2012

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Zentralblatt MATH/ZBMath Training Guide

Why an Abstracting and Indexing Service in Mathematics?

- To provide comprehensive information on all available mathematical literature
- To provide a unique navigation tool for accessing mathematical publications
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- To describe the mutual impact of mathematical publications
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Zentralblatt MATH (ZBMATH)

- The **world's largest and most comprehensive, most accurate, and longest running reviewing service** in mathematics.
- Offers **complete and easy access** to abstracts and reviews in mathematics **from 1868** to the present.
- Contains **more than 3 million entries** drawn from more than **3,500 journals and 1,100 serials**, with coverage across mathematics, statistics, computer sciences and applications of these disciplines to engineering, physics, economics, life sciences and more. Includes about 160,000 books.
- Reviews are written by **more than 6,000 active experts** from all over the world and **over 120,000 new items are added each year**.
- Contains in total about 35,000 reviews. 50% of the items in core mathematic disciplines are covered by reviews.

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- Combinatorics
- Mathematical aspects of computer science
- Numerical analysis and scientific computing
- Control theory and optimization
- Mathematics in science and technology
- Mathematics education and popularization of mathematics
- History of Mathematics

Who stands behind Zentralblatt MATH

- Editor-in-Chief as of 2012:
  Gert-Martin Greuel, the director of the world-famous Mathematical Research Centre, Oberwolfach. Professor at the University of Kaiserslautern, and Chair of ERCOM (European Research Centres on Mathematics)

- Edited by:
  - FIZ Karlsruhe
  - EMS (European Mathematical Society)
  - Heidelberg Academy of Science
- Published by Springer

Advantages of Zentralblatt MATH: CONTENT

- Number of entries/items: More than 3 million
- Quality of items: All items since 1970 indexed with an MSC code (Mathematics Subject Classification) – about 2.6 million items MSC-categorized; nearly all items categorized with keywords; only about 3% are not categorized ("title-only") as they are recent input
- All items go through a review process
- Journals covered: about 3,500
- Series covered: about 1,100
- Books covered: about 160,000
- Coverage: starting as of 1826, complete coverage as of 1868
  High relevancy of "old" publications: e.g. between 2000 and 2009 more than 1,200 papers were cited which were published 1880-1889

Advantages of Zentralblatt MATH: USABILITY

- Search Options: Free logical combination of facets possible; option of refining / enlarging search results; search history, several additional search options (source, language, publisher, keywords, ISBN, DOI)
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- Formulas: Quick, accurate and complete display also of complex formulas and equations eased through MathML which is preset.

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Browsers

Highly recommended to install the free MathPlayer plug-in to be able to enter the **newest database version** including the newest **author database** and guaranteeing a **correct display of mathematical formulas**

- Recommended browser: Mozilla Firefox
- Internet Explorer from 8.0 partially possible via MathPlayer plugin, without plugin probably possible from 10.0
- Opera (as of 9.5), Safari (as of 5.1), SeaMonkey, Iceweasel, Netscape, Chrome (most likely as of 20.0)

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Continue with a live demo (internet) or use the following screenshots

- Be aware of changes of the ZBMath websites – re-design is planned to improve navigation and usability in general
- In process: all browsers direct to the same interface

Be aware of the Interface Versions www.zentralblatt-math.org

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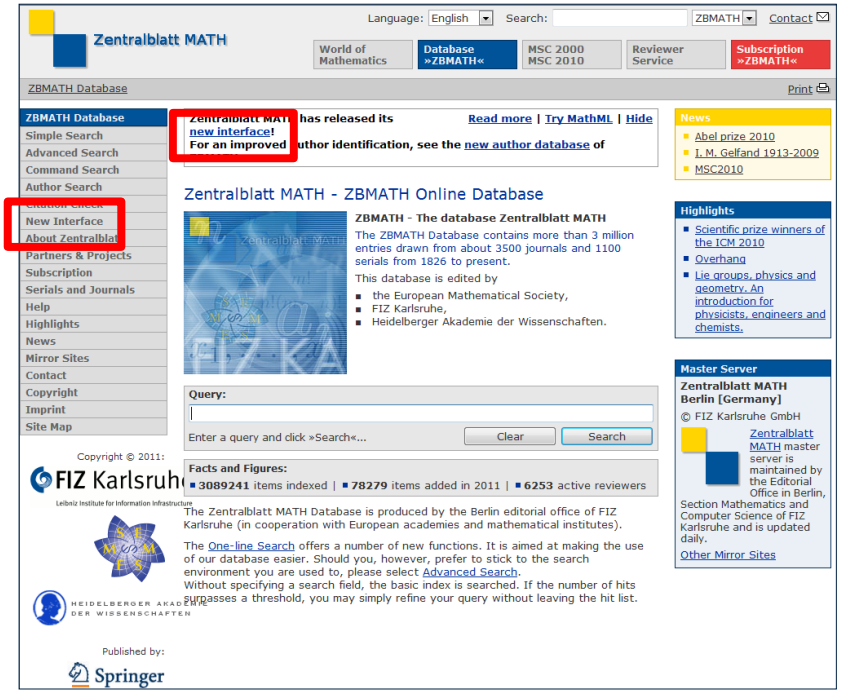

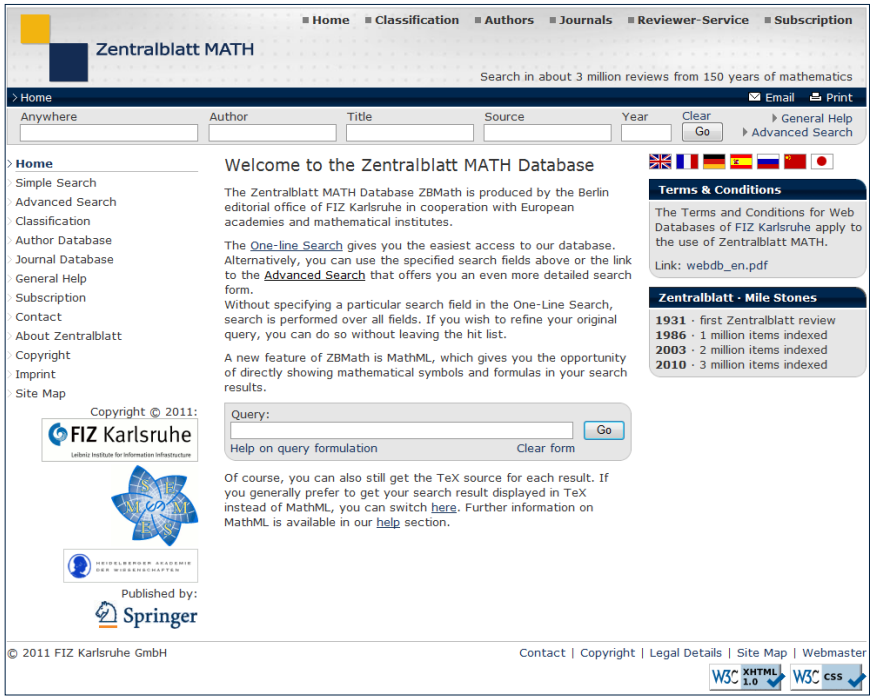

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A new feature of ZBMath is MathML, which gives you the opportunity of directly showing mathematical symbols and formulas in your search results.

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Link: webdb_en.pdf

Zentralblatt · Mile Stones

1931 · first Zentralblatt review
1986 · 1 million items indexed
2003 · 2 million items indexed
2010 · 3 million items indexed

Top and left side navigation

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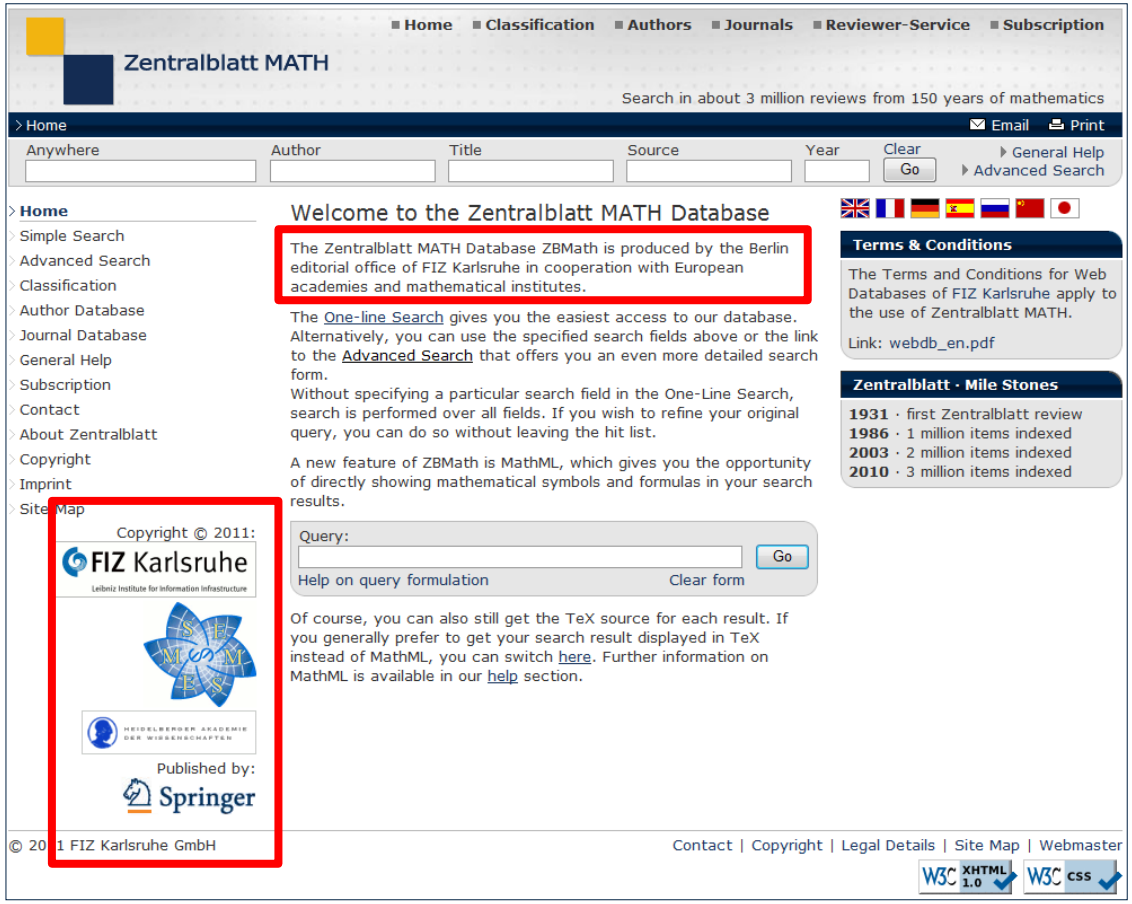

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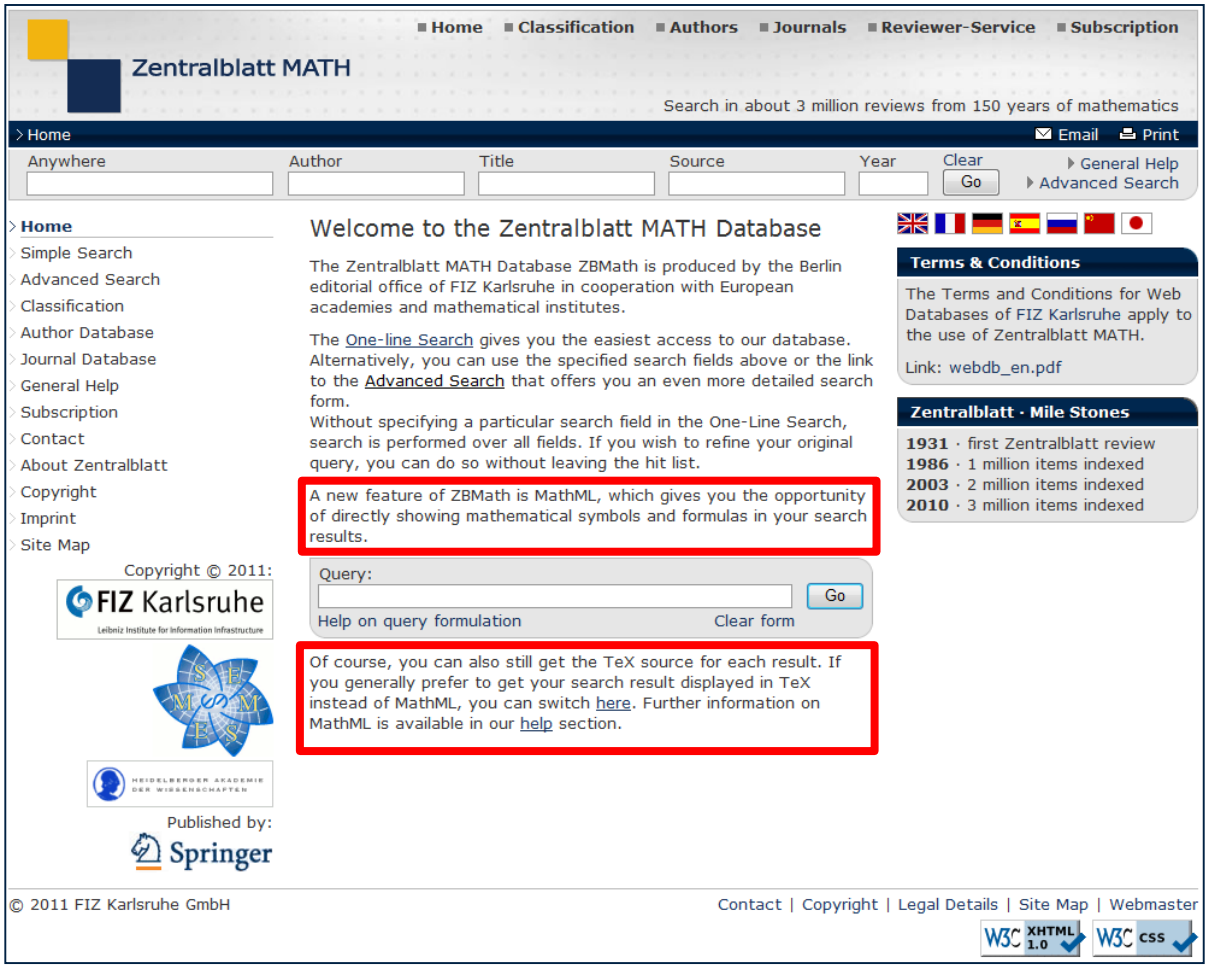
Display of Formula Use of MathML or TeX



Integrated MathML (Mathematics Markup Language) enables immediate display of complex equations and formulas.

If display in TeX is preferred, it‘s possible too.

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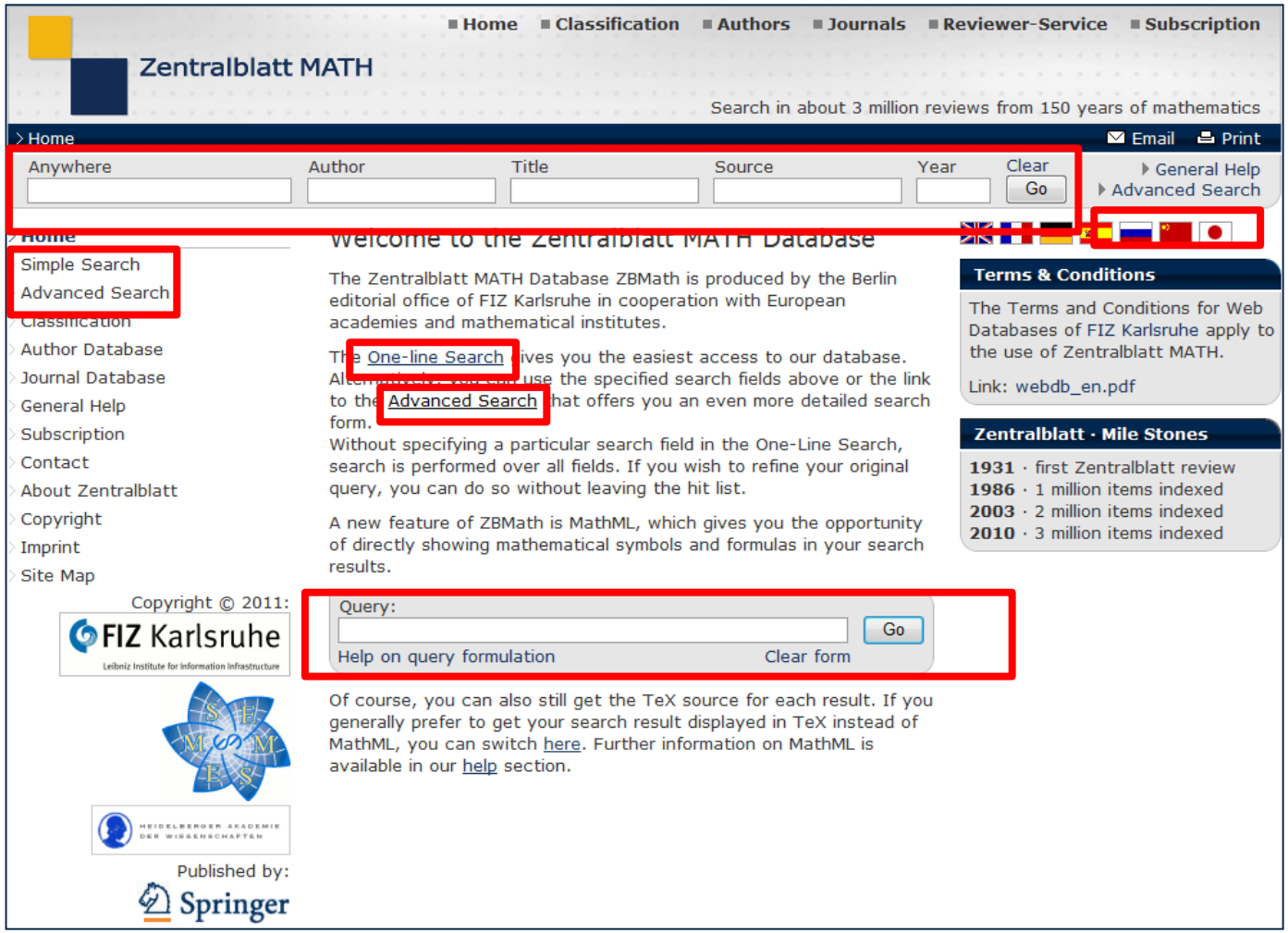
Search Fields / Advanced Search / One-line Query



Search Fields

Advanced Search links to an interface with even more search categories and Boolean Operations

One-Line Query

Simple Search: either search with Search Fields or One-Line Search

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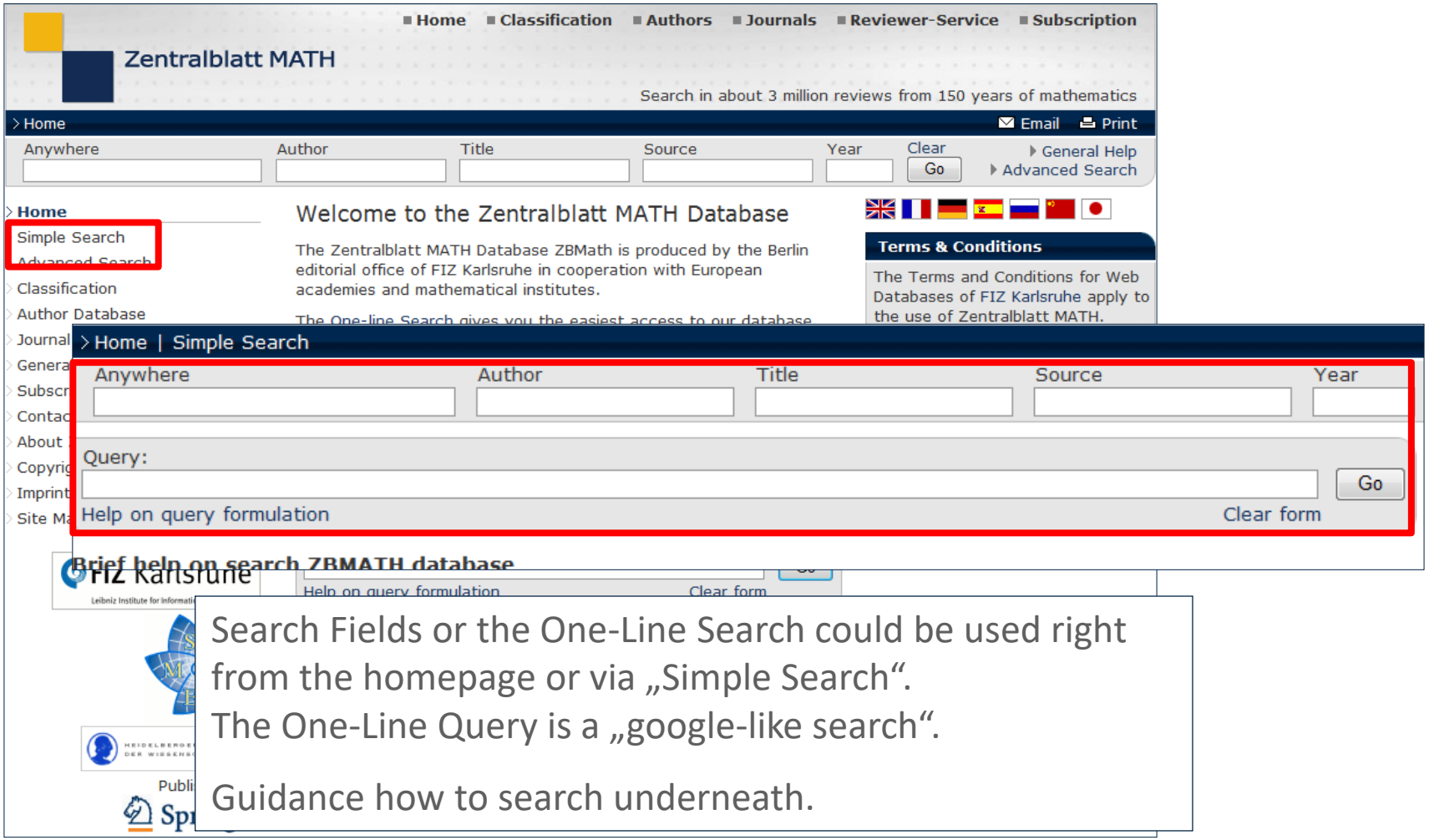
Simple Search: Search Fields or One-Line Search



Search Fields or the One-Line Search could be used right from the homepage or via „Simple Search“.
The One-Line Query is a „google-like search“.

Guidance how to search underneath.

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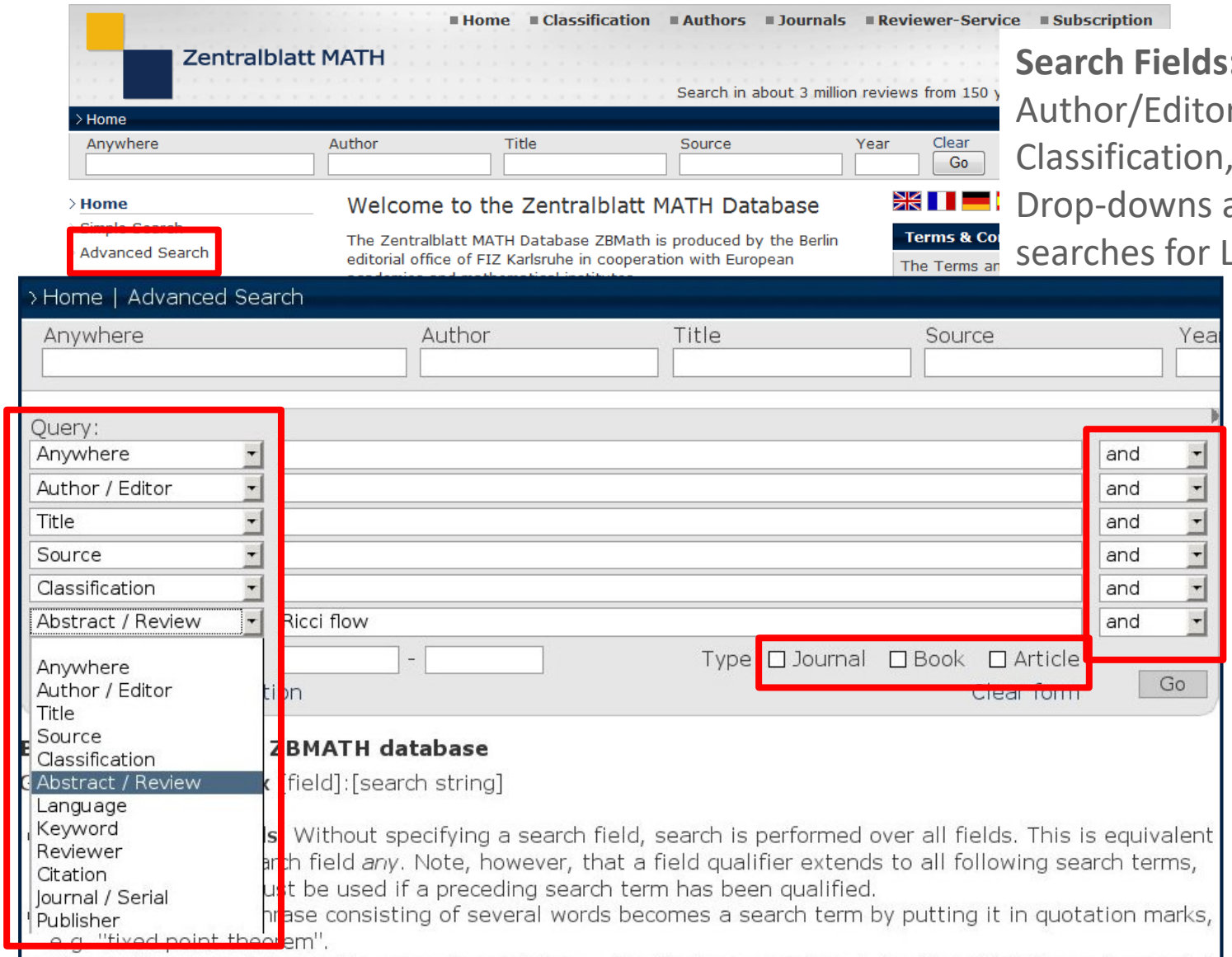
Advanced Search: more search fields / boolean operations



Search Fields: Anywhere, Author/Editor, Title, Source, Classification, Abstract/Review

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Boolean Operations: and / or / not

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Brief help on search ZBMATH database

General search syntax [field]:[search string]

- **Default search fields:** Without specifying a search field, search is performed over all fields. This is equivalent to specifying the search field *any*. Note, however, that a field qualifier extends to all following search terms, and therefore *any* must be used if a preceding search term has been qualified.
- **Phrase search:** A phrase consisting of several words becomes a search term by putting it in quotation marks, e.g. "fixed point theorem".
- **Connecting search terms:** To connect search terms, the Boolean operators & *(and)* and | *(or)* may be used. A search for terms connected with & will give all documents containing all these terms, while using | will give all documents containing any of these terms. The operator ^ *(not)* can also be used.
- **Connection default is &:** If the search string contains several words separated by blanks but not put in quotation marks, the query will give all documents containing *all* these words. This is therefore equivalent to connecting the words with the operator & *(and)*.
- **Abbreviating search terms:** Right truncation of search terms is possible by placing the * symbol at the end of the search term. To truncate a phrase enclosed in quotation marks, the * must be put **before** the closing quotation mark. This kind of "wildcarding" is possible only at the end (but not within) of a word or phrase; if the * symbol is found within a phrase, it has no effect.

Examples

"einstein manifold"	ti:"cauchy process*"	cc:05C55
"einstein manifold*"	any:eigenvalue*	cc:*05C55
einstein manifold*	au:hirzebruch,f*	an:1089.11026
einstein & manifold*	la:russian	an:05654321
einstein | manifold*	rv:dieudonne	
au:einstein, a* & any:manifold*		

Search fields

Field	Description
any	Joint index of all fields.
au	Authors, editors, and author references.
ti	Original and translated titles.
so	Source data, including journal or serial title, volume and issue number, pagination, publisher, and publication year.
cc	Mathematics Subject Classification (MSC 2010). The symbol * in front of an MSC code means primary classification.
ut	Keywords (Uncontrolled terms not from a controlled vocabulary).
py	Publication year(s).
la	Languages and ISO 639-1 alpha-2 language codes.
dt	Document types: (j, b, a) j → journal article; b → book; a → book article
an	Zentralblatt MATH identifier and document (DE) number.
rv	Reviewers.

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Result **1** to **20** of **691** total
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1 21 41 61 81 101

1 Zbl 05968481 **Hsu, Shu-Yu**
Lower bound for the scalar curvature of the standard solution of the Ricci flow. (English)
Int. Math. Forum 6, No. 17-20, 829-835 (2011).
MSC 2010: 58J35 53C44 58C99
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2 Zbl 05959532 **Fillastre, François; Izmestiev, Ivan**
Gauss images of hyperbolic cusps with convex polyhedral boundary. (English)
Trans. Am. Math. Soc. 363, No. 10, 5481-5536 (2011).
MSC 2010: 57M50 52A55 52C26 52C25
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History

1	ricci flow	691
2	inventiones ricci flow	9
3	inventiones ricci	51
4	inventiones	3740

Clear

1 Zbl 1130.53003 **Perelman, Grisha**
Finite extinction time for the solutions to the Ricci flow on certain three-manifolds. (English)
arXiv e-print service, Cornell University Library, Paper No. 0307245, 7 p., electronic only (2003)
MSC 2010: 53-02 53C44 53C21 57M40 57R60 · Reviewer: Gérard Besson (Grenoble)
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History

1	au:perelman grisha	9
2	ricci flow	691
3	inventiones ricci flow	9
4	inventiones ricci	51

Visualization of the Search History facilitates modifications or refinements of searches.

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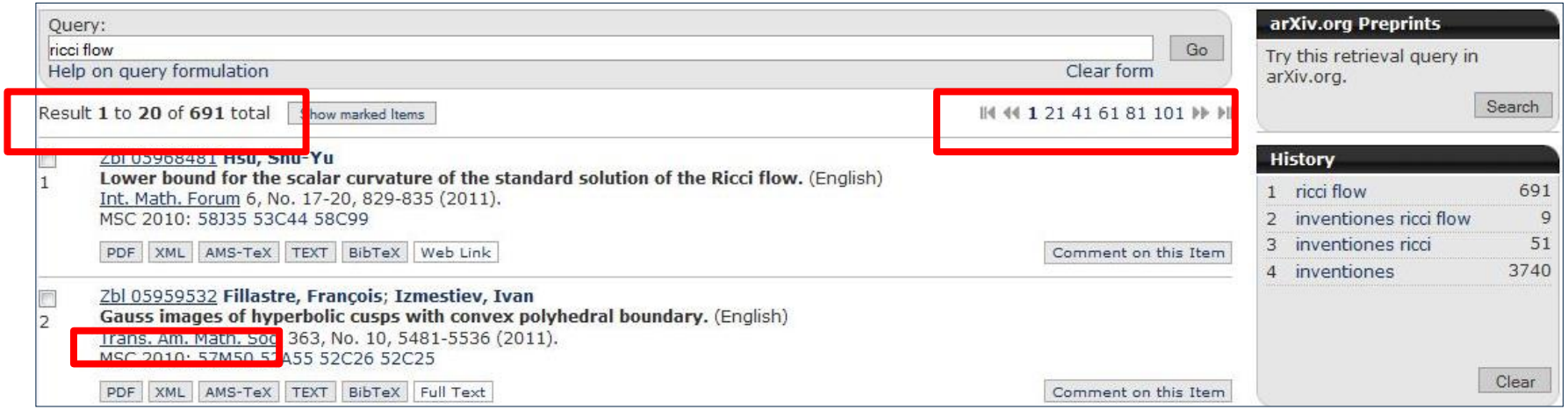

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1 [MATRIX] Zbl 1234.35318 Andersson, John; Shahgholian, Henrik; Weiss, Georg S.
On the singularities of a free boundary through Fourier expansion. (English)
Invent. Math. 187, No. 3, 535-587 (2012).
MSC 2010: 35R35 35B40 35J60
PDF | XML | AMS-TeX | TEXT | BibTeX | Full Text | Comment on this Item

2 [MATRIX] Zbl 06021979 G\'erard, Patrick; Grellier, Sandrine
Invariant tori for the cubic Szeg\"o equation. (English)
Invent. Math. 187, No. 3, 707-754 (2012).
MSC 2010: 35B15 37K15 47B35
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3 [MATRIX] Zbl 06021978 Sznitman, Alain-Sol
Decoupling inequalities and interlacement percolation on $G\times \mathbb Z$. (English)
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4 [MATRIX] Zbl 06021977 Pop, Florian
On the birational anabelian program initiated by Bogomolov. I. (English)
Invent. Math. 187, No. 3, 511-533 (2012).
MSC 2010: 14Hxx 12Exx 14Exx 14Jxx 12E30 14E99 14H30 14J99
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5 [MATRIX] Zbl 06021976 Lin, Fanghua
Erratum: On the Dirichlet problem for minimal graphs in hyperbolic space. (English)
Invent. Math. 187, No. 3, 755-757 (2012).
MSC 2010: 35B65 35J65
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Title: On the singularities of a free boundary through Fourie expansion.
Source: Inventiones mathematicae [0020-9910, 1432-1297] yr:2012 vol:187 iss:3 pg:535

Full Text
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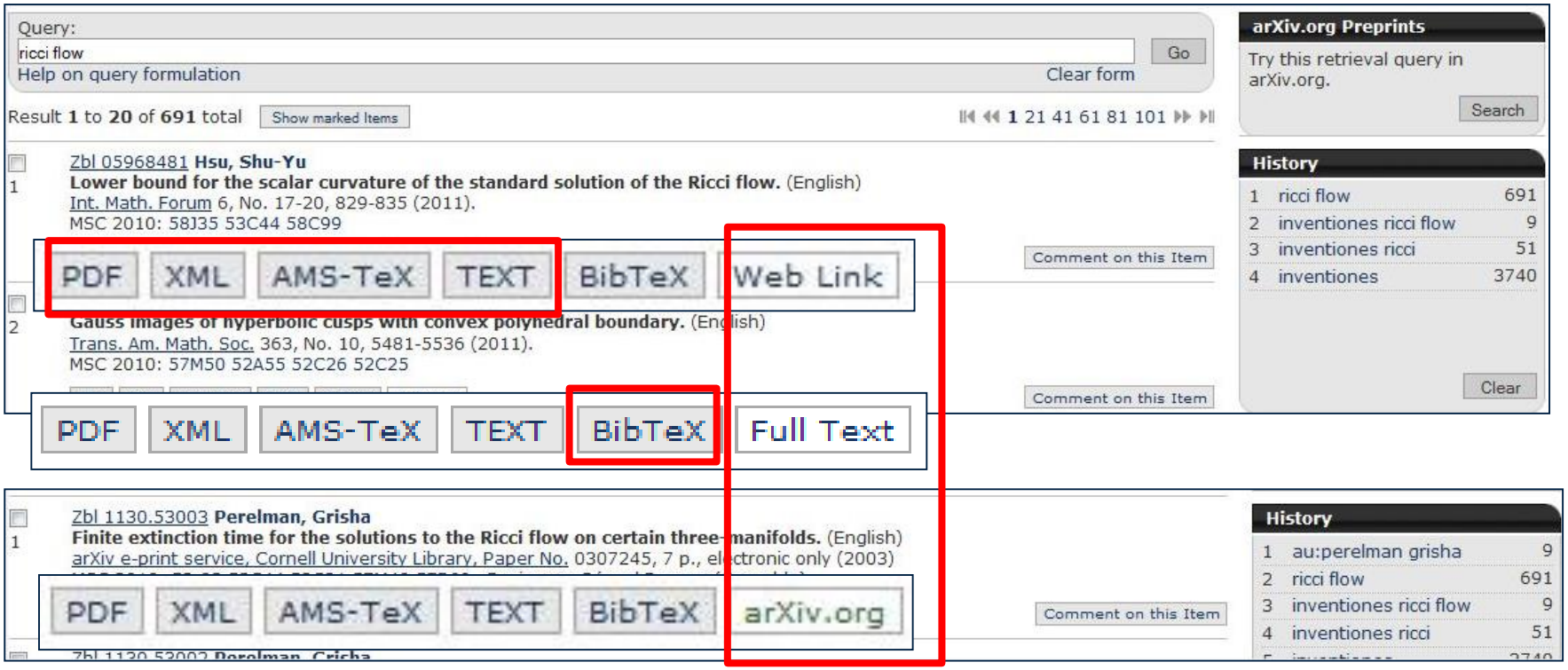

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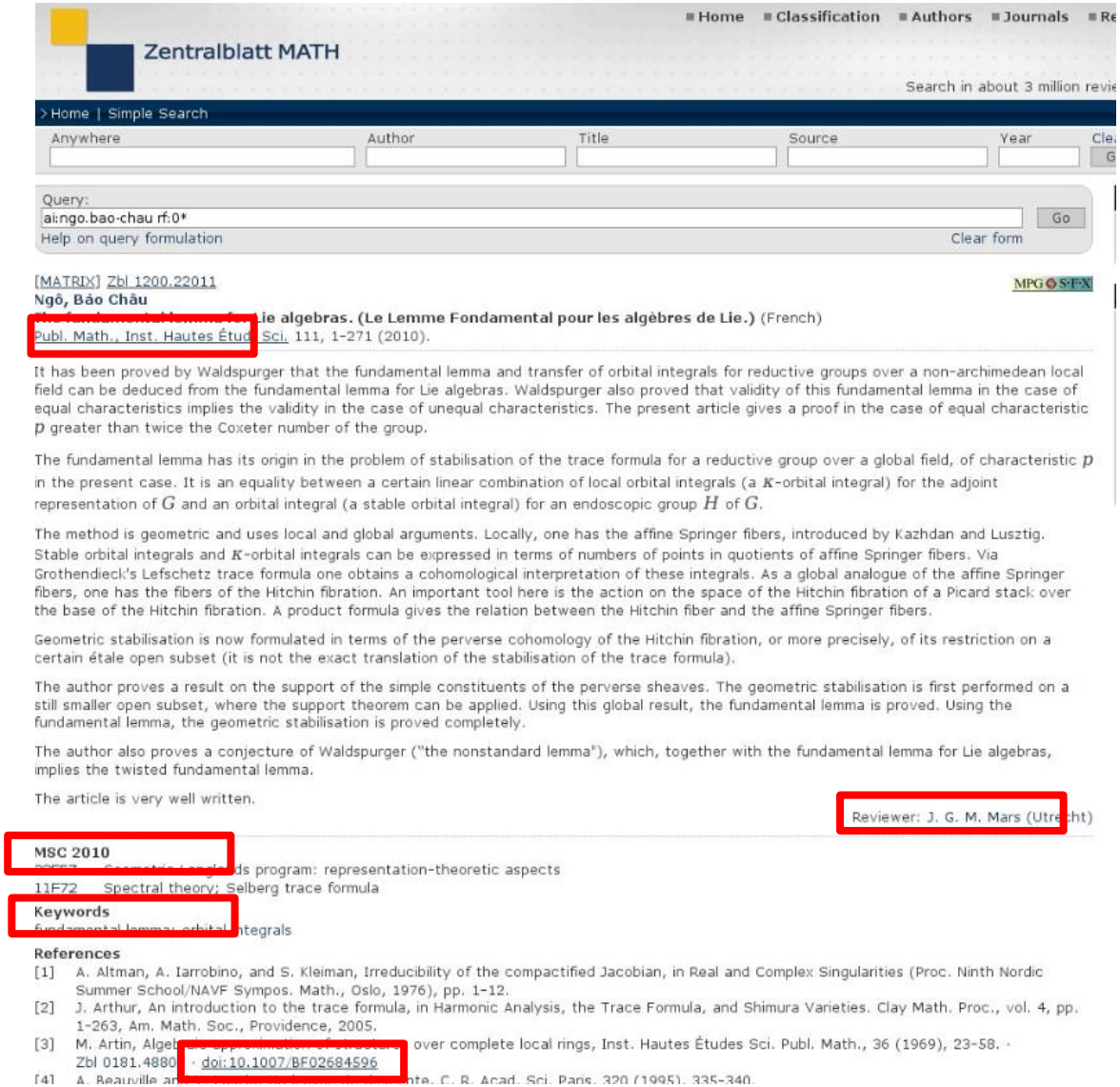

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[MATRIX] Zbl 1200.22011

Ngô, Bảo Châu

The fundamental lemma for Lie algebras. (Le Lemme Fondamental pour les algèbres de Lie.) (French)

Publ. Math., Inst. Hautes Étud. Sci. 111, 1-271 (2010).

It has been proved by Waldspurger that the fundamental lemma and transfer of orbital integrals for reductive groups over a non-archimedean local field can be deduced from the fundamental lemma for Lie algebras. Waldspurger also proved that validity of this fundamental lemma in the case of equal characteristics implies the validity in the case of unequal characteristics. The present article gives a proof in the case of equal characteristic p greater than twice the Coxeter number of the group.

The fundamental lemma has its origin in the problem of stabilisation of the trace formula for a reductive group over a global field, of characteristic p in the present case. It is an equality between a certain linear combination of local orbital integrals (a κ-orbital integral) for the adjoint representation of G and an orbital integral (a stable orbital integral) for an endoscopic group H of G.

The method is geometric and uses local and global arguments. Locally, one has the affine Springer fibers, introduced by Kazhdan and Lusztig. Stable orbital integrals and κ-orbital integrals can be expressed in terms of numbers of points in quotients of affine Springer fibers. Via Grothendieck's Lefschetz trace formula one obtains a cohomological interpretation of these integrals. As a global analogue of the affine Springer fibers, one has the fibers of the Hitchin fibration. An important tool here is the action on the space of the Hitchin fibration of a Picard stack over the base of the Hitchin fibration. A product formula gives the relation between the Hitchin fiber and the affine Springer fibers.

Geometric stabilisation is now formulated in terms of the perverse cohomology of the Hitchin fibration, or more precisely, of its restriction on a certain étale open subset (it is not the exact translation of the stabilisation of the trace formula).

The author proves a result on the support of the simple constituents of the perverse sheaves. The geometric stabilisation is first performed on a still smaller open subset, where the support theorem can be applied. Using this global result, the fundamental lemma is proved. Using the fundamental lemma, the geometric stabilisation is proved completely.

The author also proves a conjecture of Waldspurger ("the nonstandard lemma"), which, together with the fundamental lemma for Lie algebras, implies the twisted fundamental lemma.

The article is very well written.

Reviewer: J. G. M. Mars (Utrecht)

MSC 2010

22E57 Geometric Langlands program: representation-theoretic aspects

11F72 Spectral theory; Selberg trace formula

Keywords

fundamental lemma; orbital integrals

References

[1] A. Altman, A. Iarrobino, and S. Kleiman, Irreducibility of the compactified Jacobian, in Real and Complex Singularities (Proc. Ninth Nordic Summer School/NAVF Sympos. Math., Oslo, 1976), pp. 1-12.

[2] J. Arthur, An introduction to the trace formula, in Harmonic Analysis, the Trace Formula, and Shimura Varieties. Clay Math. Proc., vol. 4, pp. 1-263, Am. Math. Soc., Providence, 2005.

[3] M. Artin, Algebraic approximation of structures over complete local rings, Inst. Hautes Études Sci. Publ. Math., 36 (1969), 23-58. · Zbl 0181.4880 · doi:10.1007/BF02684596

[4] A. Beauville and [illegible] Compte. C. R. Acad. Sci. Paris, 320 (1995), 335-340.

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Mathematical Reviews (MR) and Zentralblatt MATH (ZBMATH) collaborate in maintaining the Mathematics Subject Classification (MSC) which is used by these reviewing services and many others to categorize items in the mathematical sciences literature. The MSC has undergone a general revision, with some additions, changes, and corrections, to create MSC2010, the successor to MSC2000, the scheme for the past 10 years. MR and ZBMATH carefully considered input received from the community in recent years, especially since the announcement of the projected revision in December 2006, and used it in the preparation of their joint MSC revision. As anticipated, there are no changes at the two-digit level but refinements have been made at the three- and five-digit levels. By July 2009 MR and ZBMATH started to use MSC2010 as their classification scheme.

MR and ZBMATH welcome and encourage community adoption of MSC2010. Comments can be submitted through the Web form found at http://msc2010.org/feedback or by email to feedback@msc2010.org. All information about MSC2010 is jointly shared by MR and ZBMATH.

The editors and their staffs wish to express their gratitude to the numerous members of the community for their assistance in this lengthy revision process.

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Nash, John*	Cirulis, J*	Kolmogorov, A*	Recillas Pishmish

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Kolmogorov | Go

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Spellings: Kolmogorov, V.L. [3]; Kolmogorov, V. L. [3]; Kolmogorov, V. [1]

5 **Kolmogorov, Vladimir** Show 8 hits in ZBMATH · Open Author Profile
Author-Id: kolmogorov.vladimir
Spellings: Kolmogorov, Vladimir [7]; Kolmogorov, V. [1]

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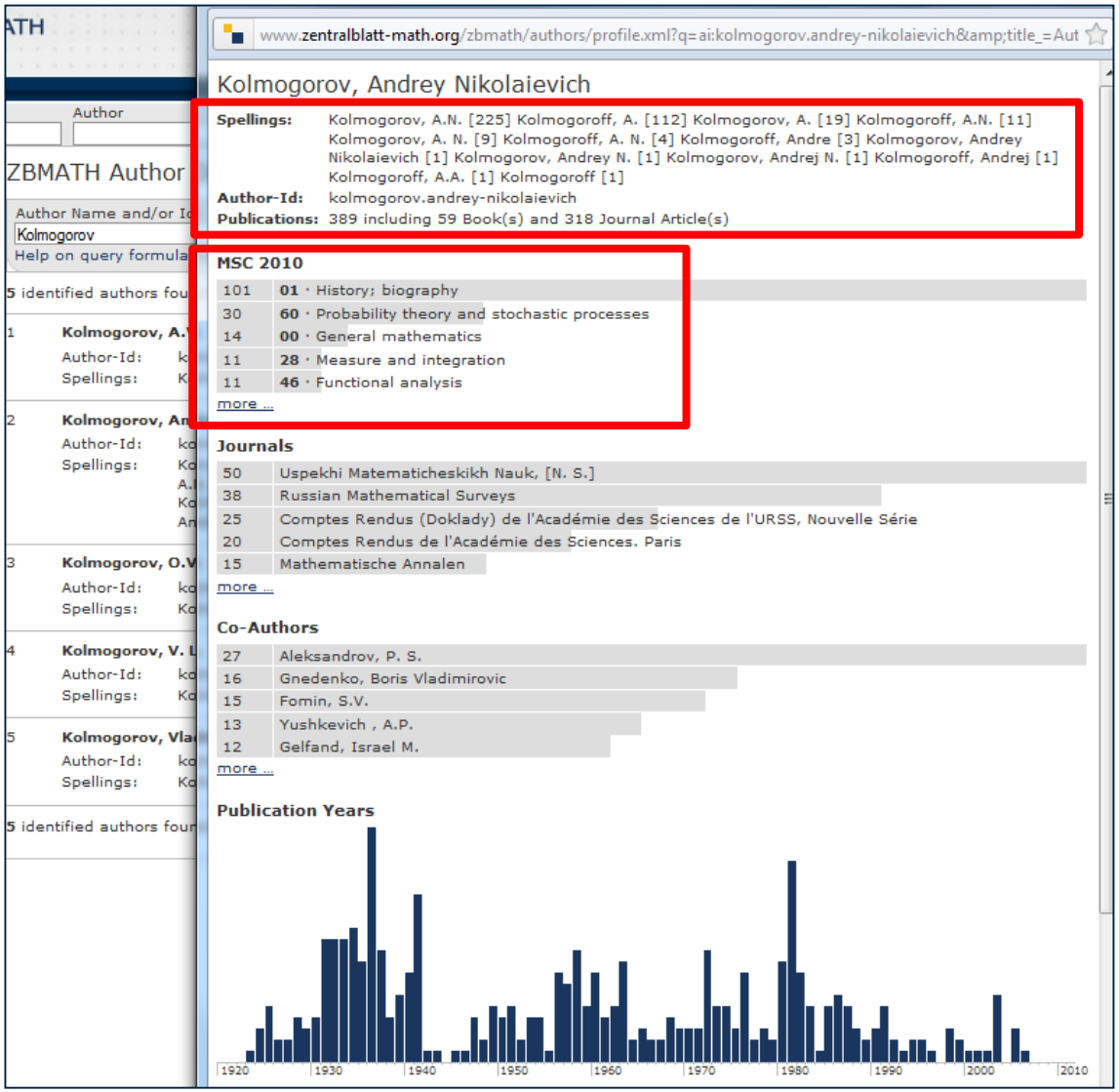

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Author’s details: different spellings of the name and their frequency in citations, the author id, the number of publications and the sort of source

MSC2010 codes classifying the author’s publications sorted by number (5 most frequent, but option to display “more”)

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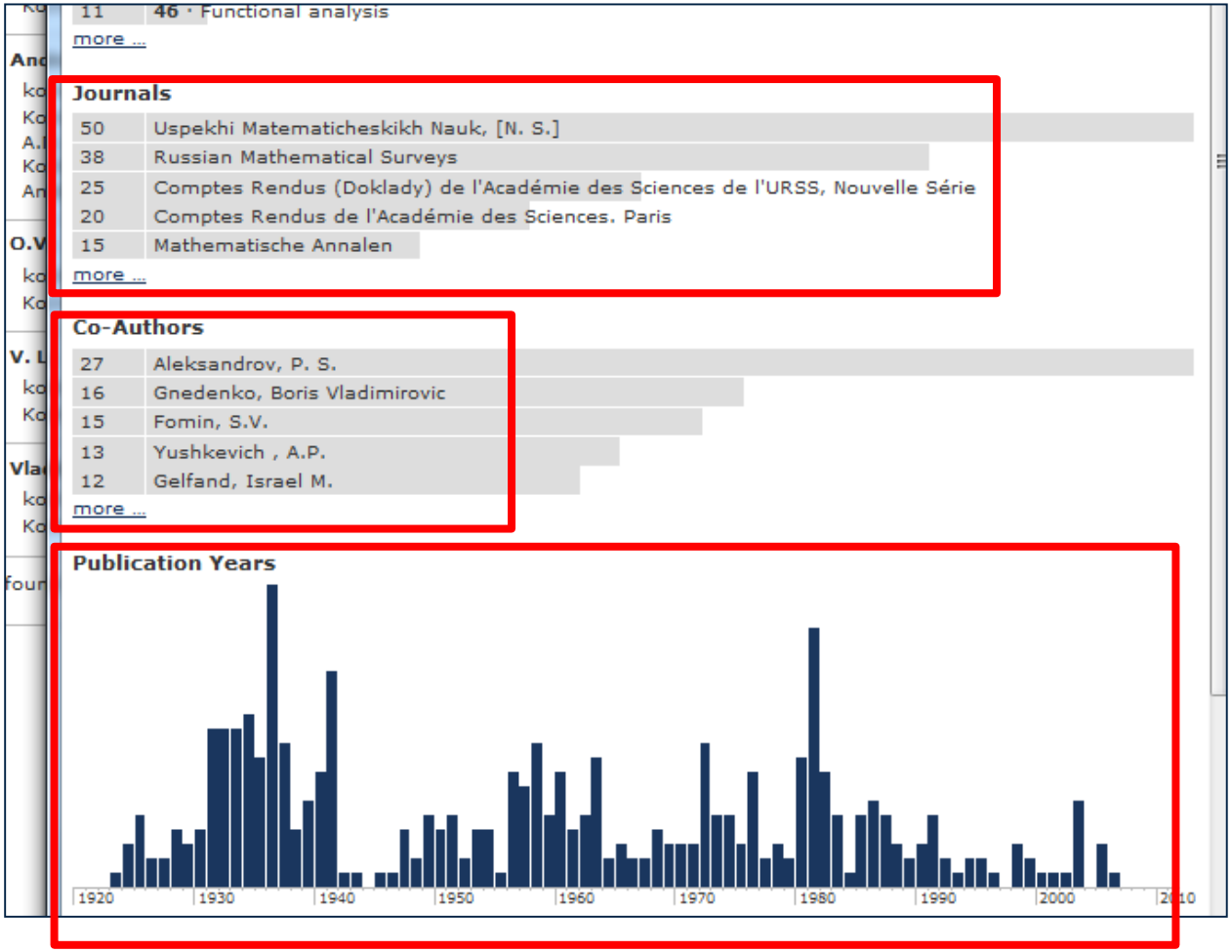
Author Profile (2)



Journals in which the author published sorted by number (5 most frequent, but option to display “more”)

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1 **Invent. Math.**

Title: Inventiones Mathematicae
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Publisher: Springer-Verlag, Berlin
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- **la** language
- **so** source
- **py** publication year
- **dt** document type
- **cc** classification code
- **ut** english keywords
- **br** biographical references
- **ab** review / abstracts
- **rv** reviewer
- **ci** citations

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- **ai** identified author(s); will also be executed when clicking at the name of an identified author
- **ti** title
- **so** source
- **py** publication year
- **cc** classification code
- **rv** reviewer
- **dt** document type
- **an** accession number

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How it is produced

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