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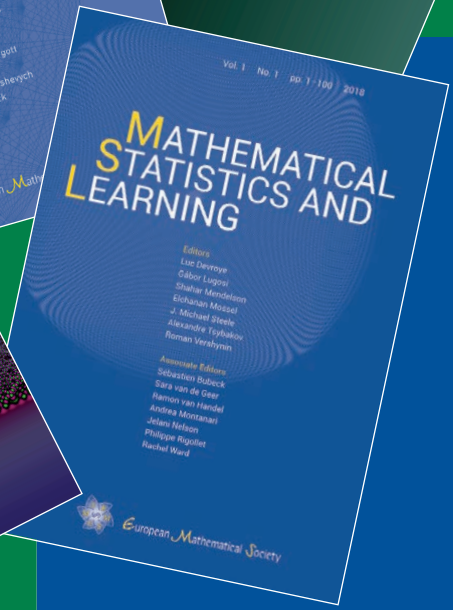

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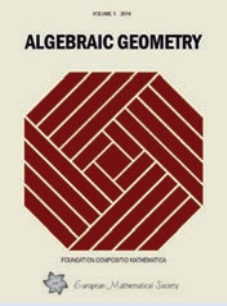
Algebraic Geometry (AG)



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Aims and Scope

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Open access implies here that the electronic version of the journal is freely accessible and that there are no article processing charges for authors whatsoever. The printed version of the journal will appear at the end of the calendar year and comprise the entire volume in one hard cover tome.

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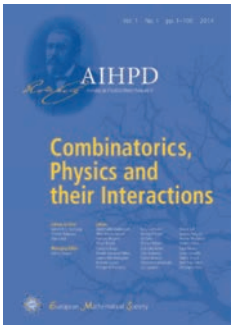
Combinatorics, Physics and their Interactions



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Aims and Scope

The unfolding of new ideas in physics is often tied to the development of new combinatorial methods, and conversely some problems in combinatorics have been successfully attacked using methods inspired by statistical physics or quantum field theory.

The journal is dedicated to publishing high-quality original research articles and survey articles in which combinatorics and physics interact in both directions. Combinatorial papers should be motivated by potential applications to physical phenomena or models, while physics papers should contain some interesting combinatorial development.

Both rigorous mathematical proof and heuristic physical reasoning have a place in this journal, but each must be clearly labeled. Definitions and proofs should be presented with the precision and rigor that are expected in a mathematics journal. Conjectures based on heuristic physical arguments and/or numerical evidence are warmly encouraged, but they should be clearly labeled as such and should be stated as precisely as possible.

The list of specific subject areas in which articles are anticipated includes:

Combinatorics of renormalization; combinatorics of cluster, virial and related expansions; discrete geometry and combinatorics of quantum gravity; graph polynomials and statistical-mechanics models; topological graph polynomials and quantum field theory; physical applications of combinatorial Hopf algebras, matroids, combinatorial species, and other combinatorial structures; exact solutions of statistical-mechanical models; combinatorics and algebra of integrable systems; computational complexity and its relation with statistical physics; computational/algorithmic aspects of combinatorial physics; interactions of combinatorial physics with topology, geometry, probability theory, or computer science.

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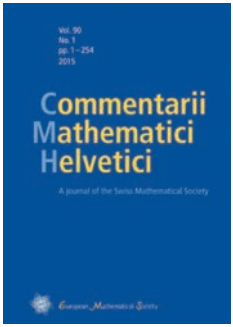

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Aims and Scope

Commentarii Mathematici Helvetici (CMH) was established on the occasion of a meeting of the Swiss Mathematical Society in May 1928. The first volume was published in 1929. The journal soon gained international reputation and is one of the world's leading mathematical periodicals. The first Managing Editor was R. Fueter, followed in 1950 by J. J. Burckhardt, 1982 by P. Gabriel, 1990 by H. Kraft, and 2006 by Eva Bayer-Fluckiger.

The journal is intended for the publication of original research articles on all aspects in mathematics.

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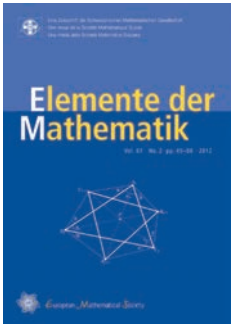
Elemente der Mathematik



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Aims and Scope

Elemente der Mathematik publishes survey articles about important developments in the field of mathematics; stimulating shorter communications that tackle more specialized questions; and papers that report on the latest advances in mathematics and applications in other disciplines. The journal does not focus on basic research. Rather, its articles seek to convey to a wide circle of readers (teachers, students, engineers, professionals in industry and administration) the relevance, intellectual challenge and vitality of mathematics today. The Problems Section, covering a diverse range of exercises of varying degrees of difficulty, encourages an active grappling with mathematical problems. The journal's books and software reviews are additional features that serve to keep readers attuned to what is new and exciting on all mathematical fronts.

The publication language is primarily German, but many articles are in English, French or Italian.

Die *Elemente der Mathematik* richten sich an interessierte Mathematikerinnen und Mathematiker, insbesonders an Lehrende an Gymnasien und Ingenieurschulen sowie an Studierende, Assistentinnen und Assistenten der Mathematik und verwandter Fachgebiete. Ihr Ziel ist es, den Leserinnen und Lesern aktuelle und klassische Gebiete der Mathematik nahe zu bringen, und sie zu einer aktiven Auseinandersetzung mit der Mathematik anzuregen.

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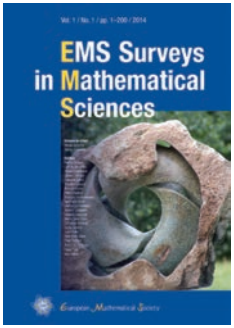

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Aims and Scope

The *EMS Surveys in Mathematical Sciences* is dedicated to publishing authoritative surveys and high-level expositions in all areas of mathematical sciences. It is a peer-reviewed periodical which communicates advances of mathematical knowledge to give rise to greater progress and cross-fertilization of ideas. Surveys should be written in a style accessible to a broad audience, and might include ideas on conceivable applications or conceptual problems posed by the contents of the survey.

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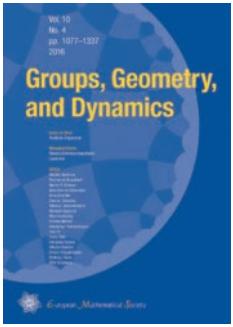

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Aims and Scope

Groups, Geometry, and Dynamics is devoted to publication of research articles that focus on groups or group actions as well as articles in other areas of mathematics in which groups or group actions are used as a main tool. The journal covers all topics of modern group theory with preference given to geometric, asymptotic and combinatorial group theory, dynamics of group actions, probabilistic and analytical methods, interaction with ergodic theory and operator algebras, and other related fields.

Topics covered include: geometric group theory; asymptotic group theory; combinatorial group theory; probabilities on groups; computational aspects and complexity; harmonic and functional analysis on groups, free probability; ergodic theory of group actions; cohomology of groups and exotic cohomologies; groups and low-dimensional topology; group actions on trees, buildings, rooted trees.

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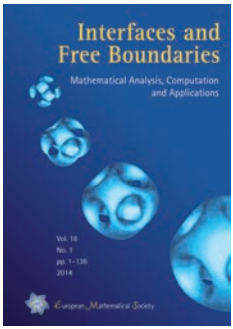
Mathematical Analysis, Computation and Applications



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Aims and Scope

Interfaces and Free Boundaries is dedicated to the mathematical modelling, analysis and computation of interfaces and free boundary problems in all areas where such phenomena are pertinent. The journal aims to be a forum where mathematical analysis, partial differential equations, modelling, scientific computing and the various applications which involve mathematical modelling meet. Submissions should, ideally, emphasize the combination of theory and application.

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Journal of Combinatorial Algebra (JCA)

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Aims and Scope

The *Journal of Combinatorial Algebra* is devoted to publication of research articles of the highest level. Its domain is the rich and deep area of interplay between combinatorics and algebra. Its scope includes combinatorial aspects of group, semigroup and ring theory, representation theory, commutative algebra, algebraic geometry and dynamical systems. Exceptionally strong research papers from all parts of mathematics related to these fields are also welcome.

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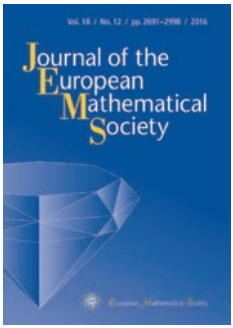

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Aims and Scope

Journal of the European Mathematical Society (JEMS) is the official journal of the EMS. The Society, founded in 1990, works at promoting joint scientific efforts between the many different structures that characterize European mathematics. JEMS publishes research articles in all active areas of pure and applied mathematics. These are selected by a distinguished, international board of editors for their outstanding quality and interest, according to the highest international standards. Occasionally, substantial survey papers on topics of exceptional interest will also be published.

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Journal of Fractal Geometry (JFG)

Mathematics of Fractals and Related Topics

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2018. Vol. 5, 4 issues
Approx. 400 pages. 17.0 × 24.0 cm
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198 € online only / 238 € print+online
Published by EMS

Aims and Scope

The *Journal of Fractal Geometry* is dedicated to publishing high quality contributions to fractal geometry and related subjects, or to mathematics in areas where fractal properties play an important role.

The *Journal of Fractal Geometry* accepts submissions containing original research articles and short communications. Occasionally research expository or survey articles will also be published. Only contributions representing substantial advances in the field will be considered for publication. Surveys and expository papers, as well as papers dealing with the applications to other sciences or with experimental mathematics, may be considered, especially when they contain significant mathematical content or value and suggest interesting new research directions through conjectures or the discussion of open problems.

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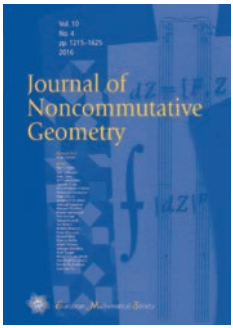
Journal of Noncommutative Geometry (JNCG)



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Aims and Scope

The *Journal of Noncommutative Geometry* covers the noncommutative world in all its aspects. It is devoted to publication of research articles which represent major advances in the area of noncommutative geometry and its applications to other fields of mathematics and theoretical physics.

Topics covered include in particular: Hochschild and cyclic cohomology; K-theory and index theory; measure theory and topology of noncommutative spaces, operator algebras; spectral geometry of noncommutative spaces; noncommutative algebraic geometry; Hopf algebras and quantum groups; foliations, groupoids, stacks, gerbes; deformations and quantization; noncommutative spaces in number theory and arithmetic geometry; noncommutative geometry in physics: QFT, renormalization, gauge theory, string theory, gravity, mirror symmetry, solid state physics, statistical mechanics.

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Journal of Spectral Theory (JST)

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Price of subscription:
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Published by EMS

Aims and Scope

The *Journal of Spectral Theory* is devoted to the publication of research articles that focus on spectral theory and its many areas of application. Articles of all lengths including surveys of parts of the subject are very welcome.

The following list includes several aspects of spectral theory and also fields which feature substantial applications of (or to) spectral theory.

- Schrödinger operators, scattering theory and resonances;
- eigenvalues: perturbation theory, asymptotics and inequalities;
- quantum graphs, graph Laplacians;
- pseudo-differential operators and semi-classical analysis;
- random matrix theory;
- the Anderson model and other random media;
- non-self-adjoint matrices and operators, including Toeplitz operators;
- spectral geometry, including manifolds and automorphic forms;
- linear and nonlinear differential operators, especially those arising in geometry and physics;
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- inverse problems.

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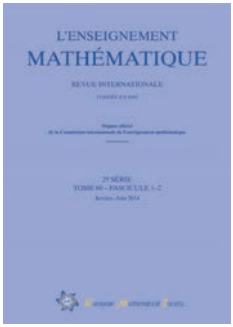

Organe officiel de la Commission internationale de l'enseignement mathématique

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2018. Vol. 64, 2 double issues
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Published by EMS

Aims and Scope

The journal *L'Enseignement Mathématique* was founded in 1899 by Henri Fehr (Geneva) and Charles-Ange Laisant (Paris). It is intended primarily for publication of high-quality research and expository papers in mathematics. Approximately 60 pages each year will be devoted to book reviews.

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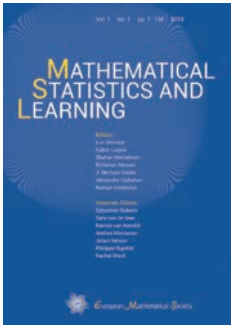

New in 2018

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2018. Vol. 1, 4 issues
Approx. 400 pages. 17.0 × 24.0 cm
Price of subscription:
198 € online only / 238 € print+online
Published by EMS

Aims and Scope

Mathematical Statistics and Learning is devoted to research articles of the highest quality in all aspects of mathematical statistics and learning, including those studied in traditional areas of statistics and in machine learning as well as in theoretical computer science and signal processing.

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Oberwolfach Reports (OWR)

ISSN print 1660-8933
ISSN online 1660-8941
2018. Vol. 15, 4 issues
Approx. 3200 pages. 16.5 × 23.5 cm. Hardcover
Price of subscription:
220 € online only / 300 € print+online
Published by EMS

Aims and Scope

The "Mathematisches Forschungsinstitut Oberwolfach" regularly organizes workshops in all fields of Mathematics. Their aim is to offer 45–48 experts, invited by the Institute's Director, the opportunity to present recent research results, especially new methods, and to initiate future research projects. Mathematical research mainly aims at the study of the structure and inner correlations of mathematical objects and at the development of more comprehensive theories. Many mathematical questions are consequences of the effort to describe nature in mathematical terms, but it can also happen that the mathematical frame was created before the appearance of the applications. The process of research leads to mathematical theorems, whose proofs are typically complicated. The final write-up of a proof can best be done at the home institutes, but the development of a mathematical theory and, within such a theory, of a promising idea for a proof, is an extremely creative process depending very much on intuition and experience.

Naturally, coincidence also plays a big role. Improving the chances for progress by coincidence is one of the main purposes of the research at the Oberwolfach Institute. When getting to know the background of an important result during a talk, one can suddenly have a bright idea, perhaps leading to a considerable progress in one's own research activity. Within discussions in small groups, when presenting fresh thoughts, one sometimes can find the right direction for further work with the help of the comments of colleagues. Often it also happens that two or three colleagues, during discussions, become aware that they, though coming from different backgrounds and with different motivations, are interested in similar problems and decide to unify their potential in order to establish a common research project.

All this happens nearly daily at these workshops. A great number of important papers have been initiated at Oberwolfach in this manner. Contrary to the typically large conferences all over the world, workshops at Oberwolfach emphasize active research.

The *Oberwolfach Reports* are meant to capture, in an informal manner, the characteristic ideas and discussions of these workshops. As a service to the community, they are now offered by the Institute, at a nominal price, and allow the public to partake in the lively and stimulating atmosphere of these meetings. While the peer-reviewed results will appear elsewhere, the Oberwolfach Reports will keep the reader abreast of current developments and open problems, and serve as an indispensable source of information for the active mathematician.

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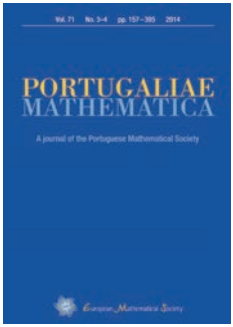

A journal of the Portuguese Mathematical Society

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2018. Vol. 75, 4 issues
Approx. 400 pages. 17.0 × 24.0 cm
Price of subscription:
196 € online only / 236 € print+online
Published by EMS

Aims and Scope

Since its foundation in 1937, *Portugaliae Mathematica* has aimed at publishing high-level research articles in all branches of mathematics. With great efforts by its founders, the journal was able to publish articles by some of the best mathematicians of the time. In 2001 a *New Series of Portugaliae Mathematica* was started, reaffirming the purpose of maintaining a high-level research journal in mathematics with a wide range scope.

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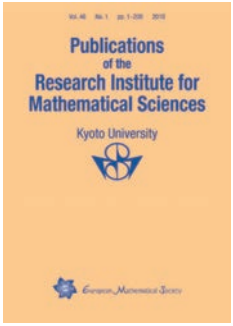
Publications of the Research Institute for Mathematical Sciences (PRIMS)



A journal of the Research Institute for Mathematical Sciences of Kyoto University

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Approx. 800 pages. 17.0 × 24.0 cm
Price of subscription:
298 € online only / 348 € print+online
Published by EMS

Aims and Scope

The aim of the *Publications of the Research Institute for Mathematical Sciences* (PRIMS) is to publish original research papers in the mathematical sciences. Occasionally surveys are included at the request of the editorial board.

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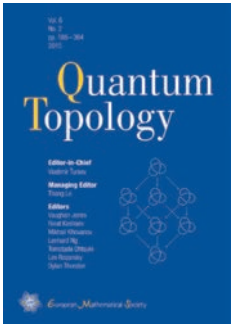
Quantum Topology (QT)



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238 € online only / 298 € print+online
Published by EMS

Aims and Scope

Quantum Topology is dedicated to publishing original research articles, short communications, and surveys in quantum topology and related areas of mathematics. Topics covered include in particular:

- low-dimensional topology;
- knot theory;
- Jones polynomial and Khovanov homology;
- topological quantum field theory;
- quantum groups and Hopf algebras;
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Atti della Accademia Nazionale dei Lincei
Rendiconti Lincei – Matematica e Applicazioni (RLM)

ISSN print 1120-6330
ISSN online 1720-0768
2018. Series 9. Vol. 29, 4 issues
Approx. 400 pages. 17.0 × 24.0 cm
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Reduced subscription rate for Italian end customers.
Published by EMS

Aims and Scope

The Accademia dei Lincei (Lynx), founded in 1603, is the oldest academy dedicated to the study of humanities as well as physics, mathematics and the natural sciences in the world. Through the centuries, some of the most important scientists of their time have been among their members, including Galileo Galilei, Enrico Fermi and Vito Volterra.

The academy began publishing in 1873 with the *Atti della Reale Accademia dei Lincei, Transunti*. Continued in 1884 as *Atti della Reale Accademia dei Lincei, Rendiconti* and under the present name in 1990, the *Rendiconti Lincei* have been one of the best Italian journals ever since. Papers by the most outstanding Italian mathematicians such as Betti, Bianchi, Caccioppoli, Castelnuovo, Enriques, Levi-Civita, Picone, Tonelli, Volterra and, more recently, Andreotti, Fichera, De Giorgi, Segre, Severi and Stampacchia have been published.

The journal is dedicated to the publication of high-quality peer-reviewed surveys, research papers and preliminary announcements of important results from all fields of mathematics and its applications.

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The Mathematical Journal of the University of Padua

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2018. Two volumes (nos. 139 and 140) of
approximately 250 pages each. 17.0 × 24.0 cm
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Published by EMS

Aims and Scope

The *Rendiconti del Seminario Matematico della Università di Padova* have been published by the Seminario Matematico of the University of Padua since 1930. The aim of *Rendiconti* is to publish original high-quality research articles in mathematics. By tradition the journal focuses on algebra, analysis, algebraic and differential geometry, mathematical physics and number theory. The journal is ready to accept long papers of foundational or technical nature, as well as papers containing applications or surveys, provided these are especially well structured and fill a gap in the literature.

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Revista Matemática Iberoamericana (RMI)

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Aims and Scope

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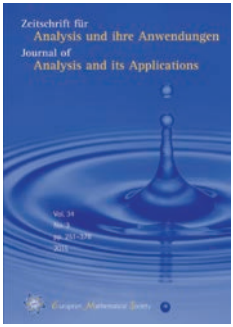

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The *Journal for Analysis and its Applications* aims at disseminating theoretical knowledge in the field of analysis and, at the same time, cultivating and extending its applications. To these ends, it publishes research articles on differential equations, functional analysis and operator theory, notably with applications to continuum mechanics or other disciplines of the exact sciences.

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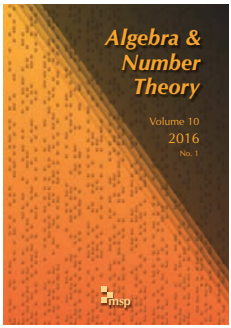

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Algebra & Number Theory's broad definition of algebra and number theory allows it to print high-quality research covering a wide range of subtopics, including algebraic and arithmetic geometry. ANT publishes high-quality articles of interest to a broad readership, at a level surpassing all but the top four or five mathematics journals.

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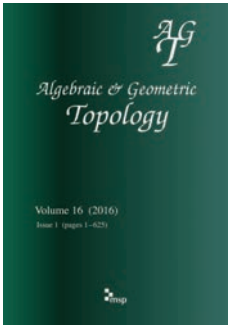

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Aims and Scope

Algebraic & Geometric Topology publishes papers in all areas of algebraic and geometric topology. Founded in 2001, AGT is now a prominent journal in its field, its high standards and rigorous editorial process attracting an ever-increasing number of excellent submissions. AGT has an impact factor regularly placing in the top third of all journals.

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Aims and Scope

Communications in Applied Mathematics and Computational Science accepts innovative papers in all areas where mathematics and applications interact. In particular, the journal welcomes papers where an idea is followed from beginning to end – from an abstract beginning to a piece of software, or from a computational observation to a mathematical theory.

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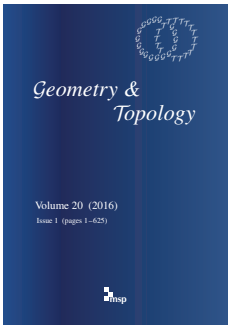

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Involve showcases and encourages high-quality mathematical research involving students from all academic levels. The editorial board consists of mathematical scientists committed to nurturing student participation in research.

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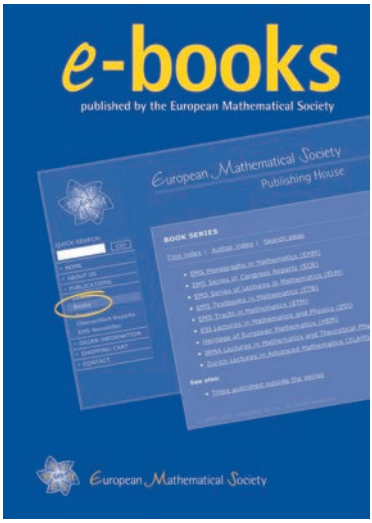

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What is the European Mathematical Society?

The European Mathematical Society is a learned society representing mathematicians throughout Europe. It promotes the development of all aspects of mathematics in Europe, in particular mathematical research, relations of mathematics to society, relations to European institutions, and mathematical education. The EMS has as its members around 60 national mathematical societies in Europe, 40 mathematical research centres and departments, and 3000 individuals.

The Society seeks to serve all mathematicians in universities, research institutes and other organizations in higher education. Its main aims are to

- promote mathematical research
- foster interaction between mathematicians of different countries
- establish a sense of identity amongst European mathematicians, and
- represent the mathematical community in European institutions

Meetings of the Society

Since its inception in 1990, the Society has actively promoted meetings. A four year cycle of European Congresses began in Paris in 1992, followed by Budapest in 1996, Barcelona in 2000, Stockholm in 2004, Amsterdam in 2008, Krakow in 2012 and Berlin in 2016. At each congress, ten EMS Prizes are awarded to young mathematicians. Additionally, the Felix Klein Prize is awarded for outstanding applications of mathematics, and the Neugebauer Prize is awarded in the History of Mathematics.

While the EMS Congresses are the flagship meetings of the society, EMS also runs a series of summer schools in pure and applied mathematics, joint mathematical weekends with other societies, and chooses the distinguished EMS lecturers.

EMS Secretariat:
Department of Mathematics & Statistics
P.O.Box 68 (Gustaf Hällströmink. 2b)
00014 University of Helsinki
Finland

http://euro-math-soc.eu