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March 2022

Introduction to the database

MathSciNet – Mathematical Reviews

Table of contents

1. General.....	2
1.1. Content.....	2
1.2. Database	2
1.3. Update	2
1.4. Access.....	2
1.5. Homepage	2
1.6. Copyright	3
2. Searching.....	4
2.1. Publications	4
2.2. Authors	5
2.3. Journals.....	8
2.4. Citations.....	10
2.5. Current Journals	12
2.6. Current Publications.....	12
3. Results.....	13
3.1. Results list	13
3.2. Full view of an entry	14
3.3. Further use of results	15
4. Accessing full text	16
5. Using MSC.....	17



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1. General

1.1. Content

[MathSciNet](#) is a bibliographical database, which includes reviews and abstracts. It has been published by the American Mathematical Society since 1940. It covers all areas of pure and applied mathematics and the history of mathematics. Some of the entries date back to the early 19th century because digitised historical mathematical journals are constantly being added. These data sets appear in the database as DML Items (Digital Mathematics Library Items). The journal “Current Mathematical Publications” has also been incorporated into MathSciNet.

1.2. Database

The database contains approximately 4 million bibliographical descriptions of articles from journals, serial publications, and conference proceedings, together with the bibliographical descriptions of monographs. For more than 2.7 million entries there are links to the document in full text. Every year, more than 125,000 new entries edited by a great number of specialists are added to the database and more than 90,000 entries are reviewed. The documents are classified according to the Mathematics Subject Classification (MSC 2020).

1.3. Update

The database is updated daily.

1.4. Access

Access rights are restricted to the network of ETH Zurich (domain ethz.ch). ETH Zurich members also have access off-campus by using proxy.ethz.ch or [VPN](#).

1.5. Homepage

The homepage of the database is shown below:

The screenshot shows the MathSciNet website interface. At the top, there is a navigation bar with links: Clipboard, Home, Preferences, Free Tools, About, Librarians, Reviewers, Terms of Use, and Blog. The MathSciNet logo is on the left, and the ETH-Zentrum logo is on the right. Below the navigation bar, there are three circular markers: α (above Preferences), δ (above Free Tools), and ϵ (above Librarians). The main content area has tabs for Publications, Authors, Journals, and Citations. The Publications tab is active. Below the tabs, there is a search section with a 'Search Terms' label and a circular marker β above it. The search section includes four dropdown menus: Author, Title, MSC Primary, and Anywhere, each followed by a text input field and an 'and' dropdown. To the right of the search section is a 'NEW!' banner for 'Author Profile Personalization'. Below the search section, there are three columns of options: 'Time Frame' (Entire Database, Year, Year Range), 'Publication Type' (All, Books, Journals, Proceedings), and 'Review Format' (PDF, HTML). At the bottom of the search section are 'Search' and 'Clear' buttons. A circular marker γ is placed above the search input fields. At the bottom of the page, there is a footer with 'Facts and Figures: 3,897,346 total publications' and a circular marker ϵ above the 'Help' and 'Contact Us' links.

Notes

- You can set the language of the interface under *Preferences* (English, French, German, Chinese, Japanese, Russian, and Spanish), although only a few of the pages, and hardly any of the texts, have been translated into the various languages (see α).
- The database offers a variety of search options: searches for publications, authors, and journals (see β).
- A statistical analysis of citations is under construction for authors and journals (see γ).
- Under *Free Tools*, you can find some useful features, such as searching for MSC and for the latest literature on a specific topic (see δ).
- You can find helpful information on the database under *Librarians* and *Help* (see ϵ). The contents of the help are context-sensitive.

1.6. Copyright

All the abstracts and reviews provided by MathSciNet are, like any other publication, subject to copyright. Copyright for individual articles is covered by the terms of the journals in which the articles were published.

2. Searching

[MathSciNet](#) offers a variety of search options. Before beginning a search, it is useful to define and limit the topic as closely as possible. Deciding on the right search strategy usually determines the most suitable search option to choose.

2.1. Publications

The database provides a user interface for a general search for publications. This allows the combination of search terms in various fields and allows the search to be refined using different criteria.

The screenshot displays the MathSciNet search interface. At the top, there is a navigation bar with links: Clipboard, Home, Preferences, Free Tools, About, Librarians, Reviewers, Terms of Use, and Blog. The MathSciNet logo (American Mathematical Society) and the ETH-Zentrum logo are also visible. Below the navigation bar, there are tabs for Publications, Authors, Journals, and Citations. The main search area includes a 'Search Terms' section with four dropdown menus: Author, Title, MSC Primary, and Anywhere, each followed by a text input field and a dropdown menu for Boolean operators (currently set to 'and'). To the right of these fields is a 'NEW!' banner for 'Author Profile Personalization'. Below the search terms are three filter sections: 'Time Frame' with radio buttons for 'Entire Database' and 'Year Range' (with a 'Year' dropdown and 'to' field); 'Publication Type' with radio buttons for 'All', 'Books', 'Journals', and 'Proceedings'; and 'Review Format' with radio buttons for 'PDF' and 'HTML'. At the bottom of the search area are 'Search' and 'Clear' buttons. A footer bar contains the text 'Facts and Figures: 3,897,346 total publications' and links for 'Help' and 'Contact Us'.

Notes

- Four of the fields can be linked using the Boolean operators *and*, *or*, and *not*. It should be noted that *and* and *not* are applied before *or*.
- The fields to be searched can be set by using the pull-down menus. The default settings are: Author, Title, MSC Primary or MSC Primary/Secondary, Anywhere.
- Boolean operators can also be used within a field; the term will be interpreted as being within brackets.
- Without the use of Boolean operators two or more keywords are searched as being linked by the Boolean operator *and*.
- Proximity search can be used within a field; $\sim n$, typed after two keywords in quotations marks, means that there can be a maximum of n words between them.

- Right-truncation using the symbol * can be applied. We recommend that the first name should usually be shortened when searching for authors. The symbol * can also be used as a wildcard for any number of characters within a word.
- When English words are entered in a search, they are normally searched in the plural and the singular form, as applicable.
- When a query is analysed, TeX special symbols are replaced by spaces. The use of TeX special symbols is therefore optional.
- Reviews are currently written in English only. Searching with English keywords therefore tends to produce better results.
- The search can be refined by publication date or document type (books, journals, conference proceedings).

Examples

Query: publications by Konrad Osterwalder as author, editor, ...
Enter: field Author or Related: osterwalder, k*

Query: publications by Atiyah and Singer
Enter: field Author: atiyah *and* singer

Query: publications by Donald Knuth with “discrete mathematics” in the title
Enter: field Author: knuth, d*
and field Title: “discrete mathematics”

Query: publications by Beno Eckmann issued after 1999
Enter: field Author: eckmann, b*
Year: > 1999

Query: articles in conference proceedings on Poisson algebras (MSC=17B63) published between 2000 and 2005
Enter: field MSC Primary/Secondary: 17B63
Year Range: 2000-2005
Publication Type: Proceedings

2.2. Authors

MathSciNet maintains a separate database of authors (authors, editors, translators, ...), which allows to identify them unambiguously. Publications by a specific author can be found even if he or she is referred to by different names or where several authors have identical names.

Clipboard Home Preferences Free Tools About Librarians Reviewers Terms of Use Blog

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ETH-Zentrum REMOTE ACCESS

Publications Authors Journals Citations ISSN 2167-5163

Author Name or MR Author ID

Example: Hilbert, D* or 85745

Search

Facts and Figures: 1,045,044 authors indexed Help Contact Us

Notes

- As you type the name of the author you are looking for, possible matches will be suggested.
- If the search produces only one result, the profile of the author is immediately shown.
- If the search produces more than one result, a brief view of the results is shown.
- *Publications* brings up all articles in the database that are linked to the author.
- *Refine Search* allows you to use the name for a publications search; the name can be combined with other terms.
- The author profile provides even more information (see example). The names and topics given are linked to the corresponding publications.
- The information provided is reliable from 1985 onwards. In the case of older publications it is possible that some variants of a name have not been merged.

Example

Query: profile of Eva Bayer-Fluckiger

Enter: bayer e

All name variants are included, and the profile appears immediately.



Bayer-Fluckiger, Eva

MR Author ID: **32925**
 Earliest Indexed Publication: **1979**
 Total Publications: **79**
 Total Related Publications: **3**
 Total Citations: **566**

Published as: Bayer Fluckiger, Eva (1)

- [Publications](#)
- [Related Publications](#)
- [Reviews](#)
- [Refine Search](#)
- [Co-Authors](#)
- [Collaboration Distance](#)
- [Mathematics Genealogy Project](#)
- [Citations](#)

Co-authors (by number of collaborations)

Berhuy, Grégory Bhaskhar, Nivedita Borello, Martino Cerri, Jean-Paul Chaubert, Jérôme Chuard-Koulmann, Pascale Emery, Vincent Fainsilber, Laura First, Uriya A. Hillman, Jonathan A. Houriet, Julien Huruguen, Mathieu Jossen, Peter Kearton, Cherry Lee, Ting-Yu² Lenstra, Hendrik W., Jr. Maciak, Piotr Martinet, Jacques Michel, Françoise Moldovan, Daniel Arnold Monsurrò, Marina Morales, Jorge F. Nebe, Gabriele Oggier, Frédérique E. **Parimala, Raman** Quéguiner-Mathieu, Anne Schoof, René Serre, Jean-Pierre Shapiro, Daniel B. Stoltzfus, Neal W. Suarez Atias, Ivan Taelman, Lenny Tignol, Jean-Pierre Viterbo, Emanuele Wilson, Stephen Mark Johnson

Publications (by number in area)

Associative rings and algebras Field theory and polynomials
 General Group theory and generalizations History and
 biography Information and communication, circuits Manifolds
 and cell complexes Number Theory **Number
 theory**

Publications (by number of citations)

Associative rings and algebras Field theory and polynomials
 Group theory and generalizations Information and
 communication, circuits Manifolds and cell complexes Number
 Theory **Number theory**

2.3. Journals

MathSciNet maintains a separate database of all journals indexed since 1985.

The screenshot shows the MathSciNet website interface. At the top, there is a navigation bar with links: Clipboard, Home, Preferences, Free Tools, About, Librarians, Reviewers, Terms of Use, and Blog. The MathSciNet logo is on the left, and the ETH-Zentrum logo and a Remote Access icon are on the right. Below the navigation bar, there are four tabs: Publications, Authors, Journals (which is selected), and Citations. The ISSN 2167-5163 is displayed on the right. The main content area is titled "Journal" and contains a search input field. Below the input field, it says "Enter a journal abbreviation, journal name, partial name, or an ISSN". There is a "Search" button below the input field. At the bottom of the main content area, there is a footer with the text "Facts and Figures: Over 1,800 current journals; direct links to 2,595,478 original articles" and three links: New Journals, Help, and Contact Us.

Notes

- The search criteria are an abbreviation of the title, words from the title, and the ISSN. A list of current abbreviations can be obtained via *Help* and other abbreviations will also produce hits.
- *Publications Listed* brings up the indexed articles in the journal.
- Where under *Coverage* a journal is shown as “Cover-to-cover”, all the articles in the journal are being indexed in MathSciNet.
- *List All Issues* brings up the indexed issues of the searched journal.
- Under *Citations* you can find a statistical analysis of the citations.

Example

Query: the latest articles from “The Annals of Statistics”
Enter: annals statistics
then: *Publications Listed*, the most recent articles appear at the top

The Annals of Statistics

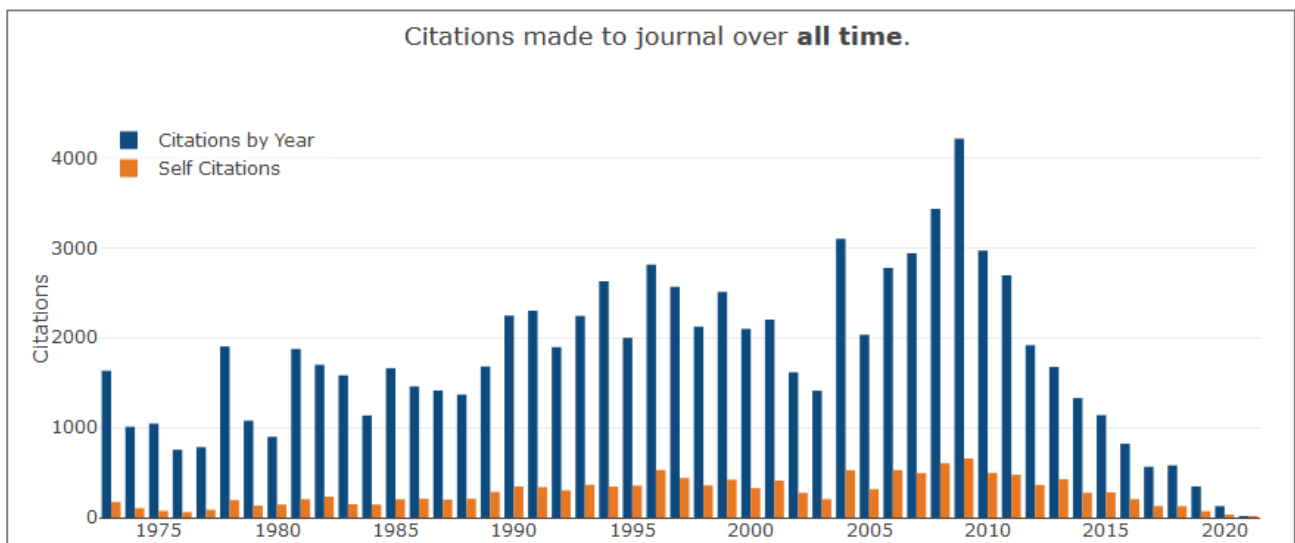
Journal Details	
Abbreviation	Ann. Statist.
Publisher	Inst. Math. Statist.
Websites	projecteuclid.org jstor.org
ISSN (Print)	0090-5364
ISSN (Online)	2168-8966
Frequency	6 issues/vol./yr.
Publications Listed	5.522
Reference Lists	Since 1997
Publications Cited	4.551 (82,4% of publications)
Citations	86.244 from 28.124 publications
Latest Issue	2021, vol. 49, iss. 1
Earliest Issue	1973, vol. 1
Coverage	Cover-to-cover

Recent Issues			
Volume	Issue	Year	
49	1	2021	View
48	6	2020	View
48	5	2020	View

[List All Issues](#)

Concise History		
Title	Start	End
The Annals of Statistics	1973	-

[Journal Title History](#)



2.4. Citations

An analysis of citations is a fairly new development by MathSciNet.



The screenshot shows the MathSciNet website interface. At the top, there is a navigation bar with links: Clipboard, Home, Preferences, Free Tools, About, Librarians, Reviewers, Terms of Use, and Blog. The MathSciNet logo is on the left, and the ETH-Zentrum logo and a Remote Access icon are on the right. Below the navigation bar, there are several tabs: Author Citations (selected), Journal Citations, Search by Subject, Search by Year, and Top 10 Lists. The ISSN 2167-5163 is displayed on the right. The main search area has a text input field labeled "Author Name" with the example "Hilbert, D" and a "Search" button. At the bottom of the search area, there is a status bar that reads "Facts and Figures: 17,194,593 matched citations; 463,306 authors cited" and links for "Help" and "Contact Us".

Author Citations

This search displays an author's ten most-cited publications. It should be noted that this feature is still under construction: only the most recent volumes (usually from 2000 onwards) from a limited list of journals have been evaluated to date. This feature is described in detail in the essay [Understanding the Citation Database](#).

Example

Query: the most frequently cited publications by George Polya
Enter: polya, g

Author Citations for George Pólya

George Pólya is cited 7648 times by 7606 authors
 in the MR Citation Database

Most Cited Publications		
Citations	Publication	
2846	MR0046395 (13,727e) Hardy, G. H.; Littlewood, J. E.; Pólya, G. <i>Inequalities</i> . 2d ed. Cambridge, at the University Press, 1952. xii+324 pp. 27.0X	Book
1021	MR0944909 (89d:26016) Hardy, G. H.; Littlewood, J. E.; Pólya, G. <i>Inequalities</i> . Reprint of the 1952 edition. Cambridge Mathematical Library . Cambridge University Press, Cambridge, 1988. xii+324 pp. ISBN: 0-521-35880-9 26Dxx (01A75)	Book
593	MR0043486 (13,270d) Pólya, G.; Szegő, G. <i>Isoperimetric Inequalities in Mathematical Physics</i> . Annals of Mathematics Studies, no. 27, Princeton University Press, Princeton, N. J., 1951. xvi+279 pp. (Reviewer: M. Brelot) 52.0X	Book
227	MR0271277 (42 #6160) Pólya, Georg; Szegő, Gábor <i>Aufgaben und Lehrsätze aus der Analysis</i> . Band I: Reihen, Integralrechnung, Funktionentheorie. (German) Vierte Auflage. Heidelberger Taschenbücher, Band 73 Springer-Verlag, Berlin-New York 1970 xvi+338 pp. 26.00	Book
177	MR0344042 (49 #8782) Pólya, G.; Szegő, G. <i>Problems and theorems in analysis</i> . Vol. I: Series, integral calculus, theory of functions. Translated from the German by D. Aeppli Die Grundlehren der mathematischen Wissenschaften, Band 193. Springer-Verlag, New York-Berlin, 1972. xix+389 pp. 00A05	Book


Journal Citations

MathSciNet also allows citations of articles in a specific journal to be analysed. This feature is described in detail in the essay [Understanding the Citation Database](#).



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ETH-Zentrum 

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

ISSN 2167-5163

Journal

Enter a journal abbreviation, journal name, partial name, or an ISSN

Citing Year

2019 ▾

Search

Facts and Figures: 17,194,593 matched citations; 4,147 journals cited

[Help](#) | [Contact Us](#)

Example

Query: How often was “The Annals of Statistics” cited in 2020?
Enter: annals statistics
Citing Year: 2020

2.5. Current Journals

The most recent indexed journals can be searched using the *Free Tools*. All you have to enter here is the time frame you want, e.g. “last week”.

2.6. Current Publications

The latest literature on a specific topic can be found using the *Free Tools*. Access is via MSC. You can search for the latest books, journal articles, or conference proceedings. You can also filter your search by indexed or reviewed documents:

The screenshot shows the 'Current Publications' search interface on the MathSciNet website. At the top, there is a navigation bar with links: Clipboard, Home, Preferences, Free Tools, About, Librarians, Reviewers, Terms of Use, and Blog. The MathSciNet logo is on the left, and 'ETH-Zentrum' and 'REMOTE ACCESS' are on the right. Below the navigation bar, there are tabs for 'Search MSC', 'Collaboration Distance', 'Current Journals', and 'Current Publications'. The 'Current Publications' tab is active. The main search area has a 'Time Frame' dropdown set to 'This month', a 'Classification' dropdown set to 'All Classifications', and a text input field for entering a 2-, 3-, or 5-digit classification. Below this, there are radio buttons for 'Publication Type' (All, Books, Journals, Proceedings) and 'Status' (Indexed, Reviewed). At the bottom of the search area are 'Search' and 'Clear' buttons. The footer of the search area says 'Free Tool' and 'Help | Contact Us'.

Examples

Query: books on the history of mathematics (MSC 01) reviewed in the current month
Enter: This month, Books, Reviewed, 01 (in the top field, under Classification)

Query: articles on “graph coloring” (MSC 05C15) indexed in the current month
Enter: This month, Journals, Indexed, 05C15 (in the bottom field)

3. Results

3.1. Results list

The result of a search for publications is a list of documents that meet the search criteria. The filtering function shown on the left-hand side provides you with a refinement of the list. It is also possible to search within the results. Clicking on many of the elements will lead to additional information, e.g. to other articles by the same author, to the profile of the journal, or to the full text of the article.

The screenshot shows the MathSciNet search results interface. At the top, there are navigation links: Clipboard, Home, Preferences, Free Tools, Help, Contact Us, Terms of Use, and Blog. The American Mathematical Society logo and 'MATHSCINET MATHEMATICAL REVIEWS' are on the left. The search results are for 'Author=(Thévenaz, Jacques)'. The page shows 59 matches, sorted by 'Newest'. The first three results are:

- MR4162291** (Pending) by Bouc, Serge; Thévenaz, Jacques. The algebra of Boolean matrices, correspondence functors, and simplicity. *J. Comb. Algebra* 4 (2020), no. 3, 215–267. MSC: 06B15 (16D90 16G30 18A25 18B05 18B10 18B35). Callout α points to the search criteria, β to the MR number, and λ to the author name.
- MR4102137** (Pending) by Bouc, Serge; Thévenaz, Jacques. Tensor product of correspondence functors. *J. Algebra* 558 (2020), 146–175. MSC: 06B15 (18B05 18B35 18E05). Callout δ points to the journal title.
- MR3943348** (Reviewed) by Lassueur, Caroline; Thévenaz, Jacques. On the lifting of the Dade group. *J. Group Theory* 22 (2019), no. 3, 441–451. (Reviewer: Michael Geline) MSC: 20C20. Callout γ points to the author name.

The third result also has callouts λ , φ , ε , and ϵ pointing to the MR number, journal title, author name, and 'Article' link, respectively. Each result has an 'ETH Get it' button.


Notes

- The brief view gives the bibliographical data author, article title, source, and the MSC codes with additional links.
- The search criteria are shown above the results list (see α).
- The hits are displayed chronologically, with the most recent titles appearing at the top. They can also be displayed with the oldest titles appearing at the top or according to the number of citations or authors.
- Clicking on the MR number will take you to the full view of the hit (see β).
- You can find other publications by the same author by clicking on the name (see γ).
- Clicking on the journal title will take you to the journal's entry in the database. The link to the specific issue of the journal will take you to its articles (see δ).
- *Article* provides a direct link to a full-text version of the article (where available, see ϵ).

- The button **ETH Get it** takes you to the ETH Library’s collection; use it if the *Article* link is not active (see ϵ).
- The links via the MSC codes allow you to search for other documents in the database on the same topics (see ϕ).
- By clicking on *Clipboard* under the entry you can save hits in the *Clipboard* and use them later (see λ).
- Selected hits can be displayed via *Retrieve Marked* in different formats in brief or full view.


3.2. Full view of an entry

In addition to the links discussed above under “Results list”, the full view gives extra information and links.



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ETH-Zentrum 

[Previous](#) [Up](#) [Next](#)

Select alternative format β

Publications results for "Author=(Thévenaz, Jacques)"

MR3943348 Reviewed γ

Lassueur, Caroline (D-TUKS); Thévenaz, Jacques (CH-LSNP-SM)

On the lifting of the Dade group. (English summary)

J. Group Theory **22** (2019), no. 3, 441–451.

20C20

[Review PDF](#) | [Clipboard](#) | [Journal](#) | [Article](#) | [Make Link](#)

α

ε

δ

Citations
From References: 1
From Reviews: 0

ETH Get it

If G is a finite group and R is a commutative ring, let $D_R(G)$ denote the Dade group of equivalence classes of capped endopermutation modules for the group ring RG . If p is a prime and \mathcal{O} is a complete discrete valuation ring of characteristic zero, residue characteristic $p > 0$, and uniformizer π , one has a natural group homomorphism

$$D_{\mathcal{O}}(G) \rightarrow D_k(G)$$

given by sending the equivalence class of a module M to that of $M/\pi M$. When G is a p -group, and \mathcal{O} contains a primitive p^e th root of unity where p^e is the exponent of G , this homomorphism is known to be surjective with kernel consisting of the equivalence classes of endopermutation $\mathcal{O}G$ -modules with \mathcal{O} -rank 1.

The paper under review constructs a splitting for this surjection.

Reviewed by [Michael Geline](#)

References

1. R. Boltje, R. Kessar and M. Linckelmann, On Picard groups of blocks of finite groups, preprint (2018), <https://arxiv.org/abs/1805.08902>.
2. S. Bouc, The Dade group of a p -group, *Invent. Math.* **164** (2006), no. 1, 189–231. [MR2207787](#)
3. J. F. Carlson and J. Thévenaz, Torsion endo-trivial modules, *Algebr. Represent. Theory* **3** (2000), no 4, 303–335. [MR1808129](#)
4. J. F. Carlson and J. Thévenaz, The classification of torsion endo-trivial modules, *Ann. of Math. (2)* **162** (2005), no. 2, 823–883. [MR2183283](#)
5. D. Craven, C. W. Eaton, R. Kessar and M. Linckelmann, The structure of blocks with a Klein four defect group, *Math. Z.* **268** (2011), no. 1–2, 441–476. [MR2805443](#)
6. E. Dade, Endo-permutation modules over p -groups. II, *Ann. of Math. (2)* **108** (1978), 317–346. [MR0506990](#)

Notes

- Starting from a hit in full view, you can navigate to the next or previous hit in the list without having to go back to the results list (see α).
- The search criteria are displayed above the full view (see β).
- Author details are expanded by the addition of details of his institution (see γ).
- This view focuses on the review or abstract of the publication. Documents cited in the article are given under *References* (see δ).
- Clicking on *From References* will take you to documents that cite the article (see ϵ).
- Clicking on *From Reviews* will take you to documents whose reviews or abstracts cite the article (see ϵ).

3.3. Further use of results

MathSciNet does not offer useful features such as editing or saving searches you have carried out or setting up alerts. Two helpful applications for working with your results are the following:

Make Link

Available from the full view, *Make Link* (see α) allows you to define a permanent link to a MathSciNet entry and to cite it in a document.

Clipboard

The *Clipboard* (see β) is accessible from any screen. It is only shown if it contains items, and it allows you to collect pertinent entries during a search. These can then be displayed in various formats. If the entries are ready for export, the *Clipboard* can be opened by clicking on it. You can then specify the format (e.g. BibTex). Clicking on *SaveClip* leads to the entries in the chosen format. The result can be saved in text form and exported to a literature management program (e.g. RefWorks or EndNote).

Clipboard | Home | Preferences | Free Tools | Help | Contact Us | Terms of Use | Blog

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Previous Up Next

Select alternative format

Publications results for "Author=(Thévenaz, Jacques)"

MR3943348 Reviewed
Lassueur, Caroline (D-TUKS); Thévenaz, Jacques (CH-LSNP-SM)
On the lifting of the Dade group. (English summary)
J. Group Theory 22 (2019), no. 3, 441–451.
20C20
[Review PDF](#) | [Clipboard](#) | [Journal](#) | [Article](#) | [Make Link](#)

Citations
From References: 1
From Reviews: 0

ETH Get it

If G is a finite group and R is a commutative ring, let $D_R(G)$ denote the Dade group of equivalence classes of capped endopermutation modules for the group ring RG . If p is a prime and \mathcal{O} is a complete discrete valuation ring of characteristic

4. Accessing full text

[MathSciNet](#) is a bibliographical database that contains the full texts of reviews and abstracts, but not of individual articles. A most welcome development of MathSciNet is the ability to link articles to outside collections of full texts. Links to articles in the “Annals of Mathematics” have gradually been expanded, initially with full texts from the “Transactions of the American Mathematical Society” and subsequently with journals on mathematics and its applications that have been digitised as part of the various digitisation projects around the world characterized as the World Digital Mathematics Library (WDML). The long-term objective is to cover all digitised journals published before 1940.

There are two options for accessing full texts from either a results list or from full view. *Article* gives an initial link to an article. If this link is not available, you can use the button ETH Get it. This function takes you to the full text if the ETH Library has licensed the journal online. If the journal is not available online, the availability of a printed version can be checked in [ETH Library @ swisscovery](#). If it is not possible to order the publication itself, or a copy, online, it can be obtained through the [interlibrary loan service](#).

5. Using MSC

The Mathematics Subject Classification is maintained jointly by the editors of [MathSciNet](#) and [zbMATH](#) and is constantly being developed. This classification system is very widely used, and the version currently in use is MSC 2020, which is made up of 63 main classes and more than 6,000 sub-classes.

The content of the documents indexed in MathSciNet is described by MSC 2020 codes. The use of MSC is best for a precise thematic search and has the great advantage that the codes do not depend on the language. A search can be started with a keyword search in order to find the appropriate classes by following the example of appropriate entries. The search can then be continued in a structured way with the help of the codes found and by combining them with other terms. It is also possible to carry out a more comprehensive search by entering only the first two numbers of the code and then right-truncating with *.


The classification system differentiates between primary and secondary classification, depending on whether a topic is taken to be the main topic or not. A search for publications can thus be carried out in the MSC Primary or MSC Primary/Secondary fields.

MSC 2020 can be consulted directly from *Free Tools* on the home page of MathSciNet. You can navigate through the hierarchy of the system as well as search for a term using a keyword search:

The screenshot shows the 'Free Tools' section of the MathSciNet website. At the top, there is a navigation bar with links: Clipboard, Home, Preferences, Free Tools (highlighted), About, Librarians, Reviewers, Terms of Use, and Blog. Below this is the MathSciNet logo (American Mathematical Society) and the ETH-Zentrum logo with a 'REMOTE ACCESS' icon. The main content area has a header with 'Search MSC' (highlighted) and other tabs: Collaboration Distance, Current Journals, and Current Publications. The ISSN 2167-5163 is displayed on the right. The search interface includes a 'Classification' section with a dropdown menu labeled 'Select a Mathematics Subject Classification' and the instruction 'Select a 2-digit classification'. Below this is an 'OR Search Classifications' section with a text input field and the instruction 'Enter a keyword or phrase or a 2-, 3-, or 5-digit classification'. There are 'Search' and 'Clear' buttons. At the bottom, it says 'Free Tool' on the left and 'Help | Contact Us' on the right.


Example

Query: classification code for “Diophantine equations”
Enter: type diophantine equations in the bottom field



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MSC results for "diophantine equations"

- 11** (1980-now) Number theory
 - 11D** (1980-now) Diophantine equations [See also [11Gxx](#), [14Gxx](#)]
 - 11D04** (1980-now) Linear Diophantine equations
 - 11D07** (2010-now) The Frobenius problem
 - 11D09** (1980-now) Quadratic and bilinear Diophantine equations
 - 11D25** (1980-now) Cubic and quartic Diophantine equations
 - 11D41** (1980-now) Higher degree equations; Fermat's equation
 - 11D45** (2000-now) Counting solutions of Diophantine equations
 - 11D57** (1980-now) Multiplicative and norm form equations
 - 11D59** (2000-now) Thue-Mahler equations
 - 11D61** (1980-now) Exponential Diophantine equations
 - 11D68** (1980-now) Rational numbers as sums of fractions
 - 11D72** (1980-now) Diophantine equations in many variables [See also [11P55](#)]
 - 11D75** (1980-now) Diophantine inequalities [See also [11J25](#)]
 - 11D79** (1980-now) Congruences in many variables
 - 11D85** (1980-now) Representation problems [See also [11P55](#)]
 - 11D88** (1980-now) p -adic and power series fields
 - 11D99** (1980-now) None of the above, but in this section
 - 11Y** (1980-now) Computational number theory {For software etc., see~[11-04](#)}
 - 11Y50** (1980-now) Computer solution of Diophantine equations

An important use of MSC which we have already mentioned is in searching for the latest literature on a particular topic (see 2.6.).

The complete MSC 2020 can be downloaded as a [PDF](#).