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Mathematical Reviews on the Web

www.ams.org/mathscinet

The screenshot shows the MathSciNet homepage. At the top left is the logo and tagline. A navigation menu on the left includes links for Search, Full Search, Basic Search, Authors, Journals, MSC, Browse MathSciNet, Current Journals, Current Books, By MSC, and Clipboard. The main content area features a 'Quick Search' box with a language dropdown set to 'English', a search input field containing 'Providence, RI USA', and a dropdown menu set to 'Author/Related'. Below the search box is a 'Facts and Figures' section with statistics. The page is divided into two columns of content: 'What's New' with a list of enhancements, and 'About MathSciNet' with a list of links. A 'Reference Lists survey' button is visible in the top right of the search area.

New and Recent Enhancements Include ...

- New sort order
- Multilingual interfaces
- Reference lists expanded
- OpenURL services
- Expanded coverage

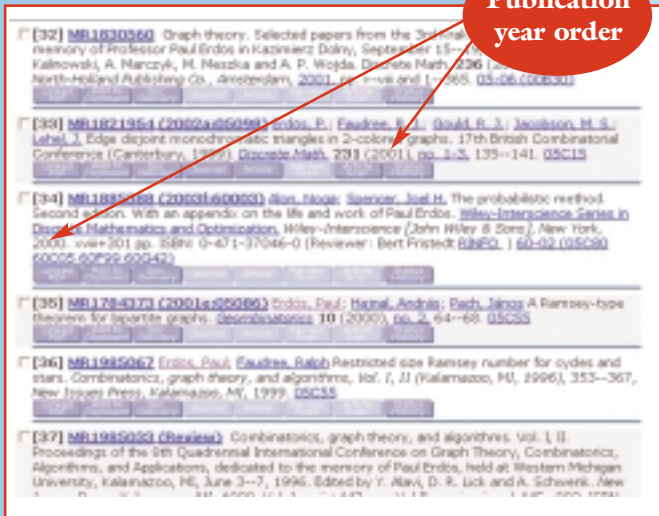


For more information on **MathSciNet** features and functionality visit www.ams.org/msnhtml/guidebook.pdf



NEW SORT ORDER

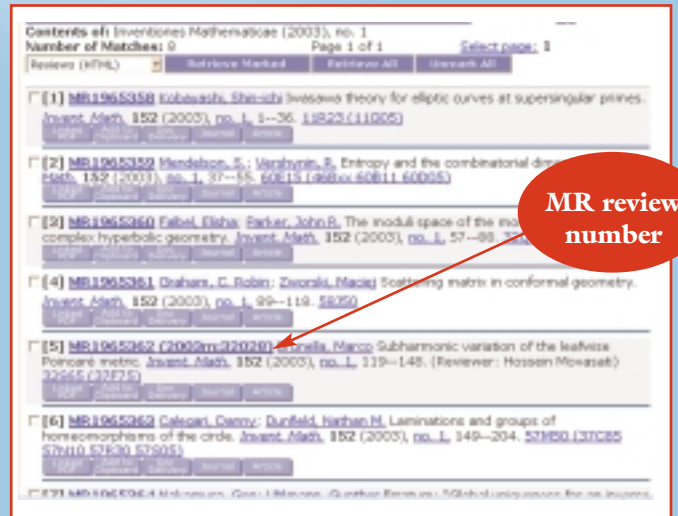
Lists of headlines are now sorted in a more natural order, depending on context. Most lists are now sorted in reverse order of publication year. Journal issue lists are sorted in table of contents order.



Publication year order

MR NUMBERS

The seven-digit accession number now takes greater prominence in displays, preceded with "MR." Where appropriate, it is displayed with the review number used in paper *Mathematical Reviews* in parentheses.



MR review number

MULTILINGUAL INTERFACES

All the search screens and the home page are available in Chinese, French, German, and Spanish, as well as English.



Accented characters

ACCENTED CHARACTERS

Input in all search fields can now include ISO Latin character encoding of accented characters, for example, Poincaré.

REFERENCE LISTS EXPANDED

Reference lists from the original paper are available for recent papers from selected journals. The list of selected journals has been expanded to include almost 100 titles. Users can navigate smoothly from an item in **MathSciNet** to reviews of items referenced in the original article, and in many cases, to the referenced articles themselves. Users may choose whether or not to display and print reference lists.

View reference citations

MR1839289 (2002g:53158)
 Li, An-Min(PRC-SUN); Ruan, Yongbin(1-WI)
 Symplectic surgery and Gromov-Witten invariants of Calabi-Yau 3-folds.
Invent. Math. 145 (2001), no. 1, 151-218.
 53D45 (14D32 14N35 32Q25 32Q65)

References: 57 [-] Reference Citations: 11 Review Citations: 4

This very interesting paper uses a relative version of Gromov-Witten invariants to study the behaviour of quantum cohomology of Calabi-Yau 3-folds with respect to flops and small transitions.

[References]

To original article

Original reference lists link to MathSciNet items

MR1467172 (99d:14011)
 Li, Jun(1-SF); Tian, Gang(1-MIT)
 Virtual moduli cycles and Gromov-Witten invariants of algebraic varieties.
J. Amer. Math. Soc. 11 (1998), no. 1, 119-174.
 14D20 (14D15 14N10)

References: 41 [-] Reference Citations: 42 Review Citations: 13

FEATURED REVIEW.

After the idea of mirror symmetry was born in the physical context of string theory, the computations of P. Candelas et al. [ref[Nuclear Phys. B 359 (1991), no. 1, 21-74; MR_93b:32029] suggested that a

[References]

14. W. Fulton, *Intersection theory*, *Ergebnisse der Math. und ihrer Grenzgebiete 3. Folge Band 2*, 1984. MR0732620 (85k:14004)

To original article

MR0732620 (85k:14004)
 Fulton, William(1-BRN)
 Intersection theory.
Ergebnisse der Mathematik und ihrer Grenzgebiete (3) [Results in Mathematics and Related Areas (3)] 2.
 Springer-Verlag, Berlin, 1984. xi+470 pp. \$39.00. ISBN 3-540-12176-5
 14C17 (14-02 14C40)

References: 0 Reference Citations: 264 Review Citations: 38

In the development of algebraic geometry, enumerative problems have always played a decisive role. For more than 200 years, the elaboration, interpretation, and application of an appropriate

[226] MR1488349 (99a:14034) Morisaki, Atsushi Relative Bogomolov's inequality and the cone of positive divisors on the moduli space of stable curves. *J. Amer. Math. Soc.* 11 (1998), no. 3, 569-600. (Reviewer: Montserrat Teixidor i Bigas) 14H10 (14C20 14G40)

[227] MR1467172 (99d:14011) Li, Jun; Tian, Gang Virtual moduli cycles and Gromov-Witten invariants of algebraic varieties. *J. Amer. Math. Soc.* 11 (1998), no. 1, 119-174. (Reviewer: Ralph Martin Kaufmann) 14D20 (14D15 14N10)

[228] MR1460391 (98d:14010) Anault, Hélène; Kahn, Bruno; Levine, Marc; Viehweg, Eckart The Arason invariant and mod 2 algebraic cycles. *J. Amer. Math. Soc.* 11 (1998), no. 1, 73-118. (Reviewer: Burt Totaro) 14C25 (11E72 14C35)

JOURNAL
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 AMERICAN MATHEMATICAL SOCIETY
 ISSN 1088-6834 (e) ISSN 0894-0347 (p)

Table of contents
 Recently posted articles | Most recent issue | Previous issue | Next issue | All issues

Virtual moduli cycles and Gromov-Witten invariants of algebraic varieties

Author(s): Jun Li, Gang Tian.
 Journal: *J. Amer. Math. Soc.* 11 (1998), 119-174.
 MSC (1991): Primary 14D20
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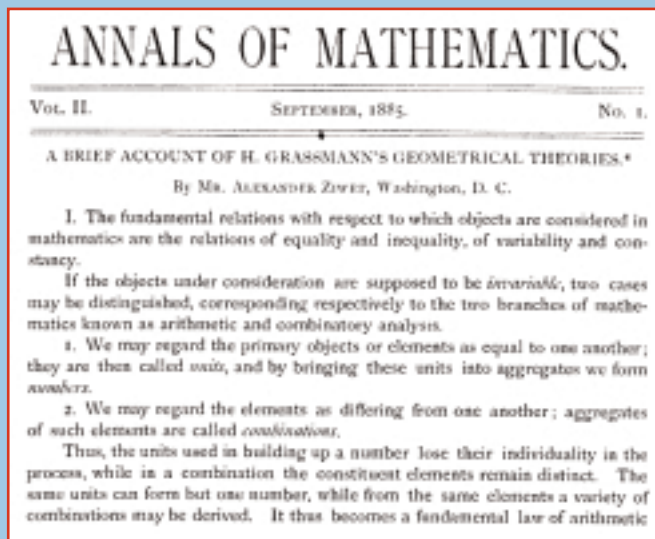
MathSciNet continues to be at the forefront of linking activity by incorporating OpenURL services. OpenURL makes it possible for libraries to restructure electronic access to their collection of published mathematics items.

DATABASE EXPANSION ITEMS

A collection of items available in **MathSciNet** called Database Expansion Items, expands the scope of coverage in the MR Database. Beginning in 2004, items in applied computer science will be added with this coverage, joining the applied statistics items already being added. The items contain full author identification, and journal and original item linking when available.

LINKS TO DIGITIZED MATHEMATICS

The coverage of the *Annals of Mathematics* in the Mathematical Reviews Database has been extended back to the journal's founding (as was done earlier for the *Transactions of the American Mathematical Society*). The **MathSciNet** entry for each *Annals* paper from 1884 to 1997 is linked to the original on JSTOR. The long-term goal is to complete the coverage of all digitized mathematics journals published before 1940, with links to the original.



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For general information about the MR Database:
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