

The University of Manchester Library Content Development Policy Mathematics

Monday, 30 April 2012

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Introduction

This document presents the Content Development Policy for the School of Mathematics. It includes a description of the Library's existing collections and an outline of current collecting areas.

Set within the context provided by an overall Content Development Policy and a related Collection Management Policy, its purpose is to ensure that the selection of resources - books, journals, and other kinds of material – whether print, electronic or other format, reflect the teaching and research priorities of the School and provide best value in both financial and academic terms.

Collection evaluation

The Library has substantial collections in all fields of mathematics, and includes books and journals, in print and digital formats. Pure mathematics, statistics and probability are classified in the Dewey sequence between 510 and 519.99, but applied mathematics volumes are usually shelved elsewhere with their application areas.

The principal collection of 510-519.99 printed books, including all reading list items, and amounting to over 13000 items is kept on Blue 2 in the Main Library. A significant collection of over 6000 items is also housed in the Joule Library.

These figures do not include the substantial number of mathematics e-books which are available through the Library catalogue. Although it has not been possible to provide an accurate count the number is estimated to be between 3000 and 4000.

Appendix 1 provides an overview of the mathematics bookstock by classmark, date of publication, and location.

Appendix 2 lists the books purchased from the Mathematics bookfund during the 2008-09 financial year, excluding items purchased as part of other subscriptions.

Appendix 3 lists current journal subscriptions in the area of mathematics. Because of the difficulties in deciding on what constitutes a mathematics journal, it is not necessarily a complete list. However all journal holdings and subscriptions are listed in the Library catalogue, and all subscriptions to electronic journals are listed in its E-Journals A-Z listing.

Appendix 4 lists other relevant subscriptions to bibliographic databases and book collections in the area.

In addition to the mathematics stock located on its open shelves, a number of rare mathematical texts are held in Special Collections, including early printed editions of Euclid and Pythagorus, as well as first editions of Newton's *Philosophiae Naturalis Principia Mathematica* (1687), *Opticks* (1704) and *The Method of Fluxions and Infinite Series* (1736). Items of local significance held in Special Collections include a number of notebooks compiled by Horace Lamb while the National Archive for the History of Computing holds some Alan Turing papers.

Bookfund and resource allocations

Bookfunds are allocated in June/July each year for the following financial year (August – July). This bookfund is to provide for all non-subscription library materials including printed textbooks and research monographs, electronic books, and any other one-off purchase requirements.

Journals and other subscription items are purchased from a separate fund which at present accounts for over 85% of the cost of all purchases.

Collection areas

To support the School's scholarly and research activities the Library will acquire material published in the areas listed below.

Applied Mathematics:

Combustion Theory

Dynamical Systems and Analysis

Fluid Dynamics

Granular Materials

Inverse Problems

Mathematical Biology

Mathematical Finance

Numerical Analysis

Scientific Computing

Waves

Probability and Statistics

Actuarial Science

Bacterial Genomics

Biostatistics

Design of Experiments

Distribution Theory and Extreme Value Theory

Epidemic Models

Mathematical Finance

Nonlinear and Non-stationary Time Series Models

Nonparametric Smoothing Methodology

Spectral Analysis of Time Series and Random Fields

Stochastic Analysis

Stochastic Processes

Stochastic Calculus

Time Series Analysis and Scientific Computing

Pure Mathematics

Lie theory

Group Theory

Graph Theory

Homological Algebra

Homotopy Theory

Combinatorics

Invariant Theory
Semigroup Theory
Computational Algebra
Analysis and Noncommutative Geometry
Ergodic Theory
Iterated Function Systems
Coupled Dynamical Systems
Bifurcation Theory
Hamiltonian Mechanics
Geometry of Differential Equations and Integrable Systems
Symmetry in Dynamical Systems
Arithmetic Dynamics,
Communications and Signal Processing
Stochastic Dynamical Systems
Applications of Dynamical Systems to Biological and Social Systems
Algebraic Geometry
Algebraic and Differential Topology
Differential Geometry
Geometry
Mathematical Physics
Algebraic K- theory
Arithmetic Aspects of Representation Theory
Quadratic and Hermitian Forms,
Geometric Distribution of Ideals in Number Fields,
Primes
Model Theory,
Uncertainty Reasoning,
Set Theory - hyperset theory, generalised set theory, constructive set theory

Document Supply Service and Inter-Library Loans

Although the Library will try to accommodate all requests for purchase, books which lie outside the areas listed above or are out of print can be obtained on loan from another library through the Document Supply Service. Such books are usually borrowable for up to 6 weeks at a time. Journal articles and other material not available from within the Library's collections can also be obtained through this service.

Teaching and Learning

The Library will support all taught course modules.

Multiple copies and / or electronic copies of texts will be purchased or subscribed to as appropriate. Subject to copyright restrictions the Library will digitise materials, for instance book chapters, or journal articles not otherwise available electronically, if required for taught course modules.

Reading lists and estimated student numbers should be sent to the Faculty Team Librarian by July 31 and November 30 each year so any new material can be purchased and processed in time for the forthcoming semester.

Reading lists will be added to the Library's reading list system, *Link2Lists* which provides links to catalogue entries and directly to electronic texts where they are available. Course modules within the Blackboard VLE can link to *Link2Lists*.

Reading list texts can be 7-day loan or put into the High Demand Collection from where they can be borrowed for shorter periods, but past experience has shown that normal loan (28 days for undergraduates) is the preferred and most effective option for Mathematics texts.

Digitisation

Subject to copyright restrictions the Library will digitise material according to its Digitisation Policy. Priorities include reading list items – book chapters or journal papers – and items from Special Collections.

Manchester e-Scholar

The University's institutional repository, Manchester eScholar, manages and disseminates the intellectual outputs of the university. Since the beginning of 2010 all accepted PhD theses have been added to the repository.

Stock editing

Most stock is kept on the Library's open shelves. As space is at a premium, especially in the Main Library, periodic weeding is used to remove less-well used material to store from where it can be retrieved usually within one working day.

Unused duplicates are disposed of from time to time.

Weeding and withdrawal criteria are described in the Collection Management Policy.

Donations

Offers of donations are welcome, but they can normally only be considered for acceptance if they are within the collection areas detailed above.

Other factors taken into account in deciding upon acceptance are listed in the Collection Management Policy.

Recommendations

The Library welcomes recommendations for the purchase of books from staff and students of the School. Purchases are normally made if:

Recommendations fall within the scope of the policy as described above;
Funds are available;
The item is not already in stock.

Usually:

Only a single copy only of a printed book is purchased;
Books must normally be written in English;
They must be of an appropriate academic standard.

For reading list texts, multiple copies and electronic versions will be considered as appropriate.

Recommendations can be made directly to the Faculty Team Librarian, or by filling in this form.

Journal recommendations are considered twice a year in March and November. Because of the forward financial commitment involved journal subscriptions usually have to be balanced by savings elsewhere in the subscription budget. Recommendations should be made through the School Library Representative.

Contacts

Faculty Team Librarian, Mathematics: John Blunden-Ellis

0161-275-8729

j.blunden-ellis@manchester.ac.uk

School of Mathematics, Library Representative: Mike Tso

0161-306-3219

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Appendices

Appendix 1

Collection Evaluation: Mathematics.

In November 2010, 13249 books were counted in the 510-519.99 open shelves sequence at the Main Library and a further 6598 at the Joule Library.

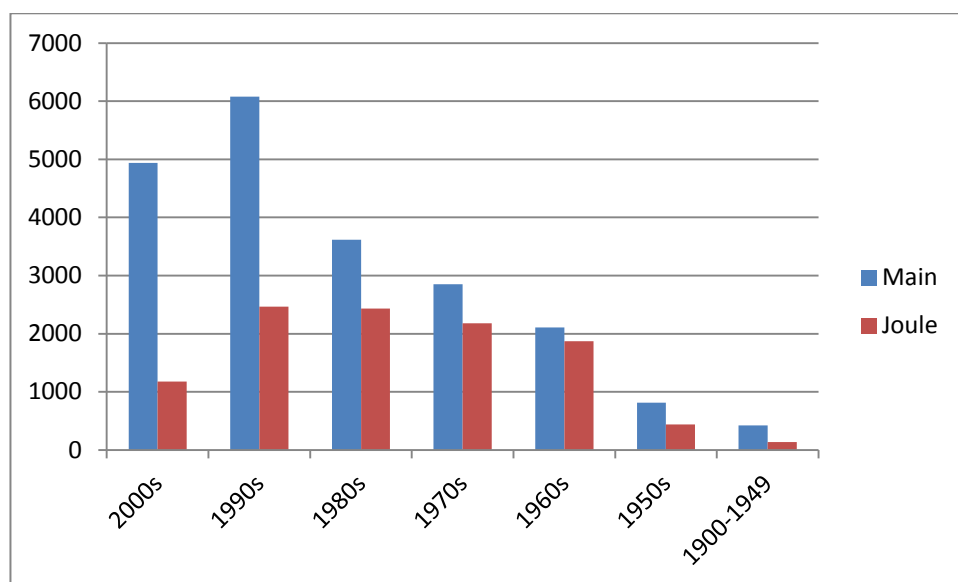


Figure 1. Mathematics bookstock by date of publication.

Figure 1 shows a breakdown of the stock in both sites by date of publication. The lower number of books on shelf published in the 2000s compared to the 1990s is a reflection of the amount of mathematics books available electronically (estimated 3000 – 4000 items) and thus not purchased in print. In addition the low number of 2000s published mathematics books (510-519.99) in the Joule is a consequence of the merged School moving to the Oxford Road campus.

A breakdown of stock by broad subject classification is shown in Figure 2. It shows that the biggest collections are in Algebra (511s), Analysis (515s), and Probability & Statistics (519s), with smaller collections in Discrete Mathematics & Logic (511s), Topology (514s), Geometry (516s), and Numerical Methods (518s). 510s contains general mathematics (wide-ranging textbooks and historical material), while the 513 and 517 classifications are no longer used.

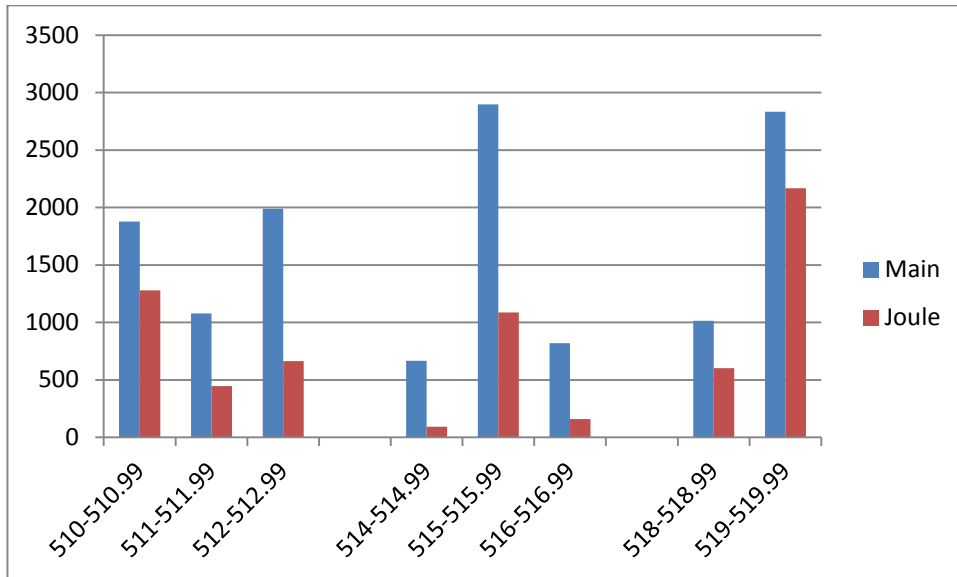
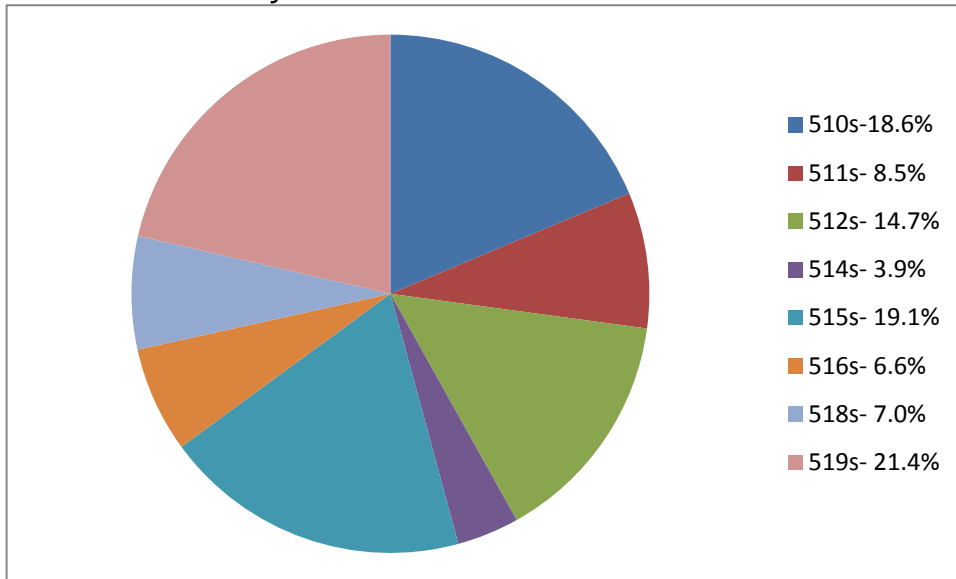


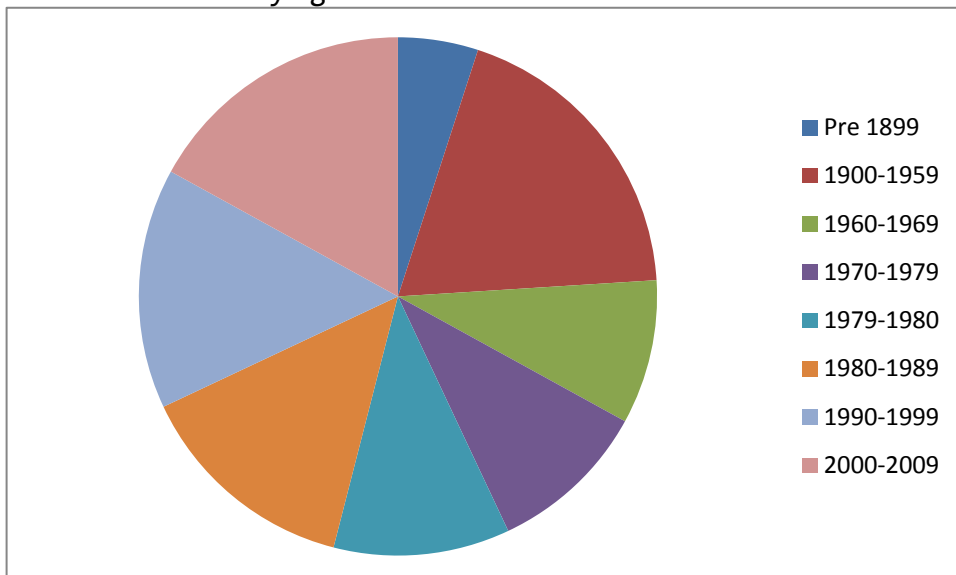
Figure 2. Mathematics bookstock by classification.

Appendix 2

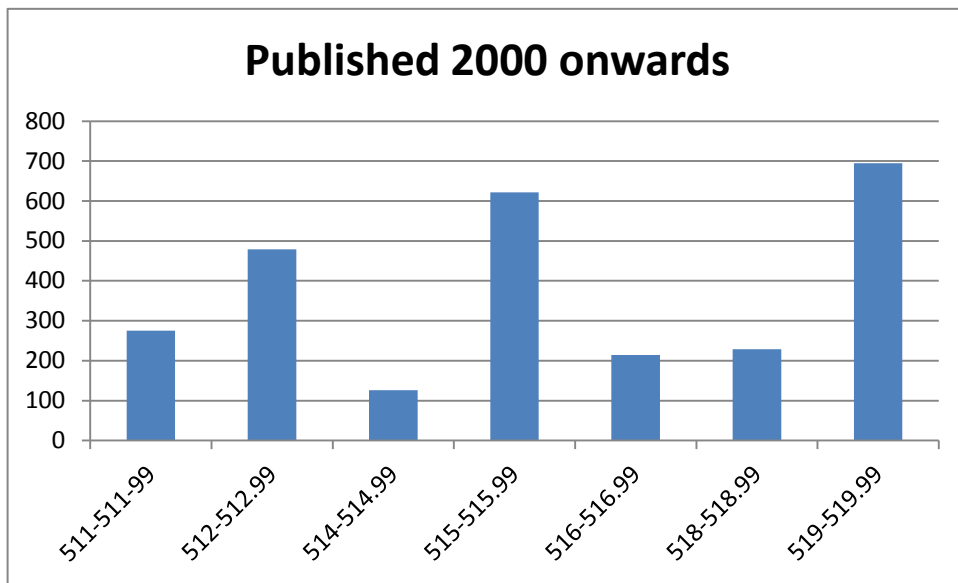
Mathematics Stock by Classification



Mathematics Stock by Age



Detailed Breakdown 2000-2009 by Classification



Appendix 3

Other Current Subscriptions: Mathematics

Listed here are other mathematics resources which are obtained on subscription. They include bibliographic databases, specific and general, and e-book collections.

Bibliographic Databases: mathematics

MathSciNet
Zentralblatt MATH

Bibliographic Databases: general

Compendex
Inspec
Scopus
Web of Knowledge

E-Book Collections

Springer e-book collection (Mathematics & Statistics). Subscription 2005 -

Appendix 4

Purchases on Bookfund 202 in F.Y. 2008/09

Author	Title	Pub. Date	Sequence	Classmark
Richardson, Thomas J. (Thomas Joseph), 1961-	Modern coding theory / Tom Richardson, Rüdiger Urbanke	2008	Blue Area Floor 2	003.54
Barrat, Alain, 1971-	Dynamical processes on complex networks / Alain Barrat,	2008	Blue Area Floor 2	003.72
Dineen, Seán, 1944-	Probability theory in finance : a mathematical guide to	2005	Blue Area Floor 2	332.6
Zhu, Youlan	Derivative securities and difference methods / You-lan	2004	Blue Area Floor 2	332.6
	Modern actuarial theory and practice / Philip Booth ...	2003	Blue Area Floor 2	368
Asmussen, Søren	Ruin probabilities / Søren Asmussen	2000	Blue Area Floor 2	368
De Jong, Piet	Generalized linear models for insurance data / Piet de	2008	Blue Area Floor 2	368
Dickson, D. C. M. (David C. M.), 1959-	Insurance risk and ruin / David C.M. Dickson	2005	Blue Area Floor 2	368
Gupta, A. K. (Arjun K.), 1938-	An introduction to actuarial mathematics / by A.K. Gupta	2002	Blue Area Floor 2	368
Klugman, Stuart A., 1949-	Loss models : from data to decisions / Stuart A. Klugma	2008	Blue Area Floor 2	368
Promislow, S. David	Fundamentals of actuarial mathematics / S. David Promis	2006	Blue Area Floor 2	368
Rotar', V. I. (Vladimir Il'ich)	Actuarial models : the mathematics of insurance / Vladi	2007	Blue Area Floor 2	368
Haberman, Steven, 1951-	Actuarial models for disability insurance / S. Haberman	1999	Blue Area Floor 2	368.0942
Møller, Thomas	Market-valuation methods in life and pension insurance	2007	Blue Area Floor 2	368.3
Higham, Nicholas J, 1961-	Handbook of writing for the mathematical sciences / Nic	1998	Blue Area Floor 2	501.49
	The Princeton companion to mathematics / editor, Timoth	2008	Blue Area Floor 2	510
Gray, Jeremy, 1947-	Plato's ghost : the modernist transformation of mathema	2008	Blue Area Floor 2	510.9
Tent, M. B. W. (Margaret B. W.), 1944-	Emmy Noether : the mother of modern algebra / M.B.W. Te	2008	Blue Area Floor 2	510.92
Kossak, Roman, 1953-	The structure of models of Peano arithmetic / Roman Kos	2006	Blue Area Floor 2	511.3
Prest, Mike	Purity, spectra and localisation / Mike Prest	2009	Blue Area Floor 2	511.3
Caribbean Mathematics Foundation Conference o	Ordered algebraic structures : proceedings of the Carib	1989	Blue Area Floor 2	511.33
Haskell, Deirdre, 1963-	Stable domination and independence in algebraically clo	2008	Blue Area Floor 2	511.34
Poizat, Bruno	Stable groups / Bruno Poizat	2001	Blue Area Floor 2	511.34
	Proof and other dilemmas : mathematics and philosophy /	2008	Blue Area Floor 2	511.36

Buhmann, M. D. (Martin Dietrich), 1963-	Radial basis functions : theory and implementations / M	2003	Blue Area Floor 2	511.42
Moore, Ramon E.	Introduction to interval analysis / Ramon E. Moore, R.	2009	Blue Area Floor 2	511.42
Wendland, Holger, 1968-	Scattered data approximation / Holger Wendland	2005	Blue Area Floor 2	511.42
Franceschetti, Massimo	Random networks for communication : from statistical ph	2007	Blue Area Floor 2	511.5
Lauritzen, Steffen L.	Graphical models / Steffen L. Lauritzen	1996	Blue Area Floor 2	511.5
Tutte, W. T.	Connectivity in graphs / by W.T. Tutte	1966	Blue Area Floor 2	511.5
Alon, Noga	The probabilistic method / Noga Alon, Joel H. Spencer	2008	Blue Area Floor 2	511.6
Beth, Thomas, 1949-	Design theory	1999	Blue Area Floor 2	511.6
Graver, Jack	Combinatorial rigidity / Jack Graver, Brigitte Servatiu	1993	Blue Area Floor 2	511.6
Ionin, Yury J.	Combinatorics of symmetric designs / Yury Ionin, Mohan	2006	Blue Area Floor 2	511.6
Knuth, Donald Ervin, 1938-	Stable marriage and its relation to other combinatorial	1997	Blue Area Floor 2	511.6
Lothaire, M.	Algebraic combinatorics on words / M. Lothaire	2002	Blue Area Floor 2	511.6
	Model theory, algebra, and geometry / edited by Deirdre	2000	Blue Area Floor 2	511.8
Isaacs, I. Martin, 1940-	Algebra : a graduate course / I. Martin Isaacs	2009	Blue Area Floor 2	512
	Groups and combinatorics : in memory of Michio Suzuki /	2001	Blue Area Floor 2	512.2
	The Coxeter legacy : reflections and projections / Chan	2006	Blue Area Floor 2	512.2
Aschbacher, Michael, 1944-	The classification of quasithin groups	2004	Blue Area Floor 2	512.2
Conference on Finite Groups--Coming of Age :C	Finite groups--coming of age : proceedings of the Canad	1985	Blue Area Floor 2	512.2
Davis, Michael, 1949 Apr. 26-	The geometry and topology of Coxeter groups / Michael W	2008	Blue Area Floor 2	512.2
Dixmier, Jacques	Enveloping algebras / Jacques Dixmier	1996	Blue Area Floor 2	512.2
Frenkel, Edward, 1968-	Langlands correspondence for loop groups / Edward Frenk	2007	Blue Area Floor 2	512.2
Hermann Weyl Conference :Bielefeld, Germany (Groups and analysis : the legacy of Hermann Weyl / edit	2008	Blue Area Floor 2	512.2
Holt, Derek F.	Handbook of computational group theory / Derek F. Holt,	2005	Blue Area Floor 2	512.2
Meier, John, 1965-	Groups, graphs, and trees : an introduction to the geom	2008	Blue Area Floor 2	512.2
Schmidt, Roland	Subgroup lattices of groups / by Roland Schmidt	1994	Blue Area Floor 2	512.2
Summer School in Group Theory (3rd :Banff, Al	Summer School in Group Theory in Banff, 1996 / Olga Kha	1999	Blue Area Floor 2	512.2
Taylor, Donald E. (Donald Ewen), 1945-	The geometry of the classical groups / Donald E. Taylor	1992	Blue Area Floor 2	512.2
Tits, Jacques	Moufang polygons / Jacques Tits, Richard M. Weiss	2002	Blue Area Floor 2	512.2
Weiss, Richard M. (Richard Mark), 1946-	The structure of spherical buildings / Richard M. Weiss	2003	Blue Area Floor 2	512.2
	Group representation theory / Meinolf	2007	Blue Area	512.22

	Geck, Donna Teste		Floor 2	
Simon, Barry, 1946-	Representations of finite and compact groups / Barry Si	1996	Blue Area Floor 2	512.22
Weintraub, Steven H.	Representation theory of finite groups : algebra and ar	2003	Blue Area Floor 2	512.22
Gorenstein, Daniel	Finite groups / Daniel Gorenstein	2007	Blue Area Floor 2	512.23
Isaacs, I. Martin, 1940-	Finite group theory / I. Martin Isaacs	2008	Blue Area Floor 2	512.23
Ivanov, A. A. (Aleksandr Anatolievich), 1958-	The Monster group and Majorana involutions / A.A. Ivano	2009	Blue Area Floor 2	512.23
Borceux, Francis, 1948-	Galois theories / Francis Borceux, George Janelidze	2001	Blue Area Floor 2	512.32
Colby, R. R.	Equivalence and duality for module categories : (with t	2004	Blue Area Floor 2	512.4
Fuchs, La ´szlo ´	Modules over non-Noetherian domains / La ´szlo ´ Fuchs, L	2001	Blue Area Floor 2	512.4
Skorobogatov, Alexei, 1961-	Torsors and rational points / Alexei Skorobogatov	2001	Blue Area Floor 2	512.4
Roberts, Paul, Ph. D	Multiplicities and Chern classes in local algebra / Pau	1998	Blue Area Floor 2	512.44
Cohn, P. M. (Paul Moritz)	Skew fields : theory of general division rings / P.M. C	1995	Blue Area Floor 2	512.46
Krause, G. R.	Growth of algebras and Gelfand-Kirillov dimension / Gu ´	2000	Blue Area Floor 2	512.46
McCrimmon, Kevin, 1941-	A taste of Jordan algebras / Kevin McCrimmon	2004	Blue Area Floor 2	512.48
Conway, John H. (John Horton), 1937-	On quaternions and octonions : their geometry, arithmet	2003	Blue Area Floor 2	512.5
	Proceedings on moonshine and related topics / John McKa	2001	Blue Area Floor 2	512.55
Aguiar, Marcelo, 1968-	Coxeter groups and Hopf algebras / Marcelo Aguiar and S	2006	Blue Area Floor 2	512.55
Humphreys, James E.	Conjugacy classes in semisimple algebraic groups / Jame	1995	Blue Area Floor 2	512.55
Knapp, Anthony W., 1941-	Cohomological induction and unitary representations / A	1995	Blue Area Floor 2	512.55
Raeburn, Iain, 1949-	Morita equivalence and continuous-trace Cplus-algebras	1998	Blue Area Floor 2	512.55
Palmer, Theodore W.	Banach algebras and the general theory of star-algebras	2001	Blue Area Floor 2	512.554
Sinclair, Allan M.	Finite von Neumann algebras and masas / Allan M. Sincla	2008	Blue Area Floor 2	512.556
Shlapentokh, Alexandra	Hilbert's tenth problem : diophantine classes and exten	2007	Blue Area Floor 2	512.72
Gras, Georges, 1944-	Class field theory : from theory to practice / Georges	2003	Blue Area Floor 2	512.74
Weiss, Richard M. (Richard Mark), 1946-	Quadrangular algebras / Richard M. Weiss	2006	Blue Area Floor 2	512.74
Schinzel, A. (Andrzej)	Polynomials with special regard to reducibility / A. Sc	2000	Blue Area Floor 2	512.942
Sturmfels, Bernd	Solving systems of polynomial equations / Bernd Sturmfel	2002	Blue Area Floor 2	512.942
	Number theory and polynomials / edited by James McKee,	2008	Blue Area Floor 2	512.9422
Bapat, R. B.	Nonnegative matrices and applications / R.B. Bapat, T.E	1997	Blue Area Floor 2	512.9434
Bhatia, Rajendra, 1952-	Positive definite matrices / Rajendra	2007	Blue Area	512.9434

	Bhatia		Floor 2	
Higham, Nicholas J., 1961-	Functions of matrices : theory and computation / Nichol	2008	Blue Area Floor 2	512.9434
Vandebril, Raf, 1978-	Matrix computations and semiseparable matrices	2008	Blue Area Floor 2	512.9434
Alpern, Steve, 1948-	Typical dynamics of volume preserving homeomorphisms /	2000	Blue Area Floor 2	514
International Conference on Toric Topology :O	Toric topology : international conference, May 29-June	2008	Blue Area Floor 2	514
Richeson, David S.	Euler's gem : the polyhedron formula and the birth of t	2008	Blue Area Floor 2	514.09
Gille, Philippe, 1968-	Central simple algebras and Galois cohomology / Philipp	2006	Blue Area Floor 2	514.23
Guest, Martin A.	From quantum cohomology to integrable systems / Martin	2008	Blue Area Floor 2	514.23
Harper, John R., 1941-	Secondary cohomology operations / John R. Harper	2002	Blue Area Floor 2	514.23
Park, Efton	Complex topological K-theory / Efton Park	2008	Blue Area Floor 2	514.23
Fe´lix, Y. (Yves)	Algebraic models in geometry / Yves Fe´lix, John Oprea,	2008	Blue Area Floor 2	514.24
Kochman, Stanley O., 1946-	Bordism, stable homotopy and Adams spectral sequences /	1996	Blue Area Floor 2	514.24
Nicolaescu, Liviu I.	Notes on Seiberg-Witten theory / Liviu I. Nicolaescu	2000	Blue Area Floor 2	514.3
Ozbagci, B.	Surgery on contact 3-manifolds and stein surfaces / Bur	2004	Blue Area Floor 2	514.3
Adem, Alejandro	Orbifolds and stringy topology / Alejandro Adem, Johann	2007	Blue Area Floor 2	514.34
Kronheimer, P. B.	Monopoles and three-manifolds / Peter Kronheimer, Tomas	2007	Blue Area Floor 2	514.34
Calegari, Danny	Foliations and the geometry of 3-manifolds / Danny Cale	2007	Blue Area Floor 2	514.72
Candel, Alberto, 1961-	Foliations I / Alberto Candel, Lawrence Conlon	2000	Blue Area Floor 2	514.72
Candel, Alberto, 1961-	Foliations II / Alberto Candel, Lawrence Conlon	2003	Blue Area Floor 2	514.72
Geiges, Hansjo¨rg, 1966-	An introduction to contact topology / Hansjo¨rg Geiges	2008	Blue Area Floor 2	514.72
Eells, James, 1926-2007	Harmonic maps between Riemannian polyhedra / J. Eells,	2001	Blue Area Floor 2	514.74
Hofer, Helmut	Symplectic invariants and Hamiltonian dynamics / Helmut	1994	Blue Area Floor 2	514.74
Kriegl, Andreas	The convenient setting of global analysis / Andreas Kri	1997	Blue Area Floor 2	514.74
Braides, Andrea	Gamma-convergence for beginners / Andrea Braides	2002	Blue Area Floor 2	515.24
	Introduction to analysis of the infinite	1988	Blue Area Floor 2	515.243
	Introduction to analysis of the infinite	1990	Blue Area Floor 2	515.243
Andrews, George E. (George Eyre), 1938-	q-series : their development and application in analysi	1986	Blue Area Floor 2	515.243
Ceccherini-Silberstein, Tullio	Harmonic analysis on finite groups : representation the	2008	Blue Area Floor 2	515.2433
Paterson, Alan L. T., 1944-	Amenability / Alan L.T. Paterson	1988	Blue Area Floor 2	515.2433
	Algebraic theory of differential equations / edited by	2009	Blue Area Floor 2	515.35

Ascher, U. M. (Uri M.), 1946-	Numerical methods for evolutionary differential equation	2008	Blue Area Floor 2	515.35
Bluman, George W., 1943-	Symmetry and integration methods for differential equation	2002	Blue Area Floor 2	515.35
Cioranescu, D. (Doina)	An introduction to homogenization / Doina Cioranescu, P	1999	Blue Area Floor 2	515.35
Fattorini, H. O. (Hector O.), 1938-	The Cauchy problem / H.O. Fattorini	1983	Blue Area Floor 2	515.35
Fokas, A. S., 1952-	A unified approach to boundary value problems / Athanas	2008	Blue Area Floor 2	515.35
Hundsdoerfer, W. H.	Numerical solution of time-dependent advection-diffusion	2003	Blue Area Floor 2	515.35
Kirsch, Andreas, 1953-	The factorization method for inverse problems / Andreas	2008	Blue Area Floor 2	515.35
Kozlov, V. A.	Elliptic boundary value problems in domains with point	1997	Blue Area Floor 2	515.35
Saito, Mutsumi, 1960-	Groebner deformations of hypergeometric differential equation	2000	Blue Area Floor 2	515.35
Vázquez, J. L. (Juan Luis)	The porous medium equation : mathematical theory / Juan	2007	Blue Area Floor 2	515.35
Astala, Kari, 1953-	Elliptic partial differential equations and quasiconformal	2009	Blue Area Floor 2	515.353
Benzoni-Gavage, Sylvie	Multidimensional hyperbolic partial differential equations	2007	Blue Area Floor 2	515.353
Krstić, Miroslav	Boundary control of PDEs : a course on backstepping design	2008	Blue Area Floor 2	515.353
Maly, Jan	Fine regularity of solutions of elliptic partial differential equations	1997	Blue Area Floor 2	515.353
Ouhabaz, El Maati	Analysis of heat equations on domains / El Maati Ouhaba	2005	Blue Area Floor 2	515.353
Sohr, H. (Hermann)	The Navier-Stokes equations : an elementary functional	2001	Blue Area Floor 2	515.353
Stroock, Daniel W.	Partial differential equations for probabilists / Daniel	2008	Blue Area Floor 2	515.353
Ghergu, Marius	Singular elliptic problems : bifurcation and asymptotic	2008	Blue Area Floor 2	515.3533
Urban, Karsten	Wavelet methods for elliptic partial differential equations	2009	Blue Area Floor 2	515.3533
Bressan, Alberto	Hyperbolic systems of conservation laws : the one-dimensional	2000	Blue Area Floor 2	515.3535
Hesthaven, Jan S.	Spectral methods for time-dependent problems / Jan S. H	2007	Blue Area Floor 2	515.3535
Barreira, Luis, 1968-	Nonuniform hyperbolicity : dynamics of systems with non	2007	Blue Area Floor 2	515.39
Sturman, Rob	The mathematical foundations of mixing : the linked twist	2006	Blue Area Floor 2	515.39
Bogachev, V. I. (Vladimir Igorevich), 1961-	Gaussian measures / Vladimir I. Bogachev	1998	Blue Area Floor 2	515.42
Brunner, H. (Hermann), 1941-	Collocation methods for Volterra integral and related functions	2004	Blue Area Floor 2	515.45
Brychkov, IĀ-U. A. (IĀ-UriĀ Aleksandrovich)	Handbook of special functions : derivatives, integrals,	2008	Blue Area Floor 2	515.5
Berhanu, Shiferaw	An introduction to involutive structures / Shiferaw Ber	2008	Blue Area Floor 2	515.63
Chicone, Carmen Charles	Evolution semigroups in dynamical systems and differential	1999	Blue Area Floor 2	515.724
Zhu, Kehe, 1961-	Operator theory in function spaces / Kehe Zhu	2007	Blue Area Floor 2	515.724

Davies, E. B. (Edward Brian)	Linear operators and their spectra / E. Brian Davies	2007	Blue Area Floor 2	515.7246
Pazy, A.	Semigroups of linear operators and applications to part	1983	Blue Area Floor 2	515.7246
Showalter, R. E.	Monotone operators in Banach space and nonlinear partia	1997	Blue Area Floor 2	515.7248
Diestel, J.	Vector measures / J.Diestel and J.J.Uhl	1977	Blue Area Floor 2	515.73
Pietsch, A. (Albrecht)	Orthonormal systems and Banach space geometry / Albrech	1998	Blue Area Floor 2	515.732
Ryan, Raymond A.	Introduction to tensor products of Banach spaces / Raym	2002	Blue Area Floor 2	515.732
Acze´l, J.	Functional equations in several variables / J. Acze´l,	1989	Blue Area Floor 2	515.84
	Transcendental dynamics and complex analysis : a tribut	2008	Blue Area Floor 2	515.9
Kodaira, Kunihiko, 1915-	Complex analysis / Kunihiko Kodaira ; translated by A.	2007	Blue Area Floor 2	515.9
Fletcher, Alastair	Quasiconformal maps and Teichmu¨ller theory / Alastair	2007	Blue Area Floor 2	515.94
Krantz, Steven G. (Steven George), 1951-	Function theory of several complex variables / by Steve	2000	Blue Area Floor 2	515.94
Mashreghi, Javad	Representation theorems in hardy spaces / Javad Mashreg	2009	Blue Area Floor 2	515.94
Duren, Peter L., 1935-	Bergman spaces / Peter Duren, Alexander Schuster	2004	Blue Area Floor 2	515.98
	Surveys in contemporary mathematics / edited by Nichola	2008	Blue Area Floor 2	516
Ambrosio, Luigi	Topics on analysis in metric spaces / Luigi Ambrosio an	2004	Blue Area Floor 2	516.1
Bryan, John, 1934 July 19-	How round is your circle? : where engineering and mathe	2008	Blue Area Floor 2	516.15
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Hu, Feifang, 1964-	The theory of response-adaptive randomization in clinic	2006	Blue Area Floor 2	610.724
Hedeker, Donald R., 1958-	Longitudinal data analysis / Donald Hedeker, Robert D.	2006	Blue Area Floor 2	610.727
Wang, H. (Hong)	Bounded dynamic stochastic systems : modelling and cont	2000	Blue Area Floor 2	629.8312

Appendix 5

Mathematics Journals April 2010

P=Print; F=Free

Title

Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg

Abstract and applied analysis

ACM Communications in Computer Algebra

ACM Transactions on Mathematical Software

ACM Transactions on Modeling and Computer Simulation

Acta Applicandae Mathematicae

Acta arithmetica

Acta Biotheoretica

Acta Mathematica

Acta Mathematica Academiae Paedagogicae Nyíregyháziensis

Acta Mathematica Hungarica

Acta Mathematica Scientia

Acta Mathematica Sinica

Acta Mathematica Universitatis Comenianae

Acta Mathematicae Applicatae Sinica

Acta Numerica

Advances in Applied Clifford Algebras

Advances in applied mathematics

Advances in applied probability

Advances in Computational Mathematics

Advances in Data Analysis and Classification

Advances in Difference Equations

Advances in Fuzzy Systems

Advances In Mathematics

Aequationes Mathematicae

African Journal of Mathematics and Computer Science Research

Algebra and Logic

Algebra Montpellier Announcements

Algebra Universalis

Algebraic & Geometric Topology

Algebras and Representation Theory

Algorithmica

American Journal of Mathematics

American Statistician

Analysis Mathematica

Annales Academiae Scientiarum Fennicae Mathematica

Annales de l'Institut Henri Poincaré (C) Non Linear Analysis

Annali di Matematica Pura ed Applicata

Annals of Applied Probability

Annals of Combinatorics

Annals of Global Analysis and Geometry

Annals of Mathematics

Annals of Mathematics and Artificial Intelligence

Annals of Probability

Annals of pure and applied logic
Annals of Statistics
Annals of the Institute of Statistical Mathematics
ANZIAM journal : the Australian & New Zealand industrial and applied mathematics journal
Applicable Algebra in Engineering, Communication and Computing
Applicable Algebra in Engineering, Communication and Computing
Applicable Analysis
Applications of Mathematics
Applied and computational harmonic analysis
Applied Categorical Structures
Applied mathematical finance
Applied mathematical modelling
Applied Mathematics - A Journal of Chinese Universities
Applied mathematics and computation
Applied Mathematics and Mechanics
Applied Mathematics and Optimization
Applied Mathematics E-Notes
Applied mathematics letters
Applied numerical mathematics
Applied sciences
Applied Stochastic Models and Data Analysis
Applied Stochastic Models in Business and Industry
Archiv der Mathematik
Archive for history of exact sciences
Archive for Mathematical Logic
Archive for Rational Mechanics and Analysis
Archives of computational methods in engineering
Archivum mathematicum
Arkiv för matematik
Asterisque
Australasian Journal of Logic
Australian & New Zealand journal of statistics
Automatic Documentation and Mathematical Linguistics
Balkan journal of geometry and its applications
Biometrics
Biometrika
Biostatistics
BIT Numerical Mathematics
Boletín de la Sociedad Matemática Mexicana
Boletín AMV
Boletín de la Sociedad Matemática Mexicana
Boundary value problems
British Journal of Mathematical & Statistical Psychology
BSHM Bulletin: Journal of the British Society for the History of Mathematics
Bulletin (New Series) of the American Mathematical Society
Bulletin de la Societe Mathematique de France
Bulletin des Sciences Mathématiques
Bulletin of Mathematical Biology
Bulletin of Symbolic Logic
Bulletin of the Australian Mathematical Society
Bulletin of the Brazilian Mathematical Society
Bulletin of the London Mathematical Society (Oxford)
Bulletin, classe des sciences mathématiques et naturelles, sciences mathématiques

Calcolo
 Calculus of Variations and Partial Differential Equations
 Canadian Journal of Mathematics (Journal Canadien de Mathématiques)
 Celestial Mechanics and Dynamical Astronomy
 Central European Journal of Mathematics
 Chaos
 Chaos, Solitons & Fractals
 Chemometrics and intelligent laboratory systems
 Chinese Annals of Mathematics - Series B
 Combinatorica
 Combinatorics, Probability & Computing : CPC
 Combustion theory and modelling
 Commentationes mathematicae Universitatis Carolinae
 Communications in algebra
 Communications in Mathematical Physics
 Communications in Nonlinear Science & Numerical Simulation
 Communications in numerical methods in engineering
 Communications in partial differential equations
 Communications in Statistics: Simulation and Computation
 Communications in Statistics: Theory and Methods
 Communications on Pure and Applied Mathematics
 Complex Analysis and Operator Theory
 Complex Variables and Elliptic Equations
 Complexity
 Compositio Mathematica
 Comptes Rendus de l'Académie des Sciences - Series I - Mathematics. Cont
 by Comptes rendus mathématique
 Computational & mathematical methods in medicine
 Computational & Mathematical Organization Theory
 Computational biology and chemistry
 Computational Complexity
 Computational Geometry
 Computational Geosciences
 Computational Intelligence
 Computational materials science
 Computational Mathematics and Mathematical Physics
 Computational Mathematics and Modeling
 Computational Mechanics
 Computational Optimization and Applications
 Computational Science and Discovery
 Computational Statistics
 Computational Statistics
 Computational statistics & data analysis
 Computer Aided Geometric Design
 Computer methods in applied mechanics and engineering
 Computers & Mathematics with Applications
 Computing
 Conformal geometry and dynamics : an electronic journal of the AMS
 Constructive Approximation
 Cryptologia
 Czechoslovak Mathematical Journal
 Designs, Codes and Cryptography
 Differential Equations
 Differential Equations and Dynamical Systems
 Differential equations and nonlinear mechanics

Differential Geometry - Dynamical systems
Differential geometry and its applications
Discrete & Computational Geometry
Discrete applied mathematics
Discrete Dynamics in Nature and Society
Discrete Event Dynamic Systems
Discrete Mathematics
Discrete mathematics and theoretical computer science
Discrete optimization
Documenta mathematica
Doklady Mathematics
Duke Mathematical Journal
Dynamical systems
Dynamics of Partial Differential Equations
Econometric reviews
Econometrica: Journal of the Econometric Society
Econometrics Journal
Educational and psychological measurement
Educational Studies in Mathematics
Electronic communications in probability
Electronic Journal of Differential Equations
Electronic journal of linear algebra
Electronic journal of probability
Electronic journal of qualitative theory of differential equations
Electronic notes in discrete mathematics
Electronic research announcements of the American Mathematical Society
Electronic transactions on numerical analysis
Engineering analysis with boundary elements
Environmental and Ecological Statistics
Environmetrics
Ergodic Theory and Dynamical Systems
European Journal of Applied Mathematics
European journal of combinatorics
European journal of operational research
Experimental Mathematics
Expositiones mathematicae
Extremes
Finance and stochastics
Finite elements in analysis and design
Finite Fields and their Applications
Fixed Point Theory and Applications
Forum Geometricorum
Foundations of Computational Mathematics
Frontiers of Mathematics in China
Functional analysis and its applications
Functional Analysis and Other Mathematics
Fundamental and applied mathematics
Funkcialaj ekvacioj. [electronic resource]. Serio internacia
Fuzzy sets and systems
Geometriae Dedicata
Geometric and Functional Analysis
Geometry & Topology
Georgian mathematical journal
Glasgow Mathematical Journal
Graphs and Combinatorics

Hiroshima mathematical journal
 Historia mathematica
 Hokkaido mathematical journal
 Homology, homotopy and applications
 IEEE/ACM transactions on computational biology and bioinformatics
 IMA Journal of Management Mathematics
 IMA Journal of Mathematical Control and Information
 IMA Journal of Numerical Analysis
 Informatica
 Information and computation
 INTEGERS: electronic journal of Combinatorial Number Theory
 Integral Equations and Operator Theory
 Integral Transforms and Special Functions
 International journal for numerical methods in engineering
 International journal for numerical methods in fluids
 International Journal of Advances in Engineering Sciences and Applied Mathematics
 International Journal of Approximate Reasoning
 International Journal of Computational Geometry and Applications

 International Journal of Computer Mathematics
 International Journal of Game Theory
 International journal of mathematical education in science and technology
 International Journal of Mathematics and Mathematical Sciences
 International journal of non-linear mechanics
 International Journal of Numerical Modelling: Electronic Networks, Devices and Fields
 International Journal of Quantum Chemistry
 International Journal of Robust and Nonlinear Control
 International Journal of Science and Mathematics Education
 International Mathematics Research Notices
 International mathematics research papers
 International Statistical Review / Revue Internationale de Statistique
 Inventiones mathematicae
 Inverse problems
 Inverse Problems in Science and Engineering
 Izvestiya: Mathematics
 Japanese Journal of Mathematics
 Journal d'Analyse Mathématique
 Journal de mathématiques pures et appliquées
 Journal de théorie des nombres de Bordeaux (English)
 Journal of algebra
 Journal of Algebraic Combinatorics
 Journal of applied mathematics
 Journal of Applied Mathematics & Decision Sciences
 Journal of Applied Mathematics and Computing
 Journal of applied mathematics and mechanics
 Journal of applied mathematics and stochastic analysis
 Journal of Applied Probability
 Journal of applied statistics
 Journal of approximation theory
 Journal of biopharmaceutical statistics
 Journal of Business and Economic Statistics
 Journal of Chemometrics
 Journal of classification

Journal of Combinatorial Designs
Journal of Combinatorial Optimization
Journal of Combinatorial Theory, Series A
Journal of Combinatorial Theory, Series B
Journal of Combinatorics
Journal of complexity
Journal of computational and applied mathematics
Journal of computational and nonlinear dynamics
Journal of Computational Biology
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Journal of Computational Finance
Journal of computational physics
Journal of Computational Science and Technology
Journal of Contemporary Mathematical Analysis
Journal of Cryptology
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Journal of Dynamical and Control Systems
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Journal of Evolution Equations
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Journal of Fluid Mechanics
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Journal of Graph Theory
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Journal of integer sequences
Journal of integral equations and applications
Journal of Logic and Algebraic Programming
Journal of Logic and Computation
Journal of mathematical analysis and applications
Journal of Mathematical Biology
Journal of Mathematical Chemistry
Journal of mathematical economics
Journal of Mathematical Fluid Mechanics
Journal of Mathematical Imaging and Vision
Journal of Mathematical Modelling and Algorithms
Journal of mathematical physics
Journal of mathematical psychology
Journal of Mathematical Sciences
Journal of Mathematical Sociology
Journal of Mathematics of Kyoto University
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Journal of modern applied statistical methods
Journal of multivariate analysis

Journal of nonlinear science
Journal of Nonparametric Statistics
Journal of number theory
Journal of operator theory
Journal of Optimization Theory and Applications
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Journal of the American Mathematical Society
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Journal of the Australian Mathematical Society
Journal of the Franklin Institute
Journal of the Institute of Mathematics of Jussieu
Journal of the Japan statistical society
Journal of the Korean Statistical Society
Journal of the London Mathematical Society
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Journal of the Royal Statistical Society. Series A. Statistics in society
Journal of the Royal Statistical Society. Series B (methodological)
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Journal of theoretical biology
Journal of Theoretical Probability
Journal of time series analysis
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K-Theory
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Lecture notes in mathematics
Letters in Mathematical Physics
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LMS journal of computation and mathematics
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Logic Journal of the IGPL
Logica Universalis
Manuscripta Mathematica
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Mathematica Scandinavica
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Mathematical and Computer Modelling
Mathematical and Computer Modelling of Dynamical Systems
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Mathematical Gazette
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Mathematical Intelligencer
Mathematical Logic Quarterly (MLQ)

Mathematical methods in the applied sciences
Mathematical methods of operations research
Mathematical Methods of Statistics
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Mathematics of Control, Signals and Systems
Mathematics of operations research
Mathematics Teaching

Mathematische Annalen
Mathematische Nachrichten
Mathematische Semesterberichte
Mathematische Zeitschrift
MCSS Mathematics of Control, Signals and Systems
Mediterranean Journal of Mathematics
Memoirs on Differential Equations and Mathematical Physics
Methodology and computing in applied probability
Metrika
Michigan Mathematical Journal
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Missouri Journal of Mathematical Sciences
Monatshefte für Mathematik
Moscow University Computational Mathematics and Cybernetics
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 PMM: Journal of applied mathematics and mechanics
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 Proceedings of the Steklov Institute of Mathematics
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 Rendiconti del Circolo Matematico di Palermo
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Theoretical computer science
Theory and applications of categories
Theory of Computing Systems
Theory of Probability and Its Applications
Topologica

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Transformation Groups
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Ukrainian Mathematical Journal
Universitatis Iagellonicae Acta Mathematica
Vestnik St. Petersburg University: Mathematics
Wiley Interdisciplinary Reviews: Computational Statistics
Zeitschrift für Angewandte Mathematik und Mechanik : ZAMM
Zeitschrift für angewandte Mathematik und Physik ZAMP