

News from zbMATH - more than new clothes

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The reviewing and abstracting service zbMATH (former Zentralblatt MATH), which is edited by FIZ Karlsruhe, the European Mathematical Society (EMS) and the Heidelberg Academy of Sciences and Humanities, offers at www.zbmath.org a new user interface with improved functionalities and a user friendly design.

The new website takes advantage of many opportunities offered by modern browsers, guiding the users quickly to the required information. The search is organised in different tabs -- documents, authors, journals, classification, software -- allowing to focus on a specific type of information. Our goal was to structure the information in an easily and intuitively comprehensible manner: if you are interested in author profiles, then you use the author tab; whenever you click on an author's name, her or his author profile page is presented; a journal title links to the corresponding journal profile; and clicking on the number of documents a certain person has published in a certain mathematical area brings you to exactly those documents in our database, where you can read reviews or abstracts of the articles and access, in most cases, their full texts.

The main novelty of the user interface is the filter function which helps to refine the original search by presenting the authors, journals, MSC codes and publication years according to their frequency. Furthermore, the filter allows to formulate search queries that go much further beyond the evaluation of a single publication. For instance, one can quantitatively analyse the development in a specific field or ask for the most prolific authors in certain journals.

The filter also allows us to better interlink the author profiles with the rest of the database. For every author, all co-authors, mathematical areas and journals are displayed according to their frequency, and direct links to the selected publications as well as to the corresponding author and journal profiles or the research fields are available. A timeline of all publications are displayed as a clickable diagram, visualising the author's scientific output over the years.

Journals indexed in zbMATH are presented in a similar fashion. Besides the obvious advantage for librarians, this information can be valuable for everyone who wants to evaluate the changes in the scientific journal landscape. For instance, PhD students or young researchers might profit from consulting a journal profile in zbMATH in order to decide whether her or his publication would be well presented there.

As a new facet, the database swMATH, which provides information on mathematical software packages, is now included in zbMATH and directly linked to relevant publications. A prototype for semantic formula search is another result of our research and development projects, which will also be included soon. Further technical improvements are already on the way. For example, users will soon be able to set different individual preferences, such as the display format (e.g. LaTeX, MathML, MathJax, PDF), the number of presented results or the fuzziness of the search.

It is planned to unlock the new ZBMATH surface in the fall for a limited time worldwide. Until then, everyone has, as usual, free access to the first three matches of a search query.

We hope that you enjoy the new website and we welcome any feedback that helps us to improve our service to the mathematical community.

Found 290 documents (Results 1–100)

Miyamoto, Masahiko

A \mathbb{Z}_3 -orbifold theory of lattice vertex operator algebra and \mathbb{Z}_3 -orbifold constructions. (English) [Zbl06192933](#)

Iohara, Kenji (ed.) et al., Symmetries, integrable systems and representations. Proceedings of the conference on infinite analysis: frontier of integrability, Tokyo, Japan, July 25–29, 2011 and the conference on symmetries, integrable systems and representations, Lyon, France, December 13–16, 2011. London: Springer (ISBN 978-1-4471-4862-3/hbk; 978-1-4471-4863-0/ebook). Springer Proceedings in Mathematics & Statistics 40, 319-344 (2013).

doi:10.1007/978-1-4471-4863-0_13

Ganter, Nora

Power operations in orbifold Tate K -theory. (English) [Zbl06189101](#)

Homology Homotopy Appl. 15, No. 1, 313-342 (2013).

MSC: 19L99

Norton, Simon P.; Wilson, Robert A.

A correction to the 41-structure of the Monster, a construction of a new maximal subgroup $L_2(41)$ and a new Moonshine phenomenon. (English) [Zbl06188932](#)

J. Lond. Math. Soc., II. Ser. 87, No. 3, 943-962 (2013).

MSC: 20D08 20E28

Miezaki, Tsuyoshi

Conformal designs and D.H. Lehmer's conjecture. (English) [Zbl06186992](#)

J. Algebra 374, 59-65 (2013).

MSC: 17B69 11F03 05E99

Hartmann, Heinrich

Period- and mirror-maps for the quartic $K3$. (English) [Zbl06179660](#)

Manuscr. Math. 141, No. 3-4, 391-422 (2013).

MSC: 14J28 14D07 14J33

Filter results by ...

Authors

- [Mason, Geoffrey](#) (22)
- [Lam, Ching Hung](#) (19)
- [Dong, Chongying](#) (17)
- [Lepowsky, James](#) (13)
- [Tuite, Michael P.](#) (12)

Journals

- [Journal of Algebra](#) (17)
- [Communications in Mathematical Physics](#) (10)
- [IMRN. International Mathematics Research Notices](#) (7)
- [Duke Mathematical Journal](#) (7)
- [Communications in Algebra](#) (7)

Classification

- [17-XX](#) (171)
- [20-XX](#) (155)
- [11-XX](#) (144)
- [81-XX](#) (51)
- [14-XX](#) (25)

Publication Year

- [2013](#) (6)
- [2012](#) (10)
- [2011](#) (7)
- [2010](#) (22)
- [2009](#) (7)
- [2008](#) (8)
- [2007](#) (15)
- [2006](#) (10)
- [2005](#) (3)
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- [2003](#) (11)
- [2002](#) (10)