiv+695 pp. ISBN: 0-691-03216-5 (Reviewer: Michael Cowling) 42-02 (35Sxx 43-02 47G30)	Book	Princeton University Press
245	**MR0710486 (85g:47061)** Pazy, A. Semigroups of linear operators and applications to partial differential equations. Applied Mathematical Sciences, 44. *Springer-Verlag, New York,* 1983. viii+279 pp. ISBN: 0-387-90845-5 (Reviewer: H. O. Fattorini) 47D05 (34Gxx 35Fxx 35Gxx 47H20)	Book	Springer-Verlag
240	**MR0274683 (43 #445)** Rockafellar, R. Tyrrell Convex analysis. Princeton Mathematical Series, No. 28 *Princeton University Press, Princeton, N.J.* 1970 xviii+451 pp. (Reviewer: Ky Fan) 26.52 (46.00)	Book	Princeton University Press
231	**MR1625845 (99e:35001)** Evans, Lawrence C. Partial differential equations. Graduate Studies in Mathematics, 19. *American Mathematical Society, Providence, RI,* 1998. xviii+662 pp. ISBN: 0-8218-0772-2 (Reviewer: Luigi Rodino) 35-01	Book	American Mathematical Society

可看出仅TOP 50的期刊就分布在14个出版商（数据库）中，而多数图书馆很难把这些数据库买全，TOP 10的图书获分布更加分散。

通过MathSciNet，则可以系统、完整的了解分布在各出版社数学领域的各类文献。

Web of Science？

以清华大学的调研报告为例，WOS的使用场景主要是评职称、报奖时查引用情况。

Google Scholar？

百度学术？

Google Scholar、百度学术等搜索引擎没有对收录文献做专业标引（作者署名、作者单位信息、MSC分类等），但有收录面广而杂的特点，可补充使用。

提纲

- AMS及AMS出版物简介
- MathSciNet功能演示
- AMS 电子刊浏览及检索功能演示
- MathSciNet校外访问
- AMS主站及其他资源介绍
- FAQ

MathSciNet功能演示

- 出版物检索、粘贴板（Clipboard）、期刊检索、分类法检索
- 作者检索、erdos指数
- 基于引文的文献分析功能（Citation）
- 其它工具：MRLookup、INSTCode、镜像站点切换
- MathSciNet在2017年即将上线的新功能
  - 多种排序
  - 检索结果精炼（筛选）
  - 邮件订阅

MathSciNet® 出版物检索

AMS American Mathematical Society

AMERICAN MATHEMATICAL SOCIETY
MathSciNet
Mathematical Reviews
ISSN 2167-5163

漫游设备中显示的可访问剩余期限（33天）

Shanghai University 33

Publications | Authors | Journals | Citations

检索功能选择

Search Terms

MSC Primary		and
Institution		and
Institution		and
Anywhere		

Time Frame
- (•) Entire Database
- ( ) = Year
- ( ) Year Range: to

Publication Type
- (•) All
- ( ) Books
- ( ) Journals
- ( ) Proceedings

Review Format
- ( ) PDF
- (•) HTML

Search | Clear

检索条件限制选项选择

Facts and Figures: 3,382,083 total publications

Help | Support Mail

MSC2020 Revision. Mathematical Reviews and zbMATH have launched our cooperative effort to revise the Mathematics Subject Classification (MSC) scheme. For more information and to provide your input, please visit msc2020.org.

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AMS American Mathematical Society

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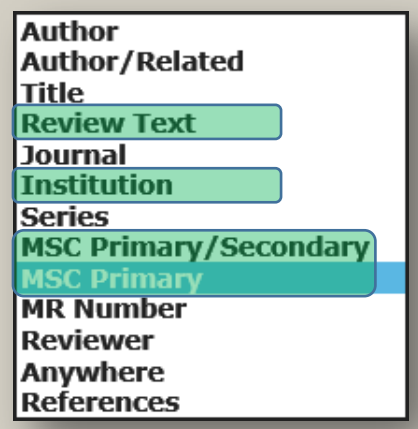
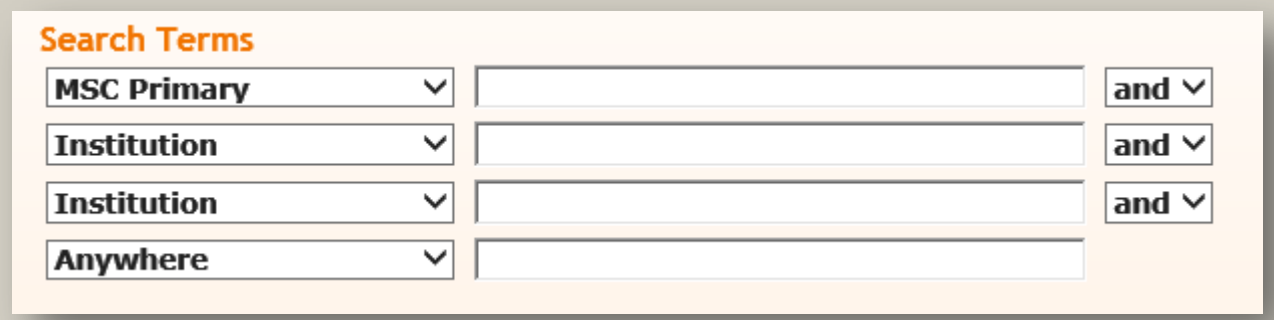
检索入口





相较于其他数据库，MathSciNet特有的检索入口与特点包括：

评论正文：MR评论员发表的评论正文

机构信息：文献作者所在机构的信息（国别、地市名、学校名称、二级学院名称及机构特定代码）

MSC分类：MathSciNet中收录的绝大多数记录都标注有详细的MSC分类号（可选择检索主分类）

模糊匹配：MathSciNet支持模糊匹配，如**Math* Rev***

精确检索：MathSciNet与互联网搜索引擎类似，两个关键词之间用空格分开时，为 AND 关系，且字间距无限制，如需精确检索，可用双引号限定，如“**body problem**”

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MR3614782 Prelim Barbosa Torres dos Santos, Leonardo; Bertachini de Almeida Prado, Antonio F.; Merguizo Sanchez, Diogo; Equilibrium points in the restricted synchronous three-body problem using a mass dipole model. *Astrophys. Space Sci.* 362 (2017), no. 3, 362:61. 70F07 (70F15)
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MR3614340 Prelim Yiwang, Chen; Jiazheng, Ni; Yawen, Liu; Xiaohua, Dong; Pin, Zhang; The Alternating Direction Implicit Body of Revolution Multiresolution Time Domain Method with Convolution Perfect Matched Layer. *Math. Probl. Eng.* 2017, Art. ID 2073563, 8 pp.
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MR3612975 Prelim Brandão Dias, Lúcia; Delgado, Joaquín; Vidal, Claudio; Dynamics and Chaos in the Elliptic Isosceles Restricted Three-Body Problem with Collision. *J. Dynam. Differential Equations* 29 (2017), no. 1, 259–288. 70F15 (37N05 70F07)
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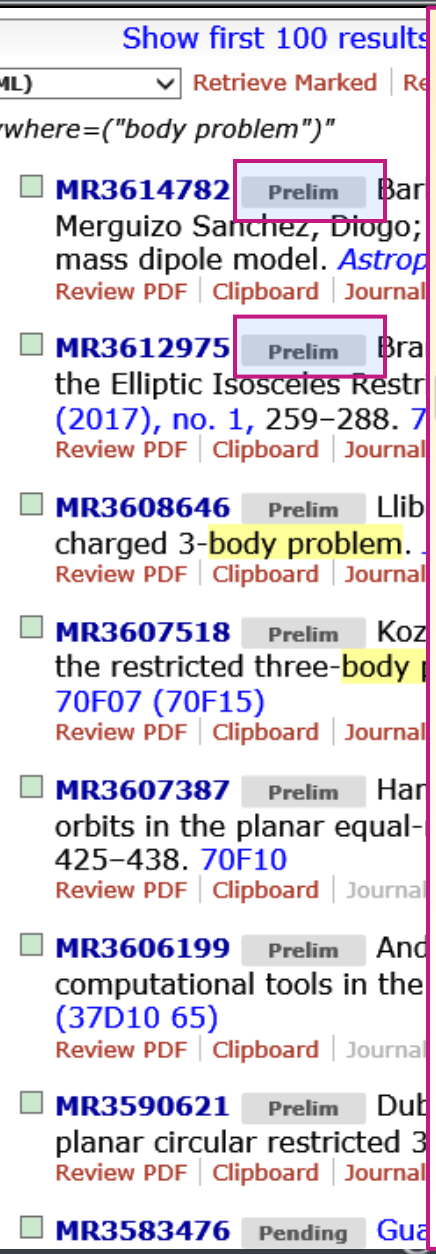

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Borodin, Alexei; Corwin, Ivan;
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Ann. Probab. 42 (2014), no. 6

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MR3221945 Pending
Borodin, Alexei(1-MIT)
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Volume 42, Number 6 (2014), 2314-2382.

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From duality to determinants for *q*-TASEP and ASEP

Alexei Borodin, Ivan Corwin, and Tomohiro Sasamoto

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MR0005782 (3,206d) Reviewed

Bochner, S.

Hilbert distances and positive definite functions.

Ann. of Math. (2) **42,** (1941). 647–656.

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Let $\mathfrak{S}$ be a separable and compact space with a Lebesgue measure possessing the usual properties, and $\mathfrak{C}$ a transitive group of motions $s: P \to sP$ in $\mathfrak{S}$. A function $F(P,Q,\cdots)$ in $\mathfrak{S}$ is called group invariant if $F(sP,sQ,\cdots) \equiv F(P,Q,\cdots)$ for all $s \epsilon \mathfrak{C}$. The main subject of this paper is the study of those group-invariant metrics $\rho(P,Q)$ in $\mathfrak{S}$ (generating the given topology of $\mathfrak{S}$, possibly with identifications) with which $\mathfrak{S}$ can be imbedded isometrically into Hilbert space, that is, the Hilbert distances in $\mathfrak{S}$. Following K. Menger [Math. Ann. **103,** 466–501 (1930)] and I. J. Schoenberg [Ann. of Math. (2) **41,** 715–726 (1940); cf. MR0002903], a connection is established between these distances and the positive functions of $\mathfrak{S}$, that is, those continuous and group-invariant functions $f(P,Q)$ for which

$$\sum_{i,j=1}^{n} f(P_i,P_j)\rho_i\overline{\rho_j} \geq 0$$

for all finite systems P_i, ρ_i, $i = 1,\cdots,n$. Then $\rho(P,Q)$ turns out to be a Hilbert distance if and only if it is of the form $(C - f(P,Q))^{\frac{1}{2}}$, $f(P,Q)$ being any positive function in $\mathfrak{S}$ (C is the constant value of $f(\phi,\phi)$).

The representation theory of $\mathfrak{C}$ in $\mathfrak{S}$ following Bochner, J. v. Neumann and H. Weyl is carefully gone into, and explicit forms for $\rho^2(P,Q)$-s orthogonal expansions in representation functions of $\mathfrak{C}$ in $\mathfrak{S}$ are obtained. They turn out to be absolutely and uniformly convergent expressions of the absolute value square sum type.

[For the analogous problem of determining the Hilbert distances in the case of (non-compact) vector groups, cf. the theory of screw lines, J. von Neumann and I. J. Schoenberg, Trans. Amer. Math. Soc. **50,** 226–251 (1941); cf. MR0004644. For the general theory of positive functions on (non-compact) commutative groups, cf. A. Powzner, C. R. (Doklady) Acad. Sci. USSR (N.S.) **28,** 294–295 (1940), and A. Raikow, C. R. (Doklady) Acad. Sci. USSR (N.S.) **27,** 324–327 (1940); **28,** 296–300 (1940); cf. MR0003460.]

Reviewed by J. von Neumann

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JFM 47.0156.01
Cram□r, H.
Some theorems concerning prime numbers. (Swedish)
[B] Ark. f□r Mat., Astron. och Fys. 15, Nr. 5, 33 S.
Published: 1921
In den 3 ersten Kapiteln wird die Riemannsche Vermutung als wahr angenommen. \par 1. p_n bezeichne die n-te Primzahl. Die bekannte Formel $$p_{n+1}-p_n = O ganzen $n < x$ ist, f□r die zwischen n^2 und $(n +1)^2$ keine Primzahl liegt, ist $$q(x) = O(x^{ \frac 23} \log^3 x).$$ \par 3. $\psi(x)$ bedeute die Tschebyschefsche und f□r jedes wachsende positive $h(x),$ welches $= O(x)$ ist, $$ \frac 1h \int_1^{x+h} \left\vert \frac {\psi(t)-t}{\sqrt t}\right\vert dt=O \left(\sqrt{ \frac xh}\right).$$ \p algebraischen Zahlk□rper n-ten Grades der Grundzahl $\Delta,$ wenn r_1 die Anzahl der konjugierten reellen K□rper, h die Anzahl der positiven Wurzeln der Fu bewiesen: $$\lim_{T =\infty} \frac 1T \int_0^T R(v)dv =1- \frac 18 r_1- \frac 12 h.$$
[**Landau, Prof. (G□ttingen)**]
Subject heading: Zweiter Abschnitt. Arithmetik und Algebra. Kapitel 8. Algebraische Zahlen. Analytische Zahlentheorie.

1. R
2. A
3. N
4. D

06466325. http://dx.doi.org/10.1007/s00039-015-0324-9. MR3361771

5. H. Cramér, Some theorems concerning prime numbers, *Ark. Mat. Astr. Fys.* **15** (1920), 1–33. JFM 47.0156.01.
6. H. Cramér, On the order of magnitude of the difference between consecutive prime numbers, *Acta Arith.* **2** (1936), 23–46. Zbl 0015.19702.
7. H. Davenport, *Multiplicative Number Theory*, third ed., *Graduate Texts in Math.* **74**, Springer-Verlag, New York, 2000. MR 1790423. Zbl 1002.11001. MR1790423

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Publications results for "Items authored by Tao, Terence C."

MR3488740 Reviewed

Ford, Kevin(1-IL-NDM); Green, Ben(4-OX); Konyagin, Sergei(RS-AOS); Tao, Terence(1-UCLA-NDM)

Large gaps between consecutive prime numbers. (English summary)

Ann. of Math. (2) 183 (2016), no. 3, 935–974.

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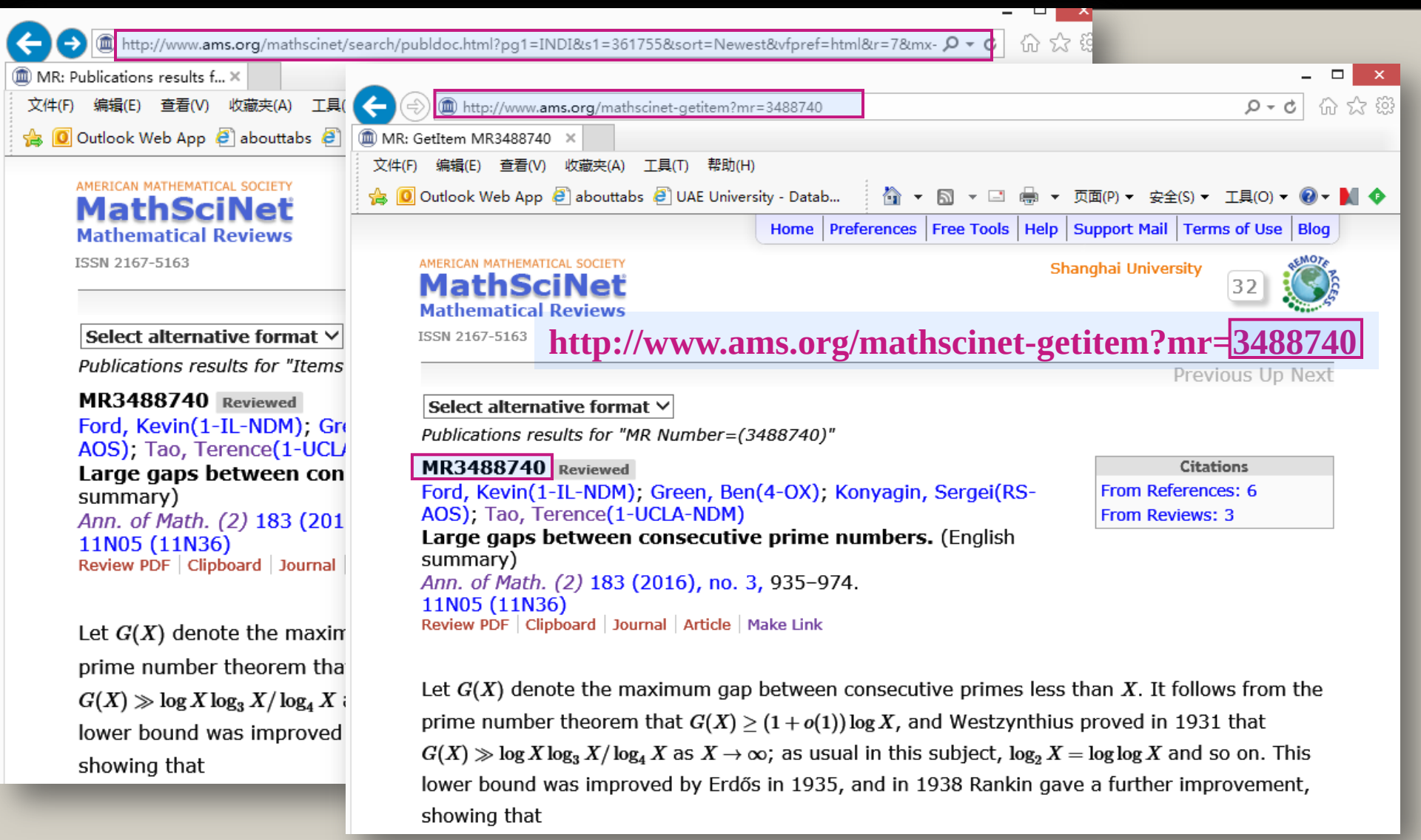

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Konyagin, Sergei [Konyagin, Sergei V.] (RS-AOS);
Tao, Terence [Tao, Terence C.] (1-UCLA-NDM)

Large gaps between consecutive prime numbers. (English summary)

Ann. of Math. (2) **183** (2016), *no. 3*, 935–974.

Let $G(X)$ denote the maximum gap between consecutive primes less than X. It follows from the prime number theorem that $G(X) \geq (1+o(1)) \log X$, and Westzynthius proved in 1931 that $G(X) \gg \log X \log_3 X / \log_4 X$ as $X \to \infty$; as usual in this subject, $\log_2 X = \log \log X$ and so on. This lower bound was improved by Erdős in 1935, and in 1938 Rankin gave a further improvement, showing that

$$G(X) \geq (c+o(1)) \frac{\log X \log_2 X \log_4 X}{(\log_3 X)^2},$$

with $c = 1/3$. Again, the constant c has been improved several times till Pintz's result $c = 2e^{\gamma}$ in 1997, and Erdős conjectured that c can be taken arbitrarily large. In this paper, the authors prove Erdős' conjecture. The proof is based on a combination of previous techniques in the subject with a random construction covering a set of primes by arithmetic progressions, related to the well-known recent work on the existence

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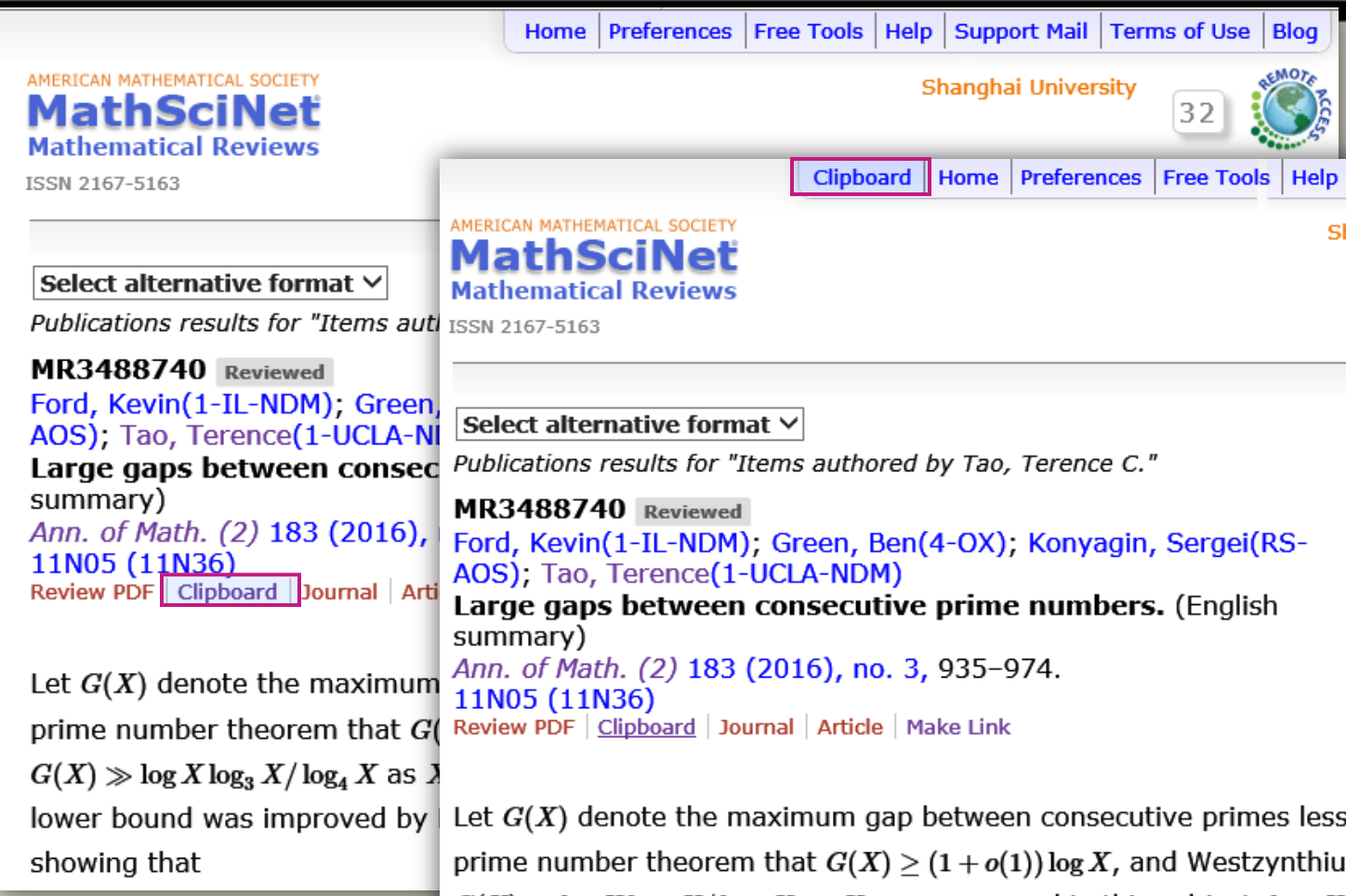

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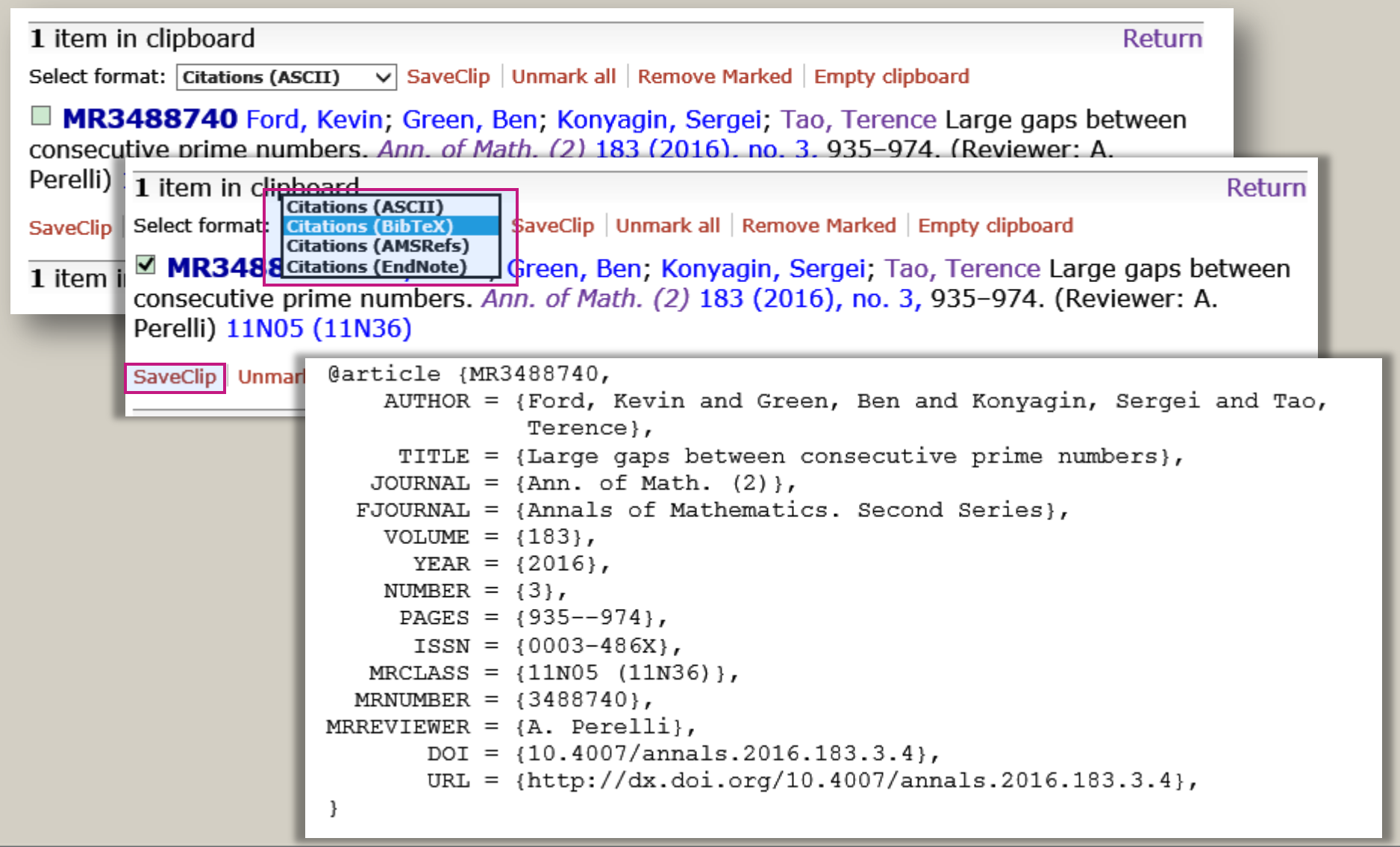

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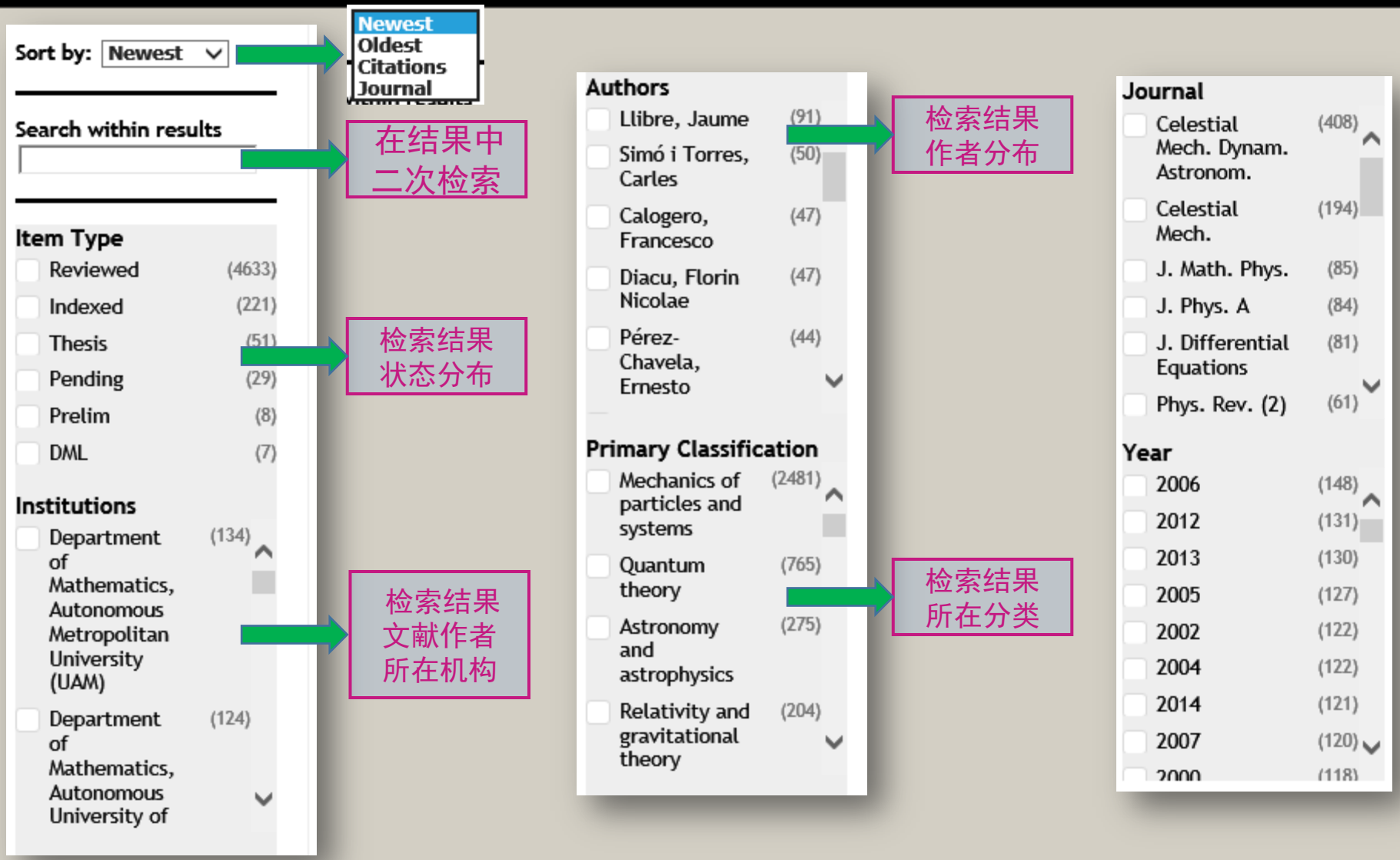

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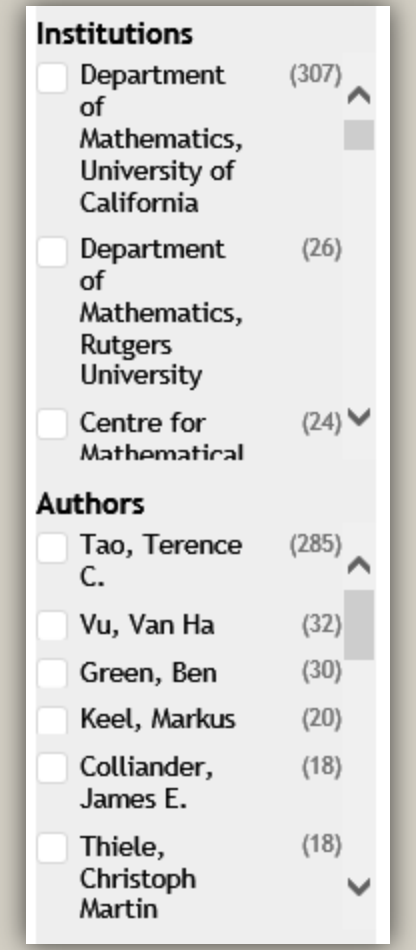

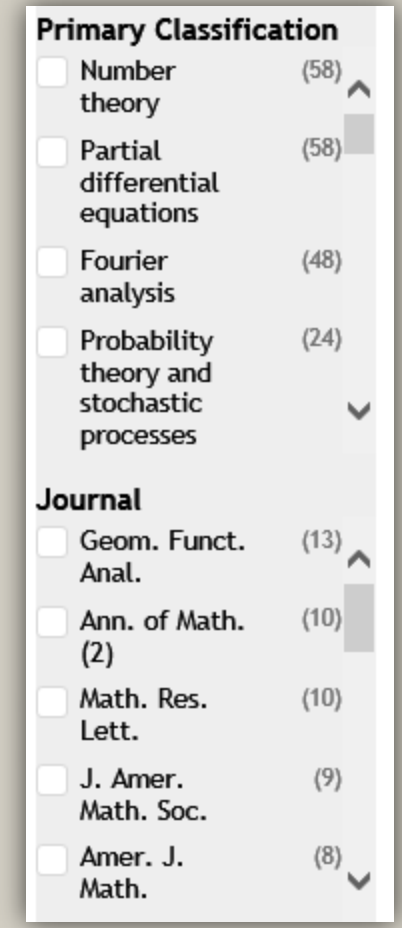

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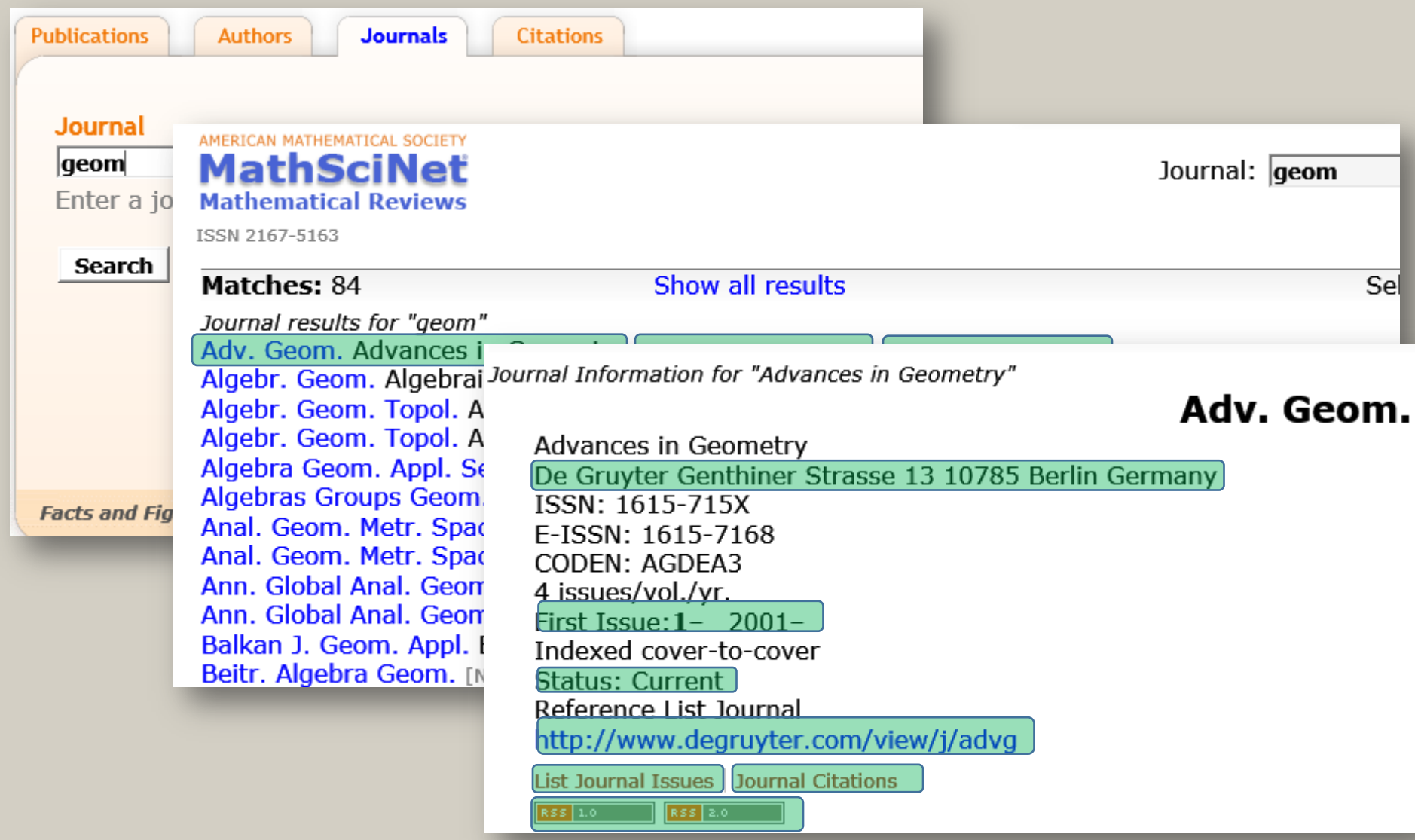

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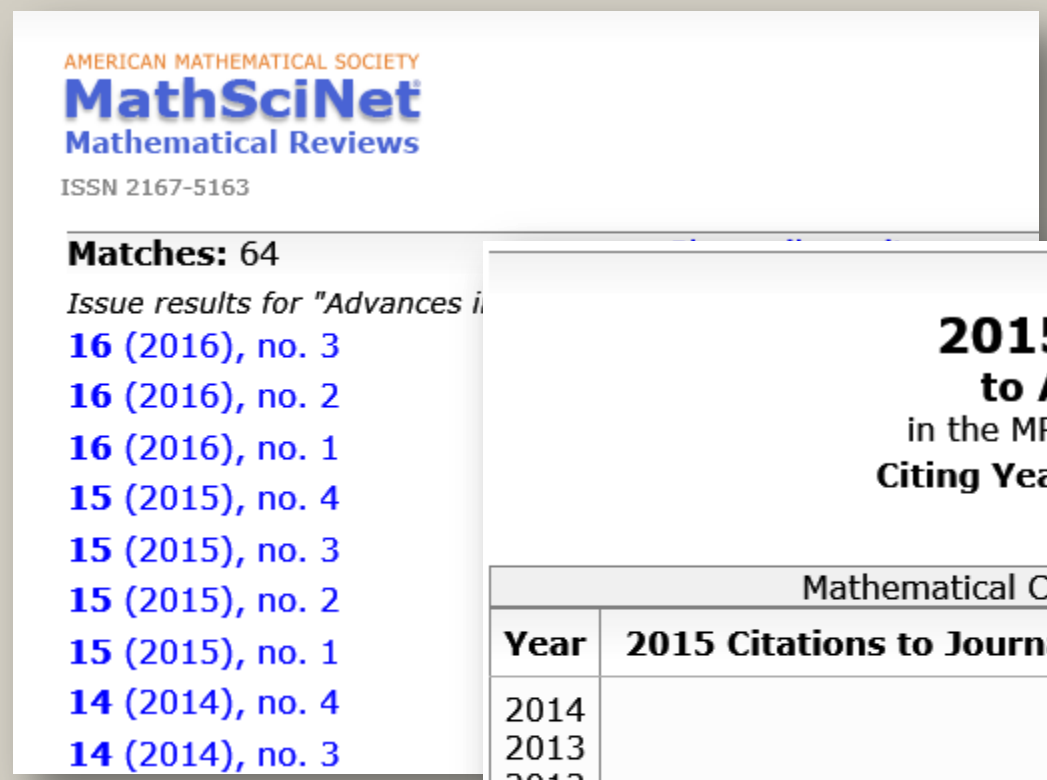

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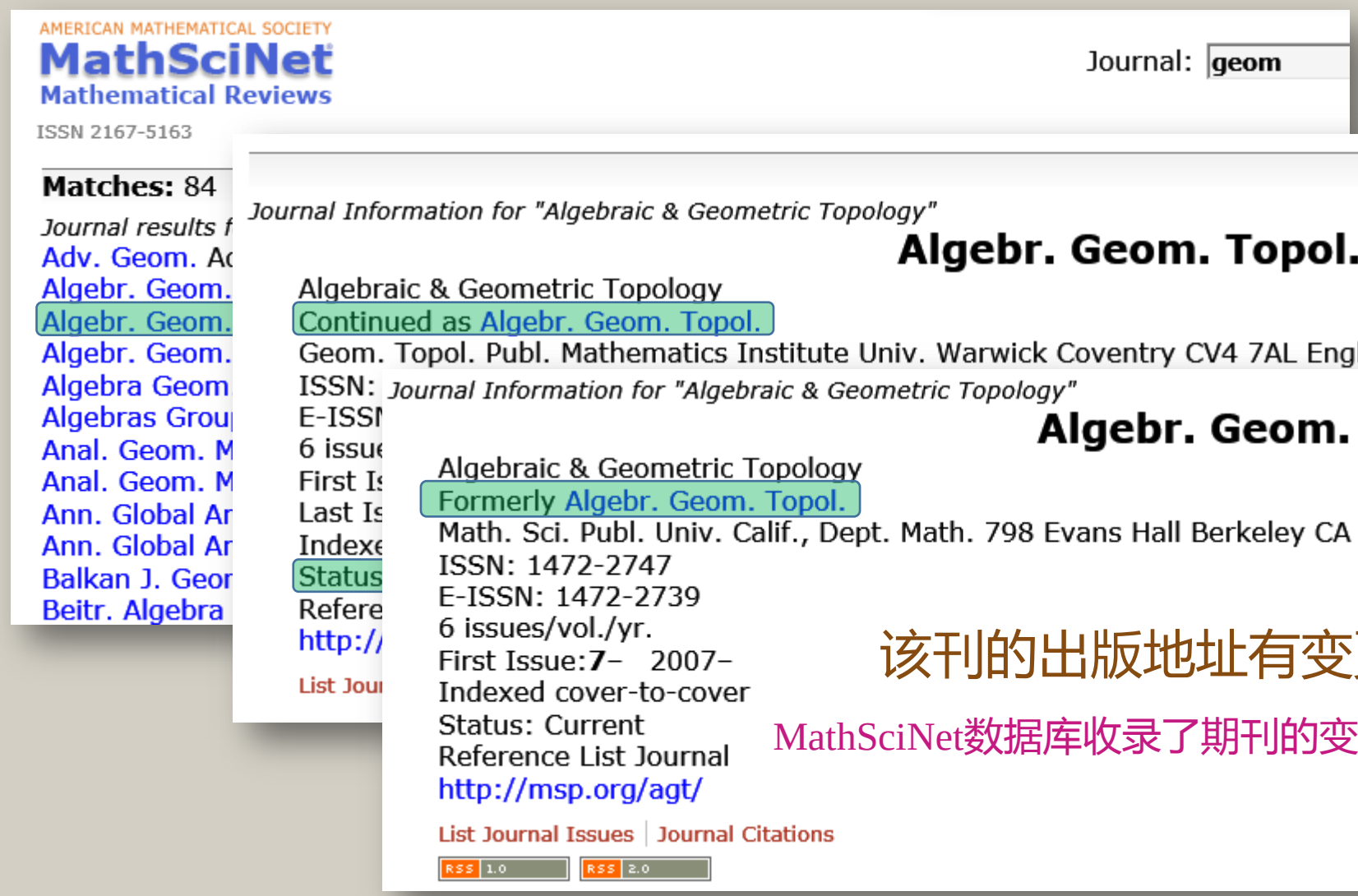

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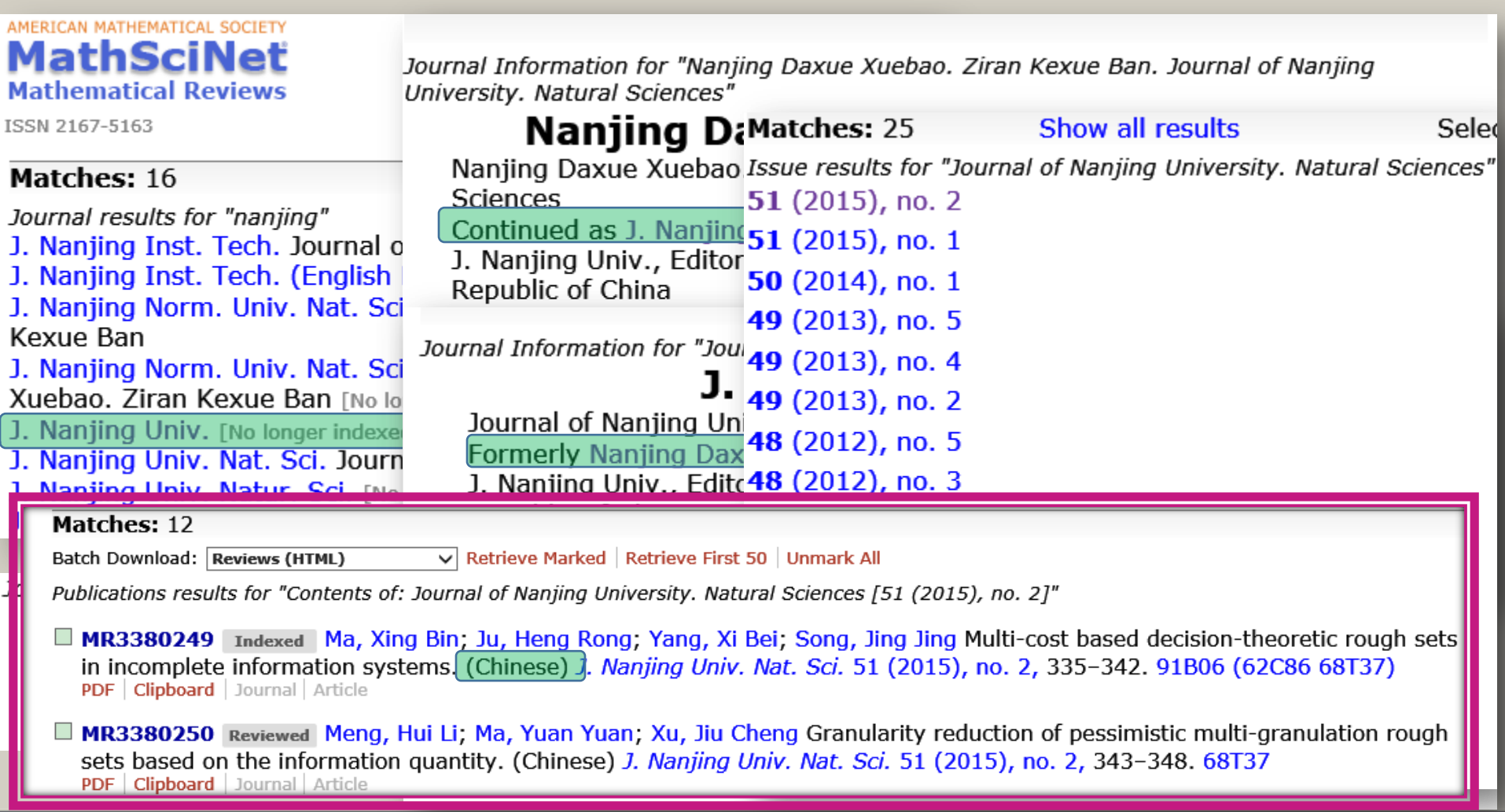

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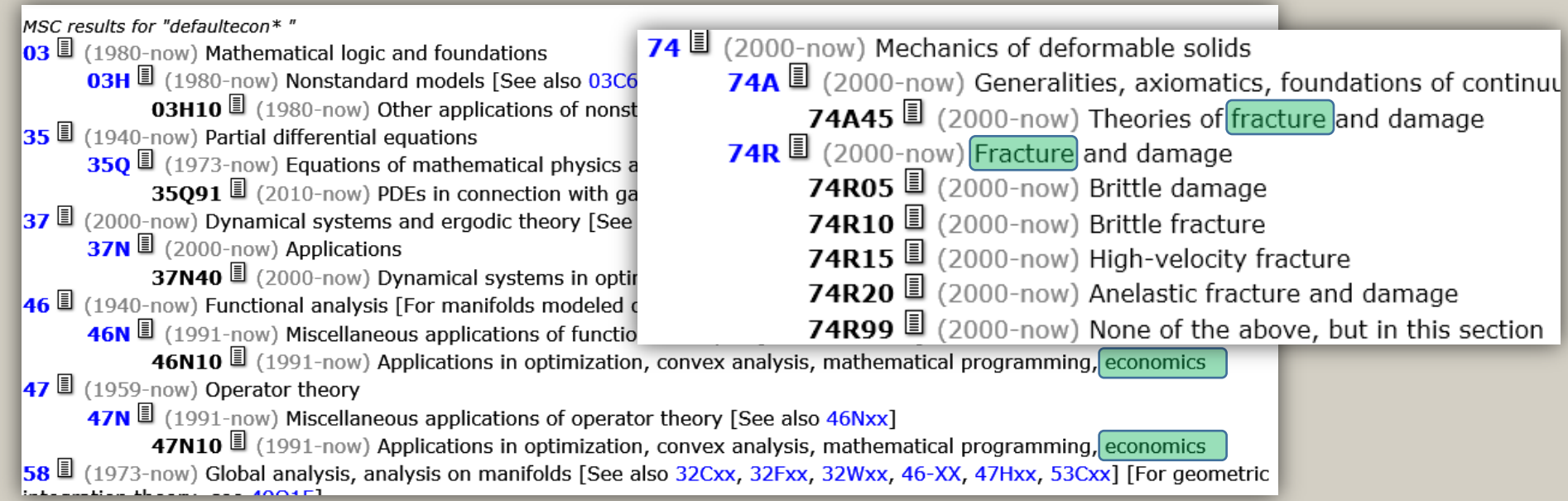

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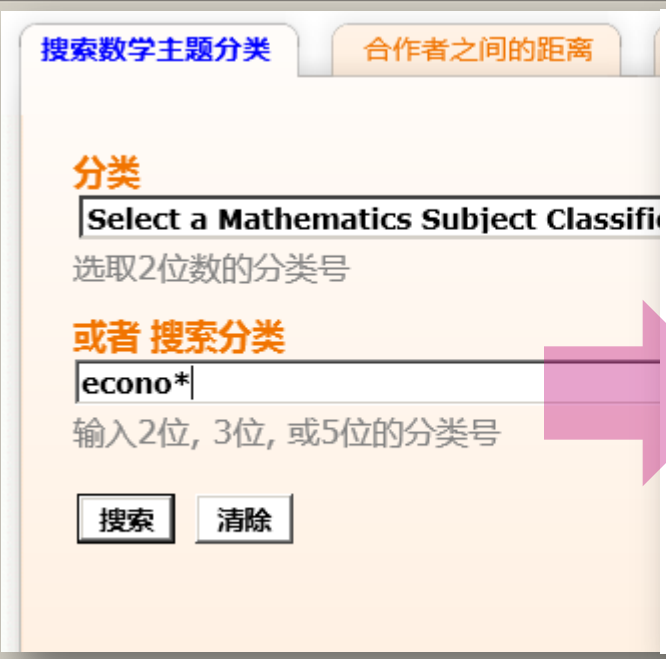

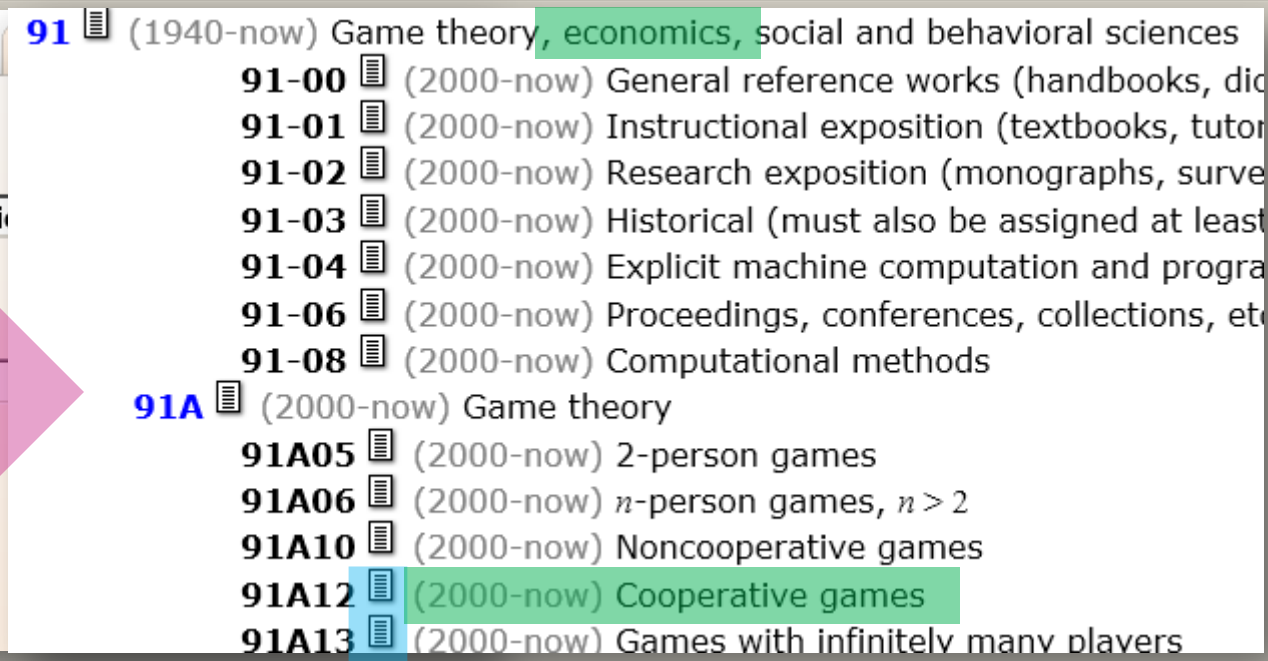

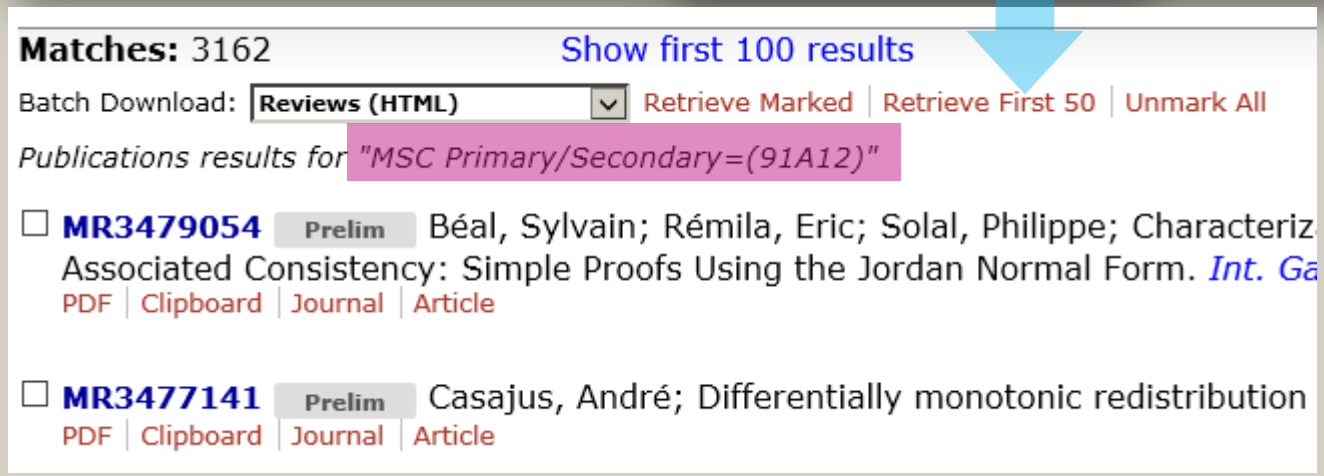

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- 作者主页（author profile）
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Profile Name	Published as	Earliest Publication	# Publications	# Citations
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Hua, Lei[1]	Hua, Lei (14)	2008	14	69
Hua, Lei[2]	Hua, Lei (3)	2010	3	11
Hua, Leina	Hua, Leina (1)	2011	1	3
Hua, Li	Hua, Li (1)	2002	1	4
Hua, Li	Hua, Li (1)	2012	1	
Hua, Li-Zhen	Hua, Li-Zhen (1)	2007	1	
Hua, Liang	Hua, Liang (2)	2014	2	1
Hua, Lien	Hua, Lien (1)	1980	1	
Hua, Lin[2]	Lin, Hua (1)	2011	1	
Hua, Liu Bin	Hua, Liu Bin (5) Hua, Liubin (2)	2007	7	13
Hua, Liu-Qing	Hua, Liu-Qing (1)	2014	1	
Hua, Long	Hua, Long (4)	1990	4	1
Hua, Lu	Hua, Lu (1)	2011	1	
Hua, Luo Geng	Hua, Loo-Keng (51) Hua, Loo-keng (32) Hua, L. K. (16) Hua, Loo Keng (13)	1939	156	1553

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Hua, Luo Geng

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Earliest Indexed Publication:

Total Publications:

Total Author/Related Publicatio

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- Hua Lo-keng
- Hua Loo Keng
- Hua Loo-keng
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- Hua, L. K.
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MR0116025 (22 #6820) Reviewed
Marcus, Marvin
On a determinantal inequality.
Amer. Math. Monthly **65** 1958 266–268.
15.00
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Let $\lambda_j, \alpha_j, \beta_j$ be the eigenvalues of $I - A^*B$, A^*A and B^*B so indexed that $|\lambda_j| \geq |\lambda_{j+1}|$, $\alpha_j \geq \alpha_{j+1}$, $\beta_j \geq \beta_{j+1}$ for $j = 1, \cdots, n-1$, where A and B are n-rowed matrices and A^* denotes the conjugate transpose of A. The author proves that, if $\alpha_n \geq 0$, $\beta_n \geq 0$, then for each k satisfying $1 \leq k \leq n$ we have

$$\prod_{j=1}^{k} |\lambda_{n-j+1}|^2 \geq \prod_{j=1}^{k} (1-\alpha_j)(1-\beta_j).$$

In case $k = n$, the inequality is due to the reviewer.

Reviewed by L. K. Hua

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AMS最有趣的功能：The Erdős number

只要您的有共同署名的文章被MathSciNet收录过

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Erdős number 的算法为通过N次合著关系与Erdos,Paul教授实现关联

Why Erdős,Paul ?

合作距离

Erdős, Paul[1]

Website:	http://www.oakland.edu/enp
MR Author ID:	189017
Earliest Indexed Publication:	1934
Total Publications:	1444
Total Author/Related Publications:	1640
Total Citations:	14315

⊞ Published as: Erdös, P. ...

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Top 50 Co-authors (by number of collaborations)

Alavi, Yousef Bollobás, Béla Burr, Stefan Andrus Chung, Fan de Bruijn, Nicolaas Govert Duke, Richard A. Dvoretzky, Aryeh Eggleton, Roger B. Faudree, Ralph Jasper, Jr Fishburn, Peter C. Füredi, Zoltán Galvin, Fred Graham, Ronald L. Gyárfás, András Hajnal, András Hall, Richard R. Ivić, Aleksandar Joó, István Kakutani, Shizuo Kátai, Imre Kleitman, Daniel J. Łuczak, Tomasz Milner, Eric Charles Nathanson, Melvyn

合作距离

AMS最有趣的功能：The Erdős number

Erdos,Paul一生共发表了1640+篇文献，在数学领域拥有最多的合著者（500+），MathSciNet中的作者基本都可通过共同署名关系与Erdos,Paul先生实现关联。

实现这一功能的基础是AMS对收录作者分配了唯一的MRID，该ID会永远伴随作者，无论是更改了工作单位，还是更改了姓名写法，基本都会关联到该唯一ID。

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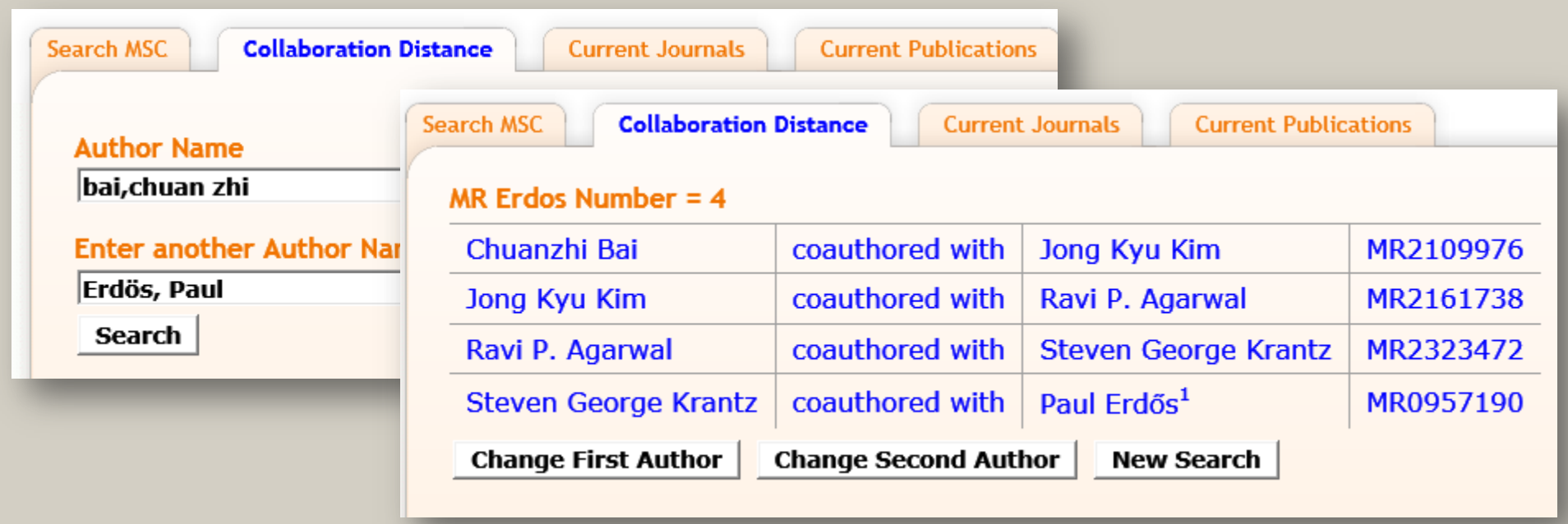

根据研究人员的统计，数学科研人员的**平均Erdos Number为5**，著名数学家往往该值较低。较早时期的数学家该值往往较高；但有个例外，数学天才拉马努金的Erdos Number为3，尽管Erdos,Paul（1913-1996）7岁的时候，拉马努金（1887-1920）就过世了。

合作距离

MR Erdos Number = 3

Srinivasa Aiyangar Ramanujan	coauthored with	Godfrey Harold Hardy	MR1575586
Godfrey Harold Hardy	coauthored with	Hans Arnold Heilbronn	MR1574982
Hans Arnold Heilbronn	coauthored with	Paul Erdős[1]	MR0166186

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MR1575586 DML
Hardy, G. H.; Ramanujan, S.
Asymptotic Formulaae in Combinatory Analysis.
Proc. London Math. Soc. S2-17 (1918), no. 1, 75.

哈代.G.H 拉马努金的老师

MR1574982 DML
Hardy, G. H.; Heilbronn, H.
Edmund Landau.
J. London Math. Soc. S1-13 no. 4, 302.

H.海尔布伦 华罗庚早年在英国结交的好友

MR0166186 Reviewed
Erdős, P.; Heilbronn, H.
On the addition of residue classes mod p.
Acta Arith. **9** 1964 149–159.
10.43 (12.25)
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合作距离

陶哲轩的Erdos Number=2

MR Erdos Number = 2			
Terence C. Tao	coauthored with	Gergely Harcos	MR3294387
Gergely Harcos			

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陈省身的Erdos Number=2

MR Erdos Number = 2			
Shiing Shen Chern	coauthored with	Aurel Wintner	MR0066718
Aurel Wintner	coauth		

Change First Author Cha

北京大学田刚教授的Erdos Number=3

MR Erdos Number = 3			
Gang Tian[1]	coauthored with	Peter Li	MR1320155
Peter Li	coauthored with	Kai Lai Chung	MR0875443
Kai Lai Chung	coauthored with	Paul Erdős[1]	MR0023010

New Search

南京大学秦厚荣教授的Erdos Number=4

MR Erdos Number = 4			
Hou Rong Qin	coauthored with	Aderemi O. Kuku	MR2136684
Aderemi O. Kuku	coauthored with	Andreas W. M. Dress	MR0609220
Andreas W. M. Dress	coauthored with	Florian Luca	MR1851944
			MR2437964

南京师范大学尹会成教授的Erdos Number=4

MR Erdos Number = 4			
Huicheng Yin	coauthored with	Zhuoping Ruan	MR3121701
Zhuoping Ruan	coauthored with	Eric T. Sawyer	MR3148598
Eric T. Sawyer	coauthored with	Steven George Krantz	MR3329539
Steven George Krantz	coauthored with	Paul Erdős[1]	MR0957190

合作距离

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柏传志与爱因斯坦的合作距离为6，即通过6篇文章实现关联

MR Collaboration Distance = 6

Chuanzhi Bai	coauthored with	Jong Kyu Kim	MR2109976
Jong Kyu Kim	coauthored with	Nikolaĭ Antonovich Bobylev	MR1635712
Nikolaĭ Antonovich Bobylev	coauthored with	Nikolaĭ Nikolaevich Bogolyubov	MR0616819
Nikolaĭ Nikolaevich Bogolyubov	coauthored with	Ivan T. Todorov	MR0452276
Ivan T. Todorov	coauthored with	Valentine Bargmann	MR0486330
Valentine Bargmann	coauthored with	Albert Einstein	MR0004790

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MR2109976 Reviewed

Bai, Chuanzhi(PRC-HYTC); Kim, Jong Kyu(KR-KYN) 韩国数学家

An implicit iteration process with errors for a finite family of asymptotically quasi-nonexpansive mappings. (English summary)

Nonlinear Funct. Anal. Appl. 9 (2004), no. 4, 649–658.

47H10

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MR1635712 Reviewed 莫斯科数学家

Bobylev, N. A.(RS-MOSC); Kim, J. K.(KR-KYN); Korovin, S. K.(RS-MOSC); Piskarev, S.(RS-MOSC)

Semidiscrete approximations of semilinear periodic problems in Banach spaces.

Nonlinear Anal. 33 (1998), no. 5, 473–482.

34(

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MR0616819 Reviewed

Bogoljubov, N. N.; Išlinskiĭ, A. Ju.; Kantorovič, L. V.; Sadovskiĭ, B. N.; Sobolev, S. L.; Trapeznikov, V. A.

Bobylëv, N. A. 莫斯科数学家

Mark Aleksandrovič Krasnosel'skiĭ (on the occasion of his sixtieth birthday). (Russian)

Uspekhi

01A70

MR0452277 Reviewed

Bogolubov, N. N.; Logunov, A. A.; Todorov, I. T. 哥廷根大学理论物理学家托德洛夫

Introduction to axiomatic quantum field theory.

Translated from the Russian by Stephen A. Fulling and Ludmila G. Popova. Edited by Stephe

Monograph Series, No. 18. *W. A. Benjamin, Inc., Reading, Mass.-London-Amsterdam,* 1975.

MR0486330 Reviewed

Bargmann, V.; Todorov, I. T. 美国数学家巴格曼

Spaces of analytic functions on a complex cone as carriers for the symmetric t

representations of SO(n)**.**

J. Mathematical Phys. **18** (1977), no. 6, 1141–1148.

MR0004790 Reviewed

Einstein, A.; Bargmann, V.; Bergmann, P. G.

On the five-dimensional representation of gravitation and electricity. *Theodore von Kármán Anniversary Volume,* pp. 212–225 *California Institute of Technology, Pasadena, Calif.,* 1941.

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师承关系

作者的数学系谱（师承关系）

Tao, Terence C.

MR Author ID:	**361755**
Earliest Indexed Publication:	1996
Total Publications:	**282**
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Total Citations:	**10239**

⊞ Published as: Tao, T. ...

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Austin, Timothy Derek Bennett, Jonathan M. Bergelson, Vitaly Breuillard, Emmanuel Candès, Emmanuel J. Carbery, Anthony Christ, Michael Colliander, James E. Demeter, Ciprian Eisner, Tanja Erdős, László Ford, Kevin B. Fouvry, Étienne Grafakos, Loukas Green, Ben Guralnick, Robert M. Harcos, Gergely Hassell, Andrew Helfgott, Harald Andrés Iosevich, Alexander Katz,

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Terence Chi-Shen Tao

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Ph.D. Princeton University 1996

Dissertation: *Three Regularity Results in Harmonic Analysis*

Advisor: Elias M. Stein

Students:
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Name	School	Year	Descendants
Timothy Austin	University of California, Los Angeles	2010	
Jacques Benatar	University of California, Los Angeles	2015	
John Bueti	University of California, Los Angeles	2006	
Julia Garibaldi	University of California, Los Angeles	2004	
Zaher Hani	University of California, Los Angeles	2011	
Ben Krause	University of California, Los Angeles	2015	
Soonsik Kwon	University of California, Los Angeles	2008	
Thai Hoang Le	University of California, Los Angeles	2010	
Kenneth Maples	University of California, Los Angeles	2011	
Bradley Rodgers	University of California, Los Angeles	2013	
Shuanglin Shao	University of California, Los Angeles	2008	

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德国 法学士 乌尔里希·查修斯

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德国 弗莱堡大学

Dissertation:

Advisor: Unknown

Students:
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Name	School	Year	Descendants
Wolfgang Capito	Universität Ingolstadt	1506	97125
Jakob Milich	Universität Wien	1524	134089

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Author Citations for Chuanzhi Bai

Chuanzhi Bai is cited 437 times by 431 authors
in the MR Citation Database

Most Cited Publications	
Citations	**Publication**
65	**MR2039662** Bai, Chuan-zhi; Fang, Jin-xuan The existence of a positive solution for a singular coupled system of nonlinear fractional differential equations. *Appl. Math. Comput.* 150 (2004), no. 3, 611–621. 34B18 (34B16 47N20)
44	**MR2197088** Bai, Chuanzhi Positive solutions for nonlinear fractional differential equations with coefficient that changes sign. *Nonlinear Anal.* 64 (2006), no. 4, 677–685. (Reviewer: Mahmoud M. El-Borai) 34A12 (34C11)
43	**MR1980075** Bai, Chuanzhi; Fang, Jinxuan Existence of multiple positive solutions for nonlinear m-point boundary value problems. *J. Math. Anal. Appl.* 281 (2003), no. 1, 76–85. (Reviewer: Tadie) 34B10 (34B18)
27	**MR1953901** Bai, Chuan-zhi; Fang, Jin-xuan Existence of multiple positive solutions for nonlinear m-point boundary-value problems. *Appl. Math. Comput.* 140 (2003), no. 2-3, 297–305. 34B18 (34B10 47N20)
24	**MR1989682** Bai, Chuanzhi; Fang, Jinxuan On positive solutions of boundary value problems for second-order functional differential equations on infinite intervals. *J. Math. Anal. Appl.* 282 (2003), no. 2, 711–731. (Reviewer: S. K. Ntouyas) 34K10
21	**MR2425095** Bai, Chuanzhi Triple positive solutions for a boundary value problem of nonlinear fractional differential equation. *Electron. J. Qual. Theory Differ. Equ.* 2008, No. 24, 10 pp. 34B18 (26A33)

引用分析

作者被引查询

MR2039662 Reviewed

Bai, Chuan-zhi(PRC-HYTC); Fang, Jin-xuan(PRC-NJN)

The existence of a positive solution for a singular coupled system of nonlinear fractional differential equations. (English summary)

Appl. Math. Comput. 150 (2004), no. 3, 611–621.

34B18 (34B16 47N20)

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☐ **MR3544384** Pending Zhang, Yuruo; Wang, JinRong Nonlocal Cauchy problems for a class of implicit impulsive fractional relaxation differential systems. *J. Appl. Math. Comput.* 52 (2016), no. 1-2, 323–343. 34A08 (26A33 34A37 34B10 45G05)
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☐ **MR3542818** Indexed Jiang, Jiqiang; Liu, Lishan Existence of solutions for a sequential fractional differential system with coupled boundary conditions. *Bound. Value Probl.* 2016, 2016:159, 15 pp. 34B10 (26A33 34A08 34B15 35K51 35Q92 92D25 92D30)
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☐ **MR3505050** Reviewed Zhou, XiaoJun; Xu, ChuanJu Well-posedness of a kind of nonlinear coupled system of fractional differential equations. *Sci. China Math.* 59 (2016), no. 6, 1209–1220. (Reviewer: Merab Svanadze) 74H20 (74H25)
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☐ **MR3456922** Reviewed Jiang, Min; Zhong, Shouming Existence of extremal solutions for a nonlinear fractional q-difference system. *Mediterr. J. Math.* 13 (2016), no. 1, 279–299. 39A13 (34A08 34B18)
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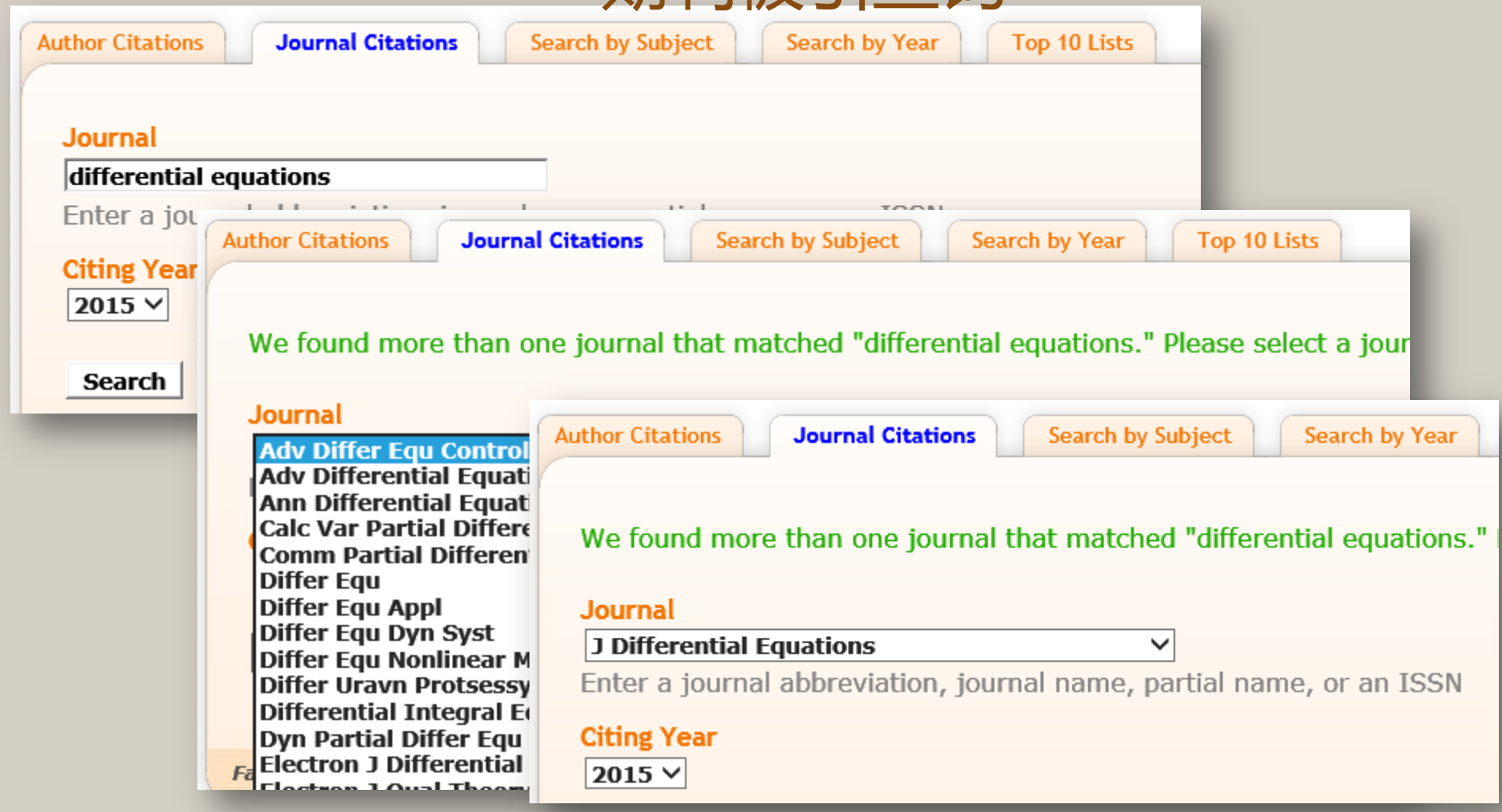
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2015 Citations
to J. Differential Equations
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Mathematical Citation Quotient for 2015

Year	2015 Citations to Journal	Items Published in Journal	MCQ*
2014	429	293 (80% cited)	
2013	519	337 (86% cited)	
2012	802	379 (91% cited)	
2011	521	313 (95% cited)	
2010	548	262 (94% cited)	
	2819 citations ÷	1584 items =	1.78

* The 2015 All Journal MCQ is 0.39

(Total citations to this journal in the MR Citation Database in 2015: 8646)

(Total citations to this journal in the MR Citation Database: 94985)

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Publications results for "Papers Citing J. Differential Equations in 2015"

☐ **MR3507260** Reviewed Chang-Lara, Héctor A.; Kriventsov, Dennis Further time regularity for fully non-linear parab
Math. Res. Lett. 22 (2015), no. 6, 1749–1766. 35K55 (35B45 35B65)
PDF | Clipboard | Journal | Article

☐ **MR3504551** Pending He, Xiaoming; Li, Jian; Lin, Yanping; Ming, Ju A domain decomposition method for the stea
Navier-Stokes-Darcy model with Beavers-Joseph interface condition. *SIAM J. Sci. Comput.* 37 (2015), no. 5, S264
(65N55 76D05 76S05)
PDF | Clipboard | Journal | Article

☐ **MR3485871** Reviewed Bidaut-Véron, Marie-Françoise; Nguyen, Quoc-Hung Evolution equations of p-Laplace type v
or source terms and measure data. *Commun. Contemp. Math.* 17 (2015), no. 6, 1550006, 25 pp. 35K92 (35J62 3
35R06)
PDF | Clipboard | Journal | Article

☐ **MR3462503** Reviewed Junca, Stéphane; Lombard, Bruno Stability of neutral delay differential equations modeling
propagation in cracked media. *Discrete Contin. Dyn. Syst.* 2015, Dynamical systems, differential equations and ap
10th AIMS Conference. Suppl., 678–685. (Reviewer: B. Belinskiy) 74J20 (34K20 34K40 74K10)
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1836	**MR1243878** Hale, Jack K.; Verduyn Lunel, Sjoerd M. Introduction to functional-differential equations. Applied Mathematical Sciences, 99. *Springer-Verlag, New York,* 1993. x+447 pp. ISBN: 0-387-94076-6 (Reviewer: Waldyr M. Oliva) 34Kxx (34-02 47D06 47H20 47N20 58F32) Book
1402	**MR2218073** Kilbas, Anatoly A.; Srivastava, Hari M.; Trujillo, Juan J. Theory and applications of fractional differential equations. North-Holland Mathematics Studies, 204. *Elsevier Science B.V., Amsterdam,* 2006. xvi+523 pp. ISBN: 978-0-444-51832-3; 0-444-51832-0 (Reviewer: B. S. Rubin) 34-02 (26A33 33C90 34A99 35-02 45-02) Book
1306	**MR0508721** Hale, Jack Theory of functional differential equations. Second edition. Applied Mathematical Sciences, Vol. 3. *Springer-Verlag, New York-Heidelberg,* 1977. x+365 pp. (Reviewer: R. R. Ahmerov) 34KXX Book
1295	**MR1082551** Lakshmikantham, V.; Baĭnov, D. D.; Simeonov, P. S. Theory of impulsive differential equations. Series in Modern Applied Mathematics, 6. *World Scientific Publishing Co., Inc., Teaneck, NJ,* 1989. xii+273 pp. ISBN: 9971-50-970-9 (Reviewer: A. Halanay) 34A37 (34-02 34D20 34K99) Book

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646	**MR1022305** DiPerna, R. J.; Lions, P.-L. Ordinary differential equations, transport theory and Sobolev spaces. *Invent. Math.* 98 (1989), no. 3, 511–547. (Reviewer: B. G. Pachpatte) 34A10 (34D20 35Q20 58D25 82A70)
319	**MR2168413** Bai, Zhanbing; Lü, Haishen Positive solutions for boundary value problem of nonlinear fractional differential equation. *J. Math. Anal. Appl.* 311 (2005), no. 2, 495–505. 34B18 (45B05)
306	**MR1204373** Erbe, L. H.; Wang, Haiyan On the existence of positive solutions of ordinary differential equations. *Proc. Amer. Math. Soc.* 120 (1994), no. 3, 743–748. (Reviewer: Juan J. Nieto) 34B15 (47N20)
301	**MR0287106** Fenichel, Neil Persistence and smoothness of invariant manifolds for flows. *Indiana Univ. Math. J.* **21** 1971/1972 193–226. (Reviewer: U. D' Ambrosio) 34.65
283	**MR0340701** Joseph, D. D.; Lundgren, T. S. Quasilinear Dirichlet problems driven by positive sources. *Arch. Rational Mech. Anal.* **49** (1972/73), 241–269. (Reviewer: Jean Mawhin) 34B15
282	**MR0492721** Hale, Jack K.; Kato, Junji Phase space for retarded equations with infinite delay. *Funkcial. Ekvac.* **21** (1978), no. 1, 11–41. (Reviewer: Waldyr M. Oliva) 34K15 (58F10)

山东科技大学白占兵教授

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52	**MR3271254** Servadei, Raffaella; Valdinoci, Enrico The Brezis-Nirenberg result for the fractional Laplacian. *Trans. Amer. Math. Soc.* 367 (2015), no. 1, 67–102. (Reviewer: Jens Wirth) 35R11 (35A15 35R11 35S15 47G20)
40	**MR3287221** Maclagan, Diane; Sturmfels, Bernd Introduction to tropical geometry. Graduate Studies in Mathematics, 161. *American Mathematical Society, Providence, RI,* 2015. xii+363 pp. ISBN: 978-0-8218-5198-2 (Reviewer: Patrick Popescu-Pampu) 14T05 (05B35 14M25 15A80 52B70) Book
39	**MR3307753** Arzhantsev, Ivan; Derenthal, Ulrich; Hausen, Jürgen; Laface, Antonio Cox rings. Cambridge Studies in Advanced Mathematics, 144. *Cambridge University Press, Cambridge,* 2015. viii+530 pp. ISBN: 978-1-107-02462-5 (Reviewer: Alexandr V. Pukhlikov) 14Cxx (14Jxx 14Lxx) Book

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287	**MR0290095** Stein, Elias M. Singular integrals and differentiability properties of functions. Princeton Mathematical Series, No. 30 *Princeton University Press, Princeton, N.J.* 1970 xiv+290 pp. (Reviewer: R. E. Edwards) 46.38 (26.00)	Book
284	**MR1814364** Gilbarg, David; Trudinger, Neil S. Elliptic partial differential equations of second order. Reprint of the 1998 edition. Classics in Mathematics. *Springer-Verlag, Berlin,* 2001. xiv+517 pp. ISBN: 3-540-41160-7 35-02 (35Jxx)	Book
274	**MR0463157** Hartshorne, Robin Algebraic geometry. Graduate Texts in Mathematics, No. 52. *Springer-Verlag, New York-Heidelberg,* 1977. xvi+496 pp. ISBN: 0-387-90244-9 (Reviewer: Robert Speiser) 14-01	Book
271	**MR1658022** Podlubny, Igor Fractional differential equations. An introduction to fractional derivatives, fractional differential equations, to methods of their solution and some of their applications. Mathematics in Science and Engineering, 198. *Academic Press, Inc., San Diego, CA,* 1999. xxiv+340 pp. ISBN: 0-12-558840-2 (Reviewer: Anatoly Kilbas) 26A33 (34K05)	Book

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MR0290095 Reviewed

Stein, Elias M.

Singular integrals and differentiability properties of functions.

Princeton Mathematical Series, No. 30 *Princeton University Press, Princeton, N.J.* 1970 xiv+290 pp.

46.38 (26.00)

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This book deals with several flourishing aspects of "hard" analysis of the modern variety. Its substance is indicated by the ensuing list of chapter headings and sample contents; more detailed indications pertaining to the first six chapters are provided by the Bachman-Somen notes of the author's 1966–67 course ["Intégrales singulières et fonctions différentiables de plusieurs variables", Publ. Math. Orsay, Univ. Paris, Orsay, 1967].

Chapter I. Some fundamental notions of real-variable theory: Maximal functions; differentiation theorems; Lebesgue set; covering theorems of Vitali type; Calderón-Zygmund decomposition lemma; Marcinkiewicz theorem (distance function from a closed set). Special case of the Marcinkiewicz interpolation theorem (general case treated in an appendix by Hunt's method). Chapter II. Singular integrals: Rapid review of a few essential aspects of harmonic analysis on R^n, followed by a plunge into "the heart of the matter" in the shape of a theorem asserting L^p-boundedness $(1 < p < \infty)$ of singular integral operators $Tf(x) = \int K(x-y)f(y)\,dy$ and the corresponding multipliers. The author deliberately chooses to begin with a simple case in unfinished form and to develop this step by step toward the Calderón-Zygmund theory for homogeneous singular kernels. Vector-valued analogies for subsequent

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162	**MR1484478** Bosma, Wieb; Cannon, John; Playoust, Catherine The Magma algebra system. I. The user language. Computational algebra and number theory (London, 1993). *J. Symbolic Comput.* 24 (1997), no. 3-4, 235–265. 68Q40
158	**MR0370183** Ambrosetti, Antonio; Rabinowitz, Paul H. Dual variational methods in critical point theory and applications. *J. Functional Analysis* **14** (1973), 349–381. (Reviewer: D. E. Edmunds) 46G05 (35J20 58E99)
146	**MR1379242** Tibshirani, Robert Regression shrinkage and selection via the lasso. *J. Roy. Statist. Soc. Ser. B* 58 (1996), no. 1, 267–288. 62J05 (62J07)
142	**MR2152382** Hughes, T. J. R.; Cottrell, J. A.; Bazilevs, Y. Isogeometric analysis: CAD, finite elements, NURBS, exact geometry and mesh refinement. *Comput. Methods Appl. Mech. Engrg.* 194 (2005), no. 39-41, 4135–4195. 65D17 (65N30 74S05)
131	**MR0916688** Simon, Jacques Compact sets in the space $L\sp p(0,T;B)$. *Ann. Mat. Pura Appl. (4)* 146

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下列文章的全部被引次数在1515次，其中在2015年被引162次，位列期刊文章排行榜第一

MR1484478 Indexed

Bosma, Wieb(5-SYD-AL); Cannon, John(5-SYD-AL); Playoust, Catherine(5-SYD-AL)

The Magma algebra system. I. The user language. (English summary)

Computational algebra and number theory (London, 1993).

J. Symbolic Comput. 24 (1997), no. 3-4, 235–265.

68Q40

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From References: 1515
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MR1484477 Reviewed

Computational algebra and number theory.

Proceedings of the 1st MAGMA Conference held at Queen Mary and Westfield College, London, August 23–27, 1993. Edited by John Cannon and Derek Holt. J. Symbolic Comput. **24** (1997), no. 3-4. *Elsevier Ltd, Oxford,* 1997. pp. 233–506.

68-06 (11-06 20-06 68Q40)

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Citations
From References: 0
From Reviews: 5

Contents:

Wieb Bosma, John Cannon [John J. Cannon] and Catherine Playoust, "The Magma algebra system. I. The user language", 235–265.

M. Daberkow, C. Fieker, J. Klüners, M. Pohst, K. Roegner, M. Schörnig and K. Wildanger, "KANT V4", 267–283.

John J. Cannon and Derek F. Holt, "Computing chief series, composition series and socles in large permutation groups", 285–301.

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2013	37	8 (100% cited)	
2012	46	9 (100% cited)	
2011	24	7 (100% cited)	
2010	30	6 (100% cited)	
	154 citations ÷	38 items =	4.05

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2013	29	5 (100% cited)	
2012	0	0 (0% cited)	
2011	0	0 (0% cited)	
2010	0	0 (0% cited)	
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Publications results for "Papers in Publ. Math. Inst. Hautes \'Etudes Sci., 2013"

☐ **MR3150250** Reviewed Schiffmann, O.; Vasserot, E. Cherednik algebras, W-algebras and the equivariant cohomology moduli space of instantons on $\mathbf{A}^2$. *Publ. Math. Inst. Hautes Études Sci.* 118 (2013), 213–342. (Reviewer: Andrei D. H 81R10 (14D21 14F43 17B35 17B69 20G20 81T13 81T60)
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☐ **MR3150249** Reviewed Herfort, Wolfgang; Zalesskii, Pavel Virtually free pro-p groups. *Publ. Math. Inst. Hautes Études* (2013), 193–211. (Reviewer: Nikolay V. Nikolov) 20E18 (20E06)
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☐ **MR3150248** Reviewed Paškūnas, Vytautas The image of Colmez's Montreal functor. *Publ. Math. Inst. Hautes Études S* (2013), 1–191. (Reviewer: Ivan Matić) 22E35 (11S37 22E50)
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☐ **MR3090263** Reviewed Gorchinskiy, Sergey; Orlov, Dmitri Geometric phantom categories. *Publ. Math. Inst. Hautes Étu* 117 (2013), 329–349. (Reviewer: Andrei D. Halanay) 14F05 (14C15 18E30)
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☐ **MR3090262** Reviewed Pantev, Tony; Toën, Bertrand; Vaquié, Michel; Vezzosi, Gabriele Shifted symplectic structures. *Inst. Hautes Études Sci.* 117 (2013), 271–328. (Reviewer: Andrey Yu. Lazarev) 14F05 (14A15 18F20 18G30 53D05 5
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☐ **MR3090261** Reviewed Brendle, Simon Constant mean curvature surfaces in warped product manifolds. *Publ. Math. In Études Sci.* 117 (2013), 247–269. (Reviewer: Andrew Bucki) 53A10 (53C45)
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MR3150250 Reviewed

Schiffmann, O.(F-PARIS11); Vasserot, E.(F-PARIS7)

Cherednik algebras, W-algebras and the equivariant cohomology of the moduli space of instantons on $\mathbf{A}^2$. (English summary)

Publ. Math. Inst. Hautes Études Sci. 118 (2013), 213–342.
81R10 (14D21 14F43 17B35 17B69 20G20 81T13 81T60)

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Motivated by the study of $N=2$ super-symmetric gauge theory in dimension four, L. F. Alday, D. Gaiotto and Y. Tachikawa conjectured in [Lett. Math. Phys. **91** (2010), no. 2, 167–197; MR2586871] that for a complex reductive group G there is a representation of the affine W-algebra of G over the equivariant intersection cohomology of the moduli space of G^L-instantons over $\mathbf{R}^4$, satisfying also some extra conditions, where G^L is the Langlands dual of G. The paper under review considers the case of $G=G^L=GL_r$.

In order to construct such a representation, the authors consider the moduli space $M_r=\sqcup_n M_{r,n}$ of coherent, torsion free and rank r sheaves over $\mathbf{P}^2$ with a framing along $\mathbf{P}^1_\infty \subset \mathbf{P}^2$. For any fixed n the torus $\tilde{D}=(\mathbf{C}^*)^2\times D$ (D being $(\mathbf{C}^*)^r$) acts on $M_{r,n}$, the first factor acting on $\mathbf{P}^2$ and the second on the framing. On the equivariant Borel-Moore cohomology space

$$L^{(r)}=\bigoplus_n H^{\tilde{D}}_*(M_{r,n}),$$

there is a representation of the rank one Heisenberg algebra but it is not irreducible or cyclic (contrary to the case of $r=1$).

Consider now $R_r=\mathbf{C}[x,y,e_1,\dots,e_r]$, the cohomology ring of the classifying space of $\tilde{D}$ and $K_r=\mathbf{C}(x,y,e_1,\dots,e_r)$ its fraction field. Then on the space $L^{(r)}_K=L^{(r)}\otimes_R K_r$ there is a representation of $W_k(\mathrm{gl}_r)$ of level $k=\kappa-r$ ($\kappa=-y/x$) such that this space identifies with the Verma module M_β of higher weight

$$\beta=-\frac{\vec{\epsilon}+\xi\rho}{\kappa},$$

where $\vec{\epsilon}=\epsilon\vec{1}$, $\vec{e}=(e_1,\dots,e_r)$, $\xi=1-\kappa$ and $\rho=(0,-1,-2,\dots,1-r)$. This action is quasi-unitary with respect to the intersection pairing and the so-called Gaiotto state $G=\sum G_n$, where $G_n=[M_{r,n}]$, is a Whittaker vector of M_β. For $r=2$ one gets in this way an action of the Virasoro algebra on the moduli space of U_2-instantons on $\mathbf{R}^4$.

In order to overcome the fact that W-algebras do not have a presentation by generators and relations for gl_r with $r>3$, the authors need to embed in some way the algebra $W_k(\mathrm{gl}_r)$ in some algebra admitting such a description. For this purpose they construct the algebra SH^c defined over $\mathbf{C}(\kappa)$ which can be seen in some sense as the limit of spherical doubly affine Hecke algebras of GL_n as n tends to infinity. Take $SH^{(r)}_K=SH^c\otimes K_r$, for $c_0=r$ and $c_i=p_i(e_1,\dots,e_r)$. There is an embedding of graded and filtered algebras $SH^{(r)}_K\to \mathrm{U}(W_k(\mathrm{gl}_r))$ inducing an equivalence between the respective categories of admissible modules. Here $\mathrm{U}(W_k(\mathrm{gl}_r))$ is a suitably defined quotient of the current algebra of $W_k(\mathrm{gl}_r)$.

Reviewed by Andrei D. Halanay

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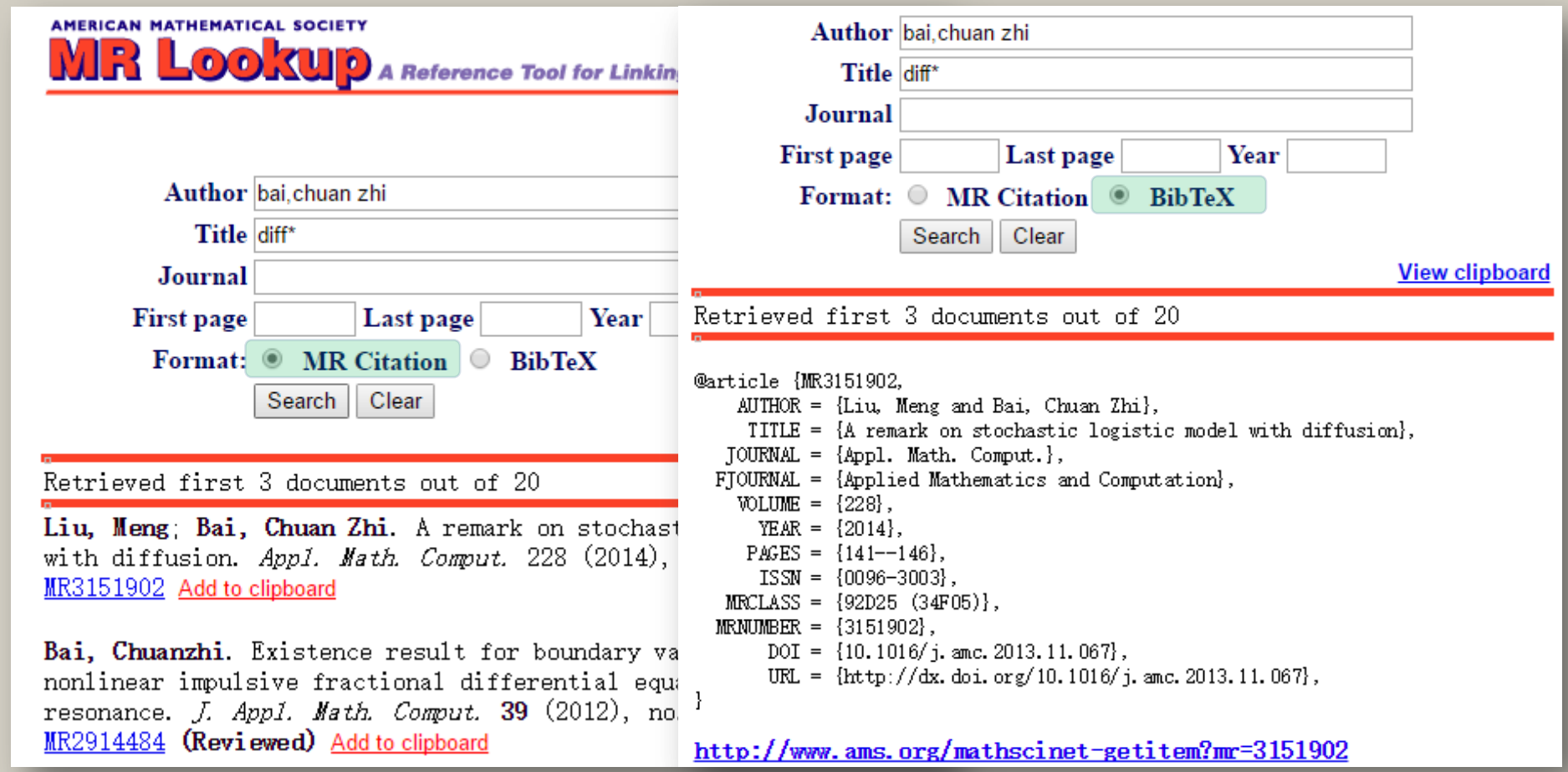

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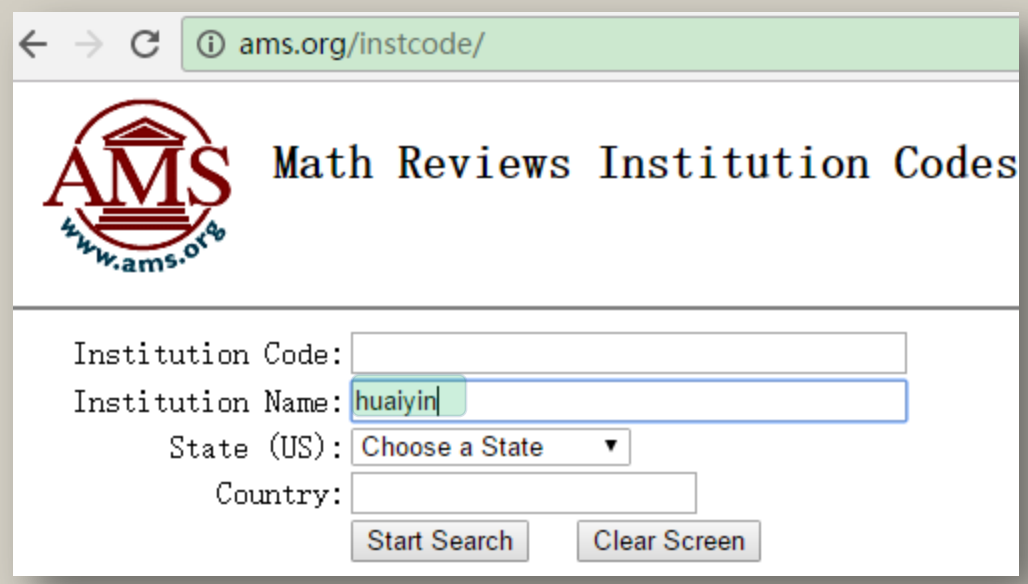

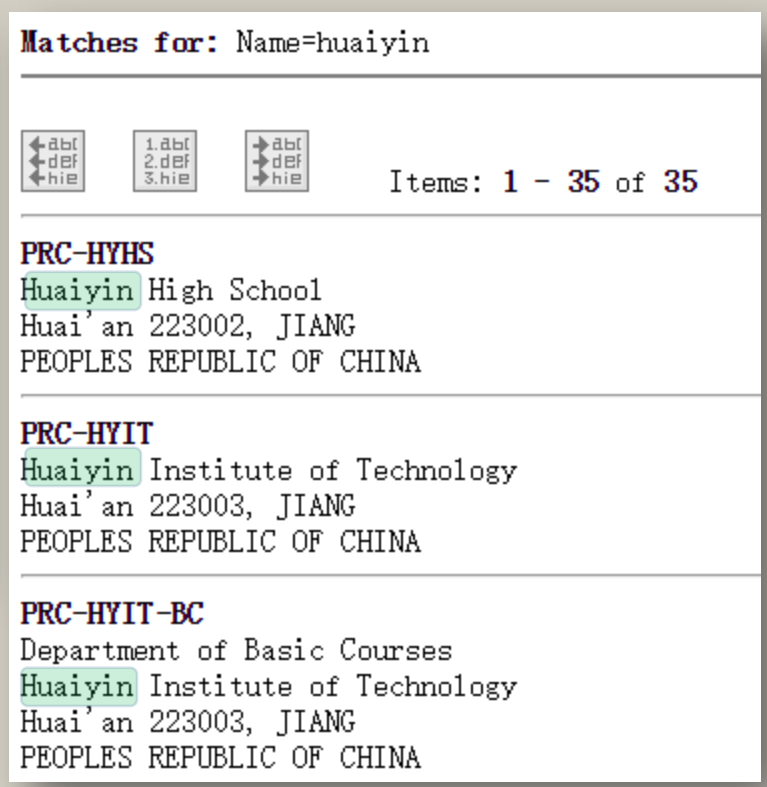

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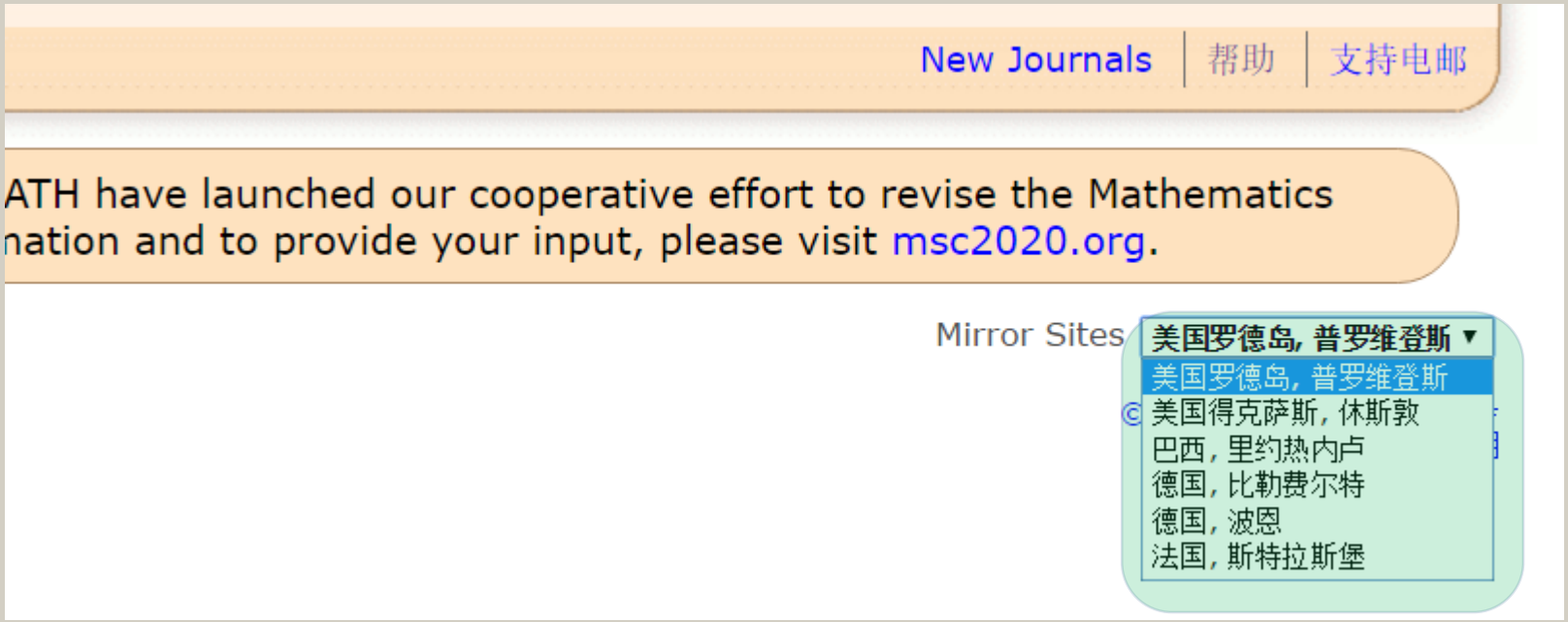

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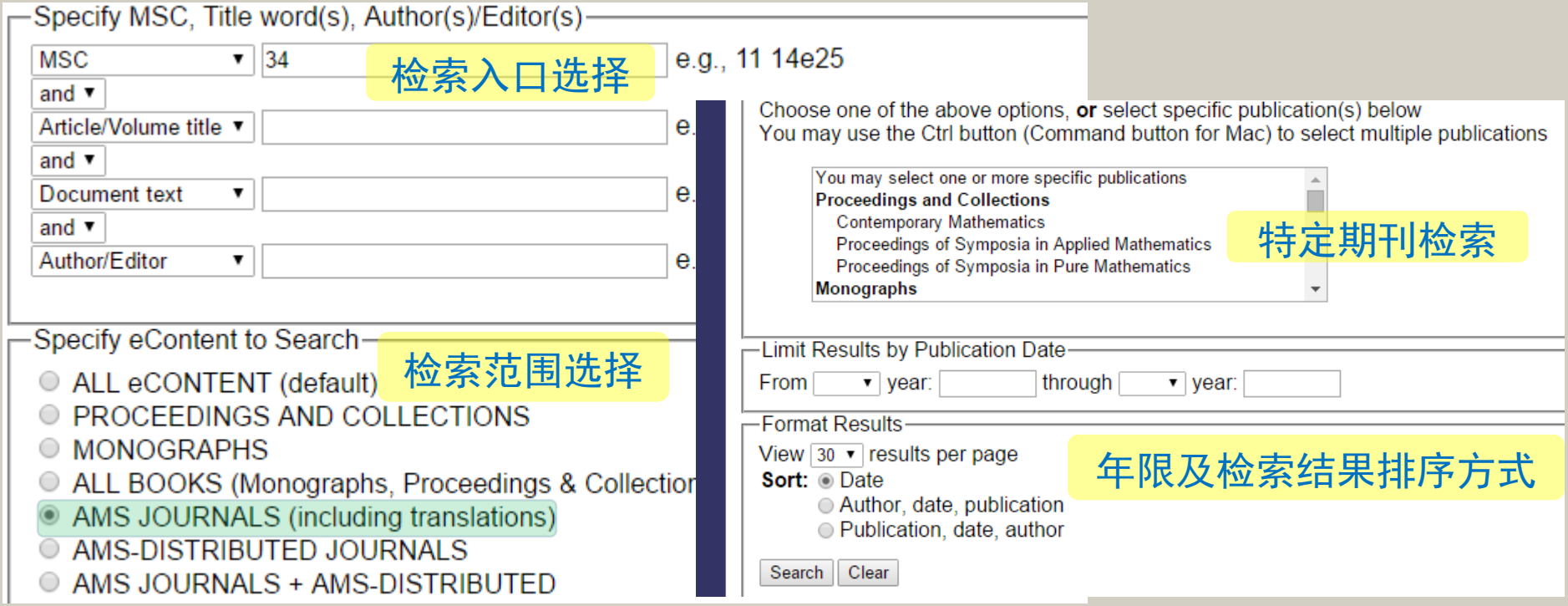

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Isomonodromic deformation of q-difference equations and confluence

Author: Thomas Dreyfus
Journal: Proc. Amer. Math. Soc.
MSC (2010): Primary 39A13, 34M56

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C. Raymond Adams, *On the linear ordinary q-difference equation*, Ann. of Math. (2) **30** (1928/29), no. 1-4, 195-205. MR **1502876**,

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P- ISSN ： 0894-0347

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内容简介：《美国数学会志》由美国数学会出版，创办于1988年，每年出版4期，内容包括纯粹数学和应用数学领域最高水平的研究文章。

AMS期刊

Transactions of the American Mathematical Society.	《美国数学会汇刊》	0002-9947

Transactions of the American Mathematical Society

中文译名：《美国数学会汇刊》

P- ISSN：0002-9947

E- ISSN：1088-6850

内容简介：《美国数学会汇刊》致力于出版纯粹数学和应用数学领域的研究成果。要求稿件准确无误、内容新颖、有重要意义，并且有较高写作水平，可以吸引众多数学家的兴趣。如果稿件内容只涉及未经证实定理的不确定步骤，或轻微变化对已知结果的影响，将不会被接受。文章论文要求篇幅较长。

AMS期刊

Proceedings of the American Mathematical Society.	《美国数学会会报》	0002-9939

Proceedings of the American Mathematical Society

中文译名：《美国数学会会报》

P- ISSN：0002-9939

E- ISSN：1088-6826

内容简介：《美国数学会会报》发表中等篇幅的纯粹数学和应用数学领域的研究成果。要求稿件准确无误、内容新颖、有重要意义，并且有较高写作水平，可以吸引众多数学家的兴趣。如果稿件内容只涉及未经证实定理的不确定步骤，或轻微变化对已知结果的影响，将不会被接受。**建议文章篇幅少于15页**。

AMS期刊

Memoirs of the American Mathematical Society. 《美国数学协会论文集》0065-9266

Memoris of the American Mathematical Society

中文译名：《美国数学协会论文集》

P- ISSN ： 0065-9266

E- ISSN ： 1947-6221

内容简介：《美国数学学会论文集》致力于出版纯粹数学和应用数学领域的研究成果，每期包含一个专题的论文或一组相关文章。期刊的投稿标准和《美国数学会汇刊》类似，要求稿件准确无误、内容新颖、有重要意义，并且有较高写作水平，可以吸引众多数学家的兴趣。**文章长度要求通常在80至200页左右**，如果不符合投稿长度范围，需要编辑委员会的特别批准才可发表。

AMS期刊

Mathematics of Computation.	《计算数学》	0025-5718

Mathematics of Computation

中文译名：《计算数学》

P- ISSN ： 0025-5718

E- ISSN ： 1088-6842

内容简介：《计算数学》由美国数学会出版，创办于1943年，每年出版4期，主要收录计算数学领域高质量的研究文章。学科覆盖数值分析、计算离散数学、数论、代数和组合等相关领域。内容包括大量原始数学分析和计算法发展的文章，同时包括部分计算数学方面书籍的评论。

AMS期刊

Transactions of the Moscow Mathematical Society.	《莫斯科数学会汇刊》	0077-1554

翻译刊

Transactions of the Moscow Mathematical Society

中文译名：《莫斯科数学会汇刊》

P- ISSN：0077-1554

E- ISSN：1547-738X

内容简介：《莫斯科数学会汇刊》由美国数学会出版，创办于1978年，每年出版1期。是俄文期刊 *Trudy Moskovskogo Matematicheskogo Obshchestva* 的英译版本主要包括纯数学领域的原创研究成果。

AMS期刊

Theory of Probability and Mathematical Statistics.	《概率论与数理统计学》	0094-9000

翻译刊

Theory of Probability and Mathematical Statistics

中文译名：《概率论与数理统计学》

P- ISSN：0094-9000

E- ISSN：1547-7363

内容简介：《概率论与数理统计学》是基辅大学出版的俄文期刊 Teoriya Imovirnostei ta Matematichna Statistika 的完整英译翻译版，每年2期。刊载数学统计学方面的相关资讯。

AMS期刊

St. Petersburg Mathematical Journal. 《圣彼得堡数学杂志》 1061-0022

翻译刊

ST.Petersburg Mathematical Journal

中文译名：《圣彼得堡数学杂志》

P- ISSN：1061-0022

E- ISSN：1547-7371

内容简介：《圣彼得堡数学杂志》由俄罗斯科学院数学部出版，美国数学会翻译发行的国际刊物，每年出版六期。是俄语期刊 Algebra i Analiz 的英译版本。刊载研究性文章、说明性文章和书评，包括俄罗斯及其他国家杰出数学家的文章。

AMS期刊

OA刊

Notices of the American Mathematical Society

中文译名：《美国数学会通告》

P- ISSN：0002-9920

E- ISSN：1088-9477

内容简介：《美国数学会通告》由美国数学学会出版，创办于1954年，每年出版11期。报道美国数学会的各种学术会议的安排、出版物信息、数学界新闻、世界数学学术会议一览表、学会事务报告、会员通讯以及数学界关注的其他消息和资料。期刊偶有介绍数学研究最新发展动向的短篇说明性文章。

AMS期刊

OA刊

Bulletin of the American Mathmatical Society

中文译名：《美国数学会通报（新辑）》

P- ISSN：0273-0979

E- ISSN：1088-9485

内容简介：《美国数学会通报（新辑）》创办于1891年，每年4期，是美国数学学会最早出版的刊物之一。刊载阐发性的文章、书评和研究通报。旨在通过阐发性的文章，让所有数学领域的研究者都可以了解某一特定数学领域的发展情况。同时邀请数学领域的权威专家对部分挑选的数学书籍进行评论。

提纲

- AMS及AMS出版物简介
- MathSciNet功能演示
- AMS 电子刊浏览及检索功能演示
- MathSciNet校外访问
- AMS主站及其他资源介绍
- FAQ

校外使用MathSciNet—设备漫游

- 在校外使用数字资源的传统办法
  - 采用学校提供的VPN帐号，在PC端远程登录即可使用
- 没有VPN或用移动设备怎么办？
  - 传统VPN需安装插件，通常只支持在PC端使用
  - MathSciNet支持对用户的设备（笔记本电脑、平板、手机等设备）进行绑定，绑定后可在任何校内外互联网环境使用
  - 绑定设备的先决条件：

    确保被绑定的设备在校园网环境内（学校提交给AMS的外网IP段内）
  - 绑定有效期：

    每次绑定的有效期为90天，到期后自动失效，到期后可再次绑定

校外访问

Your device/ web browser must meet the following basic technical requirements:

Accepts cookies

Has Javascript enabled

Has local storage

Has "private browsing" turned off

Is connected to the internet

Note: Devices with multiple browsers will only be paired with the browser in use at the time of pairing. For example, if you have Safari, Firefox, and Chrome on your device, and enable pairing while using Chrome, then your device will not be paired when using Safari or Firefox.

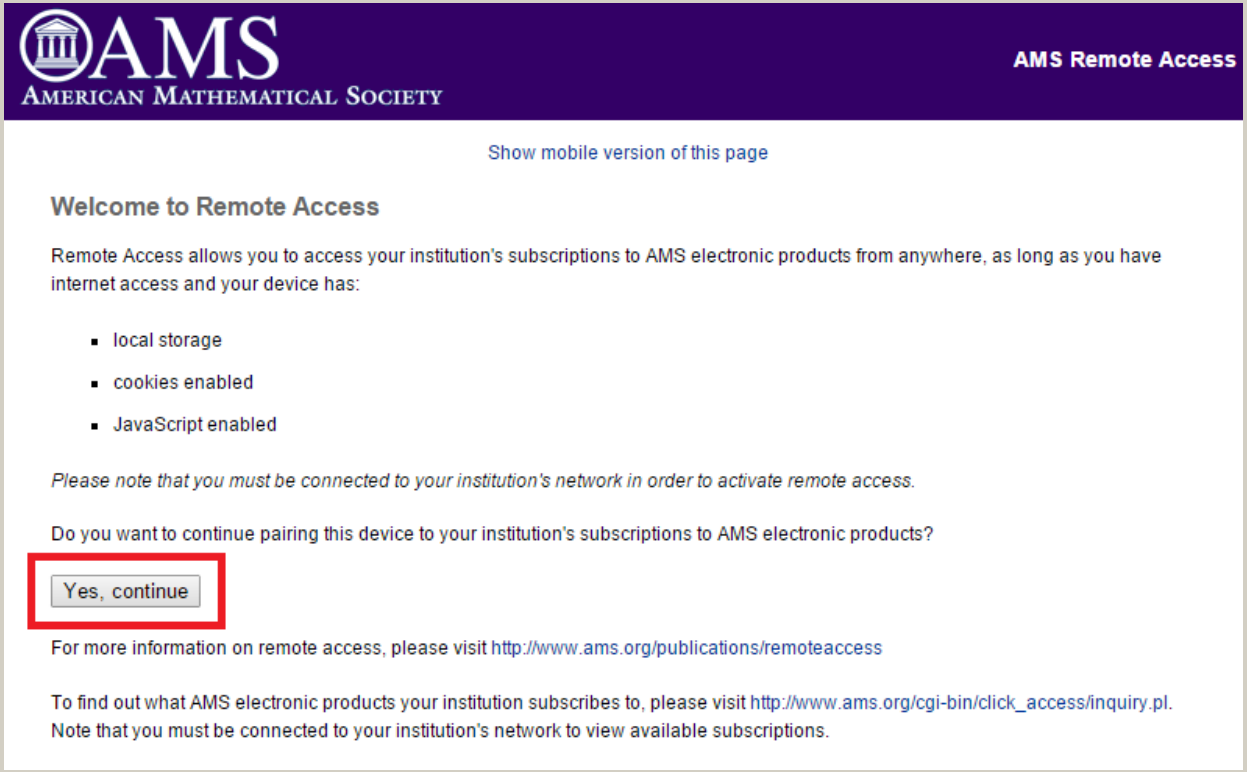
校外访问

校外使用MathSciNet—设备漫游

- 绑定步骤：
  1. 进入MathSciNet首页：ams.org/mathscinet
  2. 点击右上角的 Remote Access 图标

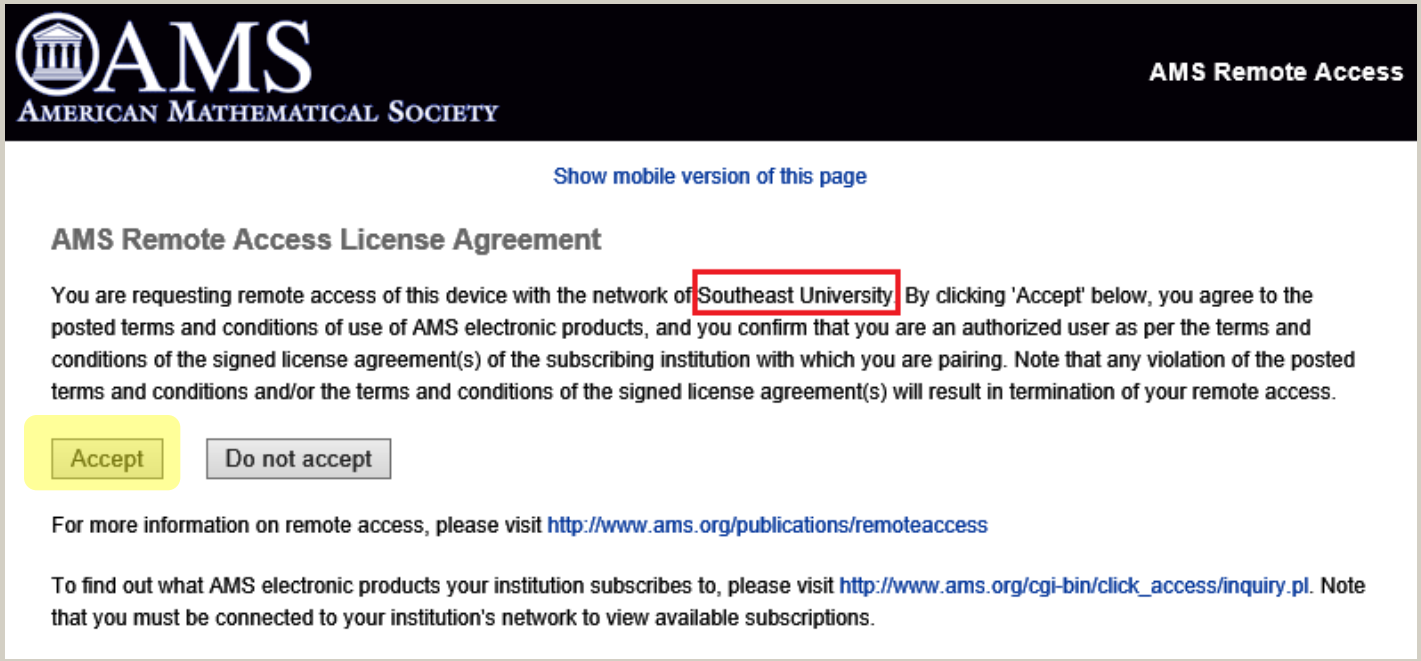
校外使用MathSciNet—设备漫游

3. 点击确认匹配



校外使用MathSciNet—设备漫游

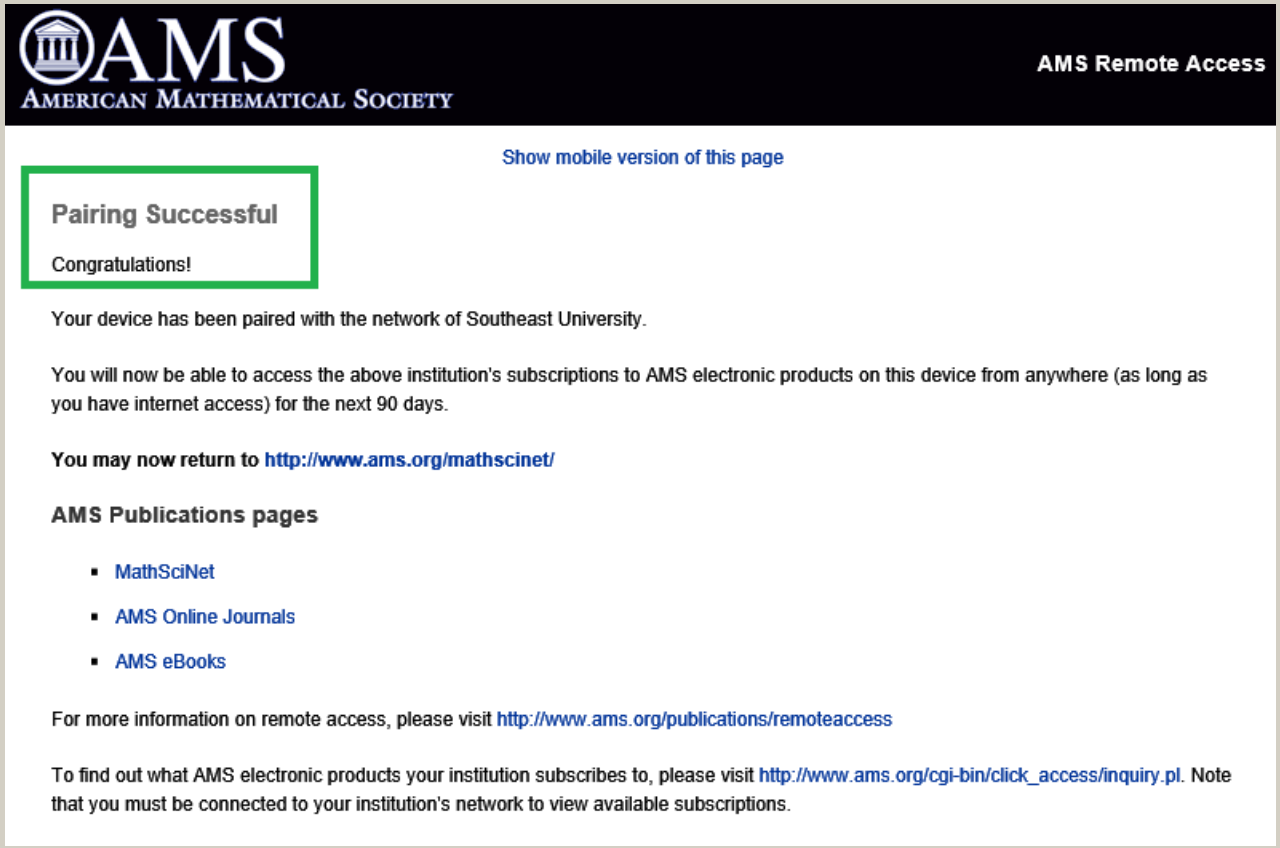
4. 相关绑定授权说明



校外访问

校外使用MathSciNet—设备漫游

5. 绑定成功



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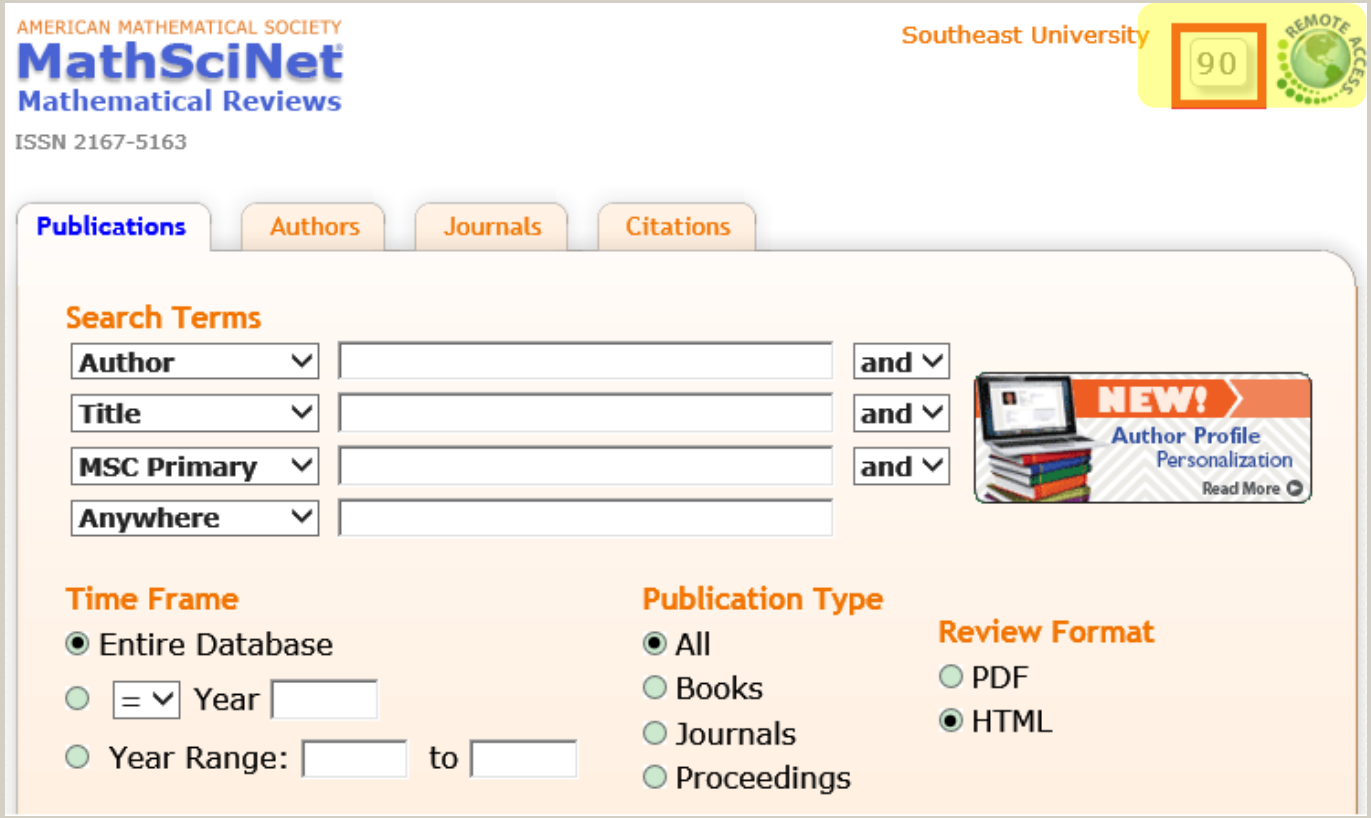
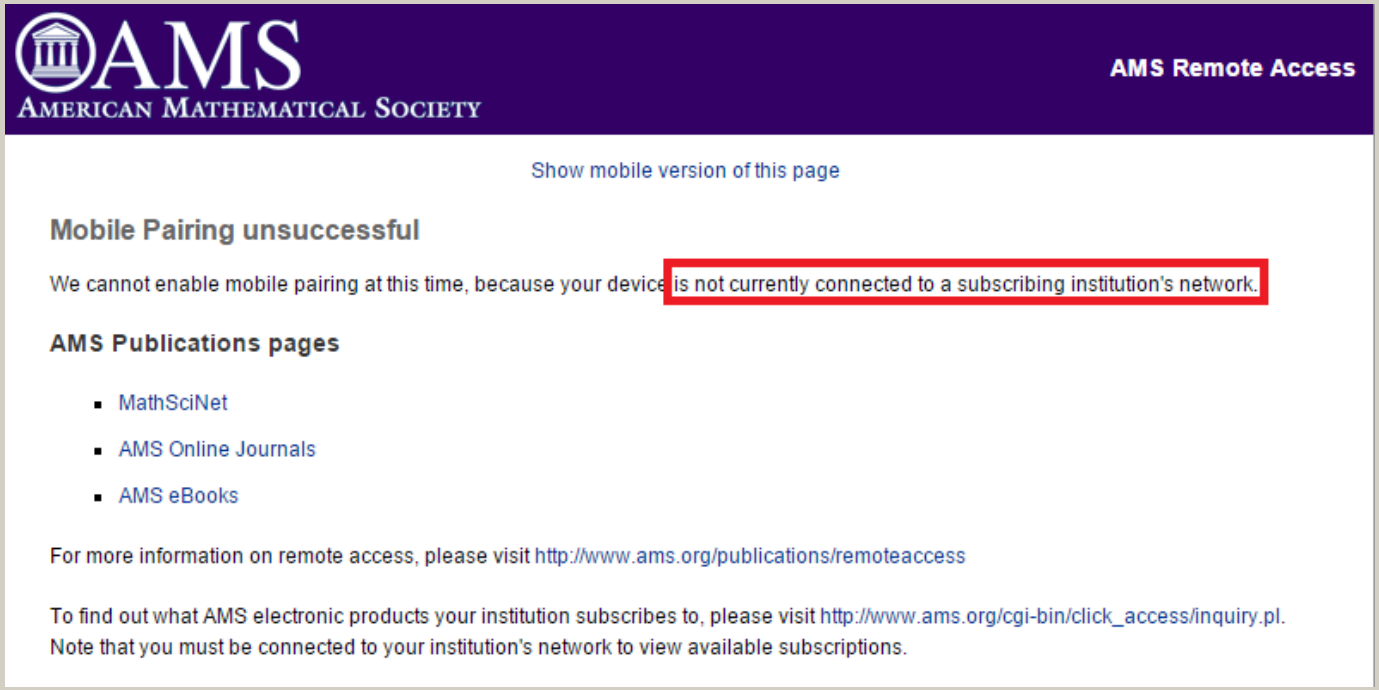
6. 首页会显示剩余漫游天数



校外使用MathSciNet—设备漫游

7. 绑定失败的提示

如遇到错认提示先确认设备是否在校园网，如果在校园网还是无法使用，可直接联系我们



校外使用MathSciNet—设备漫游

8. 绑定成功后，还是无法访问，可能的原因会有：

- ✓ 在VPN环境下绑定是无效，一定要在校园网内绑定；
- ✓ 浏览器Cookie权限问题；

或联系我们，进行支持：

010-57933139（刘瑶），18611837448（陈正良）

QQ:14098835，Email：ams@libstage.com

提纲

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- FAQ

AMS主站及其他资源介绍

- AMS OA期刊
  - Notice of AMS、Bulletin of AMS
- AMS 电子书
- 数学系谱项目（ Mathematics Genealogy Project ）
- 数学艺术馆（ http://www.ams.org/mathimagery ）
- 其他常用数学类资源网站

AMS OA期刊介绍: Notices of the AMS

Notices of the AMS (1995~) http://www.ams.org/journals/notices/

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of the American Mathematical Society

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December 2016
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FROM THE EDITOR

In these last few pages of 2016, we feature Siegel's problem and the Graduate Student Section: an interview of Gigliola Staffilani; "What is Symplectic Geometry"; an interview with Helen G. Grundman, the new and first AMS Director of Education and Diversity; and the latest "My Professor" comic strip, responded to on our BackPage by a new "My TA" comic strip. From October through December the BackPage moves to immediately after the Graduate Student Section in order to feature the premier January Joint Mathematics Meetings at the end of the issue. —Frank Morgan, Editor-in-Chief

Feature Articles

A Conversation with Helen G. Grundman, AMS Director of Education and Diversity

AMS OA期刊介绍: Bulletin of the AMS

Bulletin of the AMS (1891~) http://www.ams.org/journals/bull

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The American Mathematical Society makes all issues of the Bulletin freely available to all mathematicians through the generosity of its members.

Year	Volume	Issue
Free Archive	53	1
2016		2
2015		

AMS 电子书简介

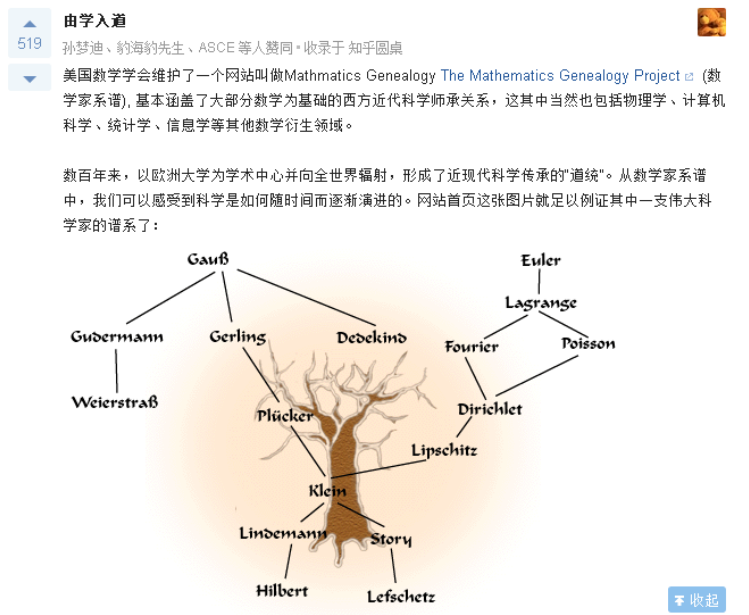
- 为了提高数学文献资源的可得性，美国数学学会推出了电子书项目(即 AMS eBook)。AMS eBook是美国数学会出版的论文集和期刊按年度和卷期汇编而成的电子书项目，提供了大量的电子版内容，大大提高了数学文献资料的便携性、可搜索性、和易用性；目前已更新至2016年。

AMS eBooks	
e-Contemporary Mathematics Backfile, 1980–2011	《当代数学》1980-2011年
e-Memoirs of the AMS Backfile, 1950–2012	《美国数学协会论文集》1950-2012年
e-Proceedings of Symposia in Applied Mathematics Backfile, 1949–2012	《应用数学研讨会论文集》1949-2012年
e-Proceedings of Symposia in Pure Mathematics Backfile, 1959–2012	《纯粹数学研讨会论文集》1949-2012年
Mathematical Surveys and Monographs	《数学调查与专著》

AMS主站资源：数学家系谱（ Mathematics Genealogy Project）

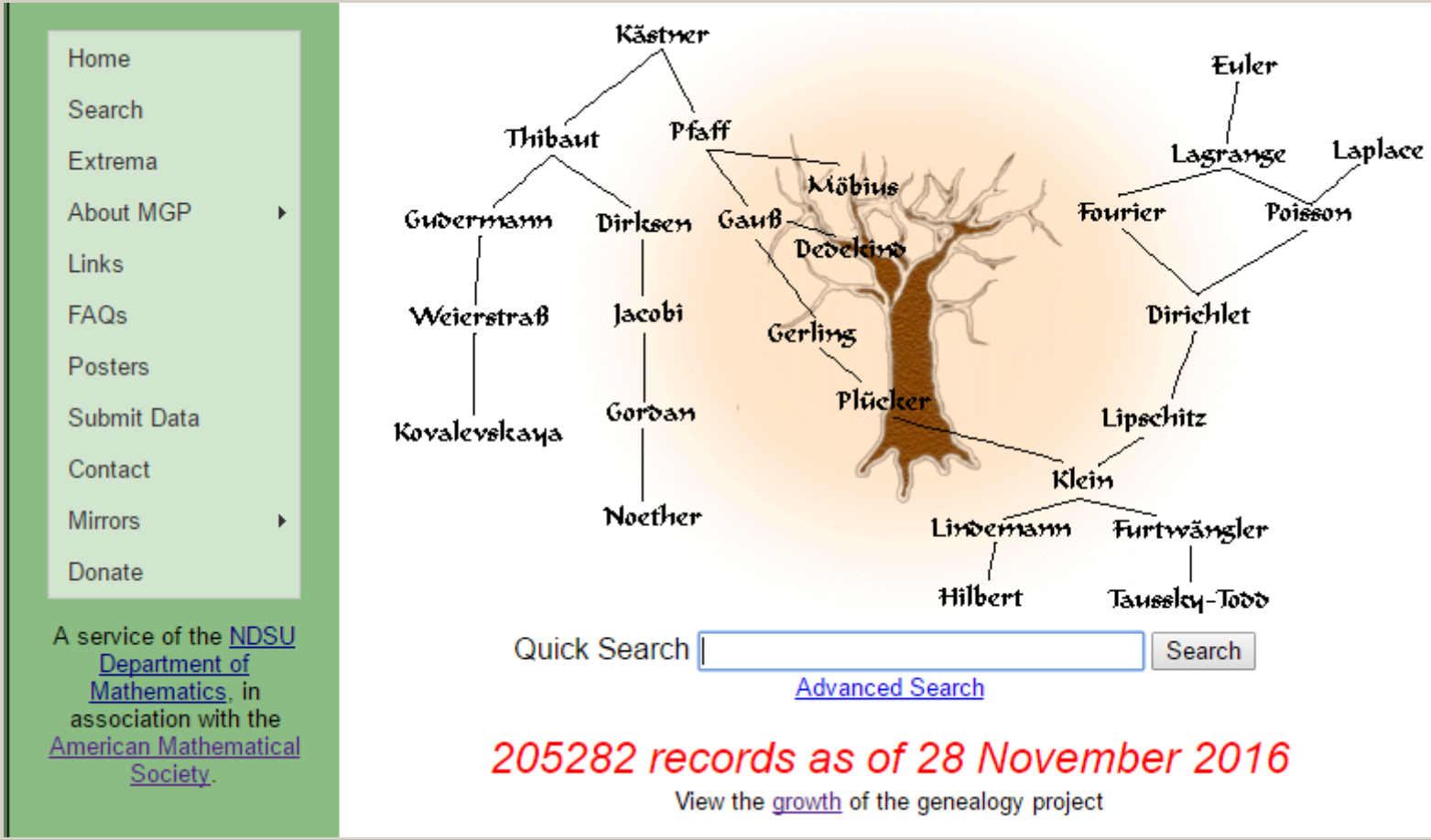
MGP项目基本涵盖了大部分以数学为基础的西方近代科学师承关系，这其中当然也包括物理学、计算机科学、统计学、信息学等其他数学衍生领域。

知乎网站有个数学领域的答主对这个功能做过初步的介绍，大家有时间的时候可以翻翻看



AMS主站资源：数学家系谱（ Mathematics Genealogy Project）

http://www.genealogy.ams.org/



Search the database

205282 records as of 28 November 2016

View the growth of the genealogy project

Thank you for visiting the Mathematics Genealogy Project web page. We hope you find the information here both interesting and helpful. While you are visiting this site, please keep in mind that this is an ongoing project. Due to the difficulty in obtaining the type of organized data we need, and the varying sources of data, this project is continuously changing.

Not all fields are required to search for a particular mathematician. Partial matches will work as well. See examples and tips below.

First/Given Name
Middle Name
Last/Family Name
Name of School
Year of Degree
Thesis Keyword
Country
Math Subject Class

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Examples

To search for all Mathematicians who received their degree from the University of Wisconsin in 1950:
Name of School: University of Wisconsin
Year of Degree: 1950

Your search has found 30 records in our database.
Display results in chronological order.

Cao, Hui-Qin	Nanjing University	2007
Chen, Caihua	Nanjing University	2012
Chen, Zhenyu	Nanjing University	2006
Cheng, Wei	Nanjing University	1999
Ding, Bingbing	Nanjing University	2015
Ding, Nanqing	Nanjing University	1993
Geng, Yuxian	Nanjing University	2009
Guo, Song	Nanjing University	2007
Han, Deren	Nanjing University	2002
Jiang, Zhikai	Nanjing University	2008
Li, Min	Nanjing University	2007
Mao, Lixin	Nanjing University	2005
Pan, Hao	Nanjing University	2006
Pan, Linqiang	Nanjing University	2000
Qiu, Jianxian	Nanjing University	2001
Shao, Hu	Nanjing University	2007
Shen, Yuan	Nanjing University	2012
Su, Xifeng	Nanjing University	2011
Sun, Zhi-Wei	Nanjing University	1992
Wang, Wei	Nanjing University	2007
Wang, Xiangfeng	Nanjing University	2014
Wang, Yongduo	Nanjing University	2005
Wu, Tongsuo	Nanjing University	1995
Xu, Chungen	Nanjing University of Science and Technology	2003

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AMS American Mathematical Society

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More databases...

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www.ams.org/mathscinet

其他数学类资源网站

ams.org/mathimagery （AMS主办的数学艺术馆，以图片为主）

ams.org/about-us/blogs （AMS官方的各类数学博客网站）

arXiv.org（收录物理、数学预印本资源网站)

mathoverflow.net/（数学领域问答网站）

www-history.mcs.st-and.ac.uk/（数学史网站，已与MSN部分作者主页链接）

FAQ
Thank you

010-57933139（刘瑶），18611837448（陈正良）

QQ:14098835，Email：ams@libstage.com