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EDITORS

Research-Expository Papers

Richard S. Palais
Managing Editor

*Research Announcements
and Research Reports*

Haynes R. Miller

Book Reviews

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This journal is devoted to articles of the following types:

Research-Expository Papers

These are, by definition, papers that present a clear and insightful exposition of significant aspects of contemporary mathematical research. Gibbs lectures, Progress in Mathematics lectures, and retiring presidential addresses will be included in this section.

Research Announcements

The purpose of this department is to publish quickly and disseminate widely significant new mathematics. A Research Announcement should be designed to communicate its contents to a broad mathematical audience and should meet high standards for clarity as well as mathematical content.

Research Reports

These are brief, timely reports on important mathematical developments. They are normally solicited and often written by a disinterested expert.

Book Reviews

Book Reviews are accepted for publication by invitation only. Unsolicited manuscripts will not be considered.

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Copies of the paper should be sent directly to the appropriate Editor, and the author should keep one copy. For Research-Expository Papers, two copies of the manuscript should be submitted to Professor Richard S. Palais, Department of Mathematics, Brandeis University, Waltham, MA 02154-9110. For Research Reports, four copies of the manuscript should be submitted to Professor Haynes R. Miller, Room 2-237, Massachusetts Institute of Technology, Cambridge, MA 02139-4307. Research Reports can also be submitted electronically in $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{T}\mathcal{E}\mathcal{X}$ or $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ to `bams@math.mit.edu`.

Any inquiries concerning a paper that has been accepted for publication should be sent directly to the Editorial Department, American Mathematical Society, P. O. Box 6248, Providence, RI 02940-6248.

Research-Expository Papers (Surveys)

This section is intended for reasonably broad expository surveys of a currently active area of mathematical research. To stress this fact, the name of the section will be changed from “Research-Expository Papers” to “Research-Expository Surveys”. The level of exposition is expected to be such that a graduate student—or a research mathematician from a remote area—will be able to read an article in order to get an overview of a subject. A well-written article will include motivating problems and examples, some indication of the historical development of the subject, and of course the results and open problems that make it an interesting and exciting area of mathematics. In most cases proofs should be at most briefly sketched, and there should be a good bibliography whose main aim should be helping those wishing to pursue the subject further. Usually Research-Expository Surveys will be at most 40 pages long.

Certain of the Society’s Lecture Series, including the Gibb’s Lectures, Colloquium Lectures, and Progress in Mathematics Lectures, traditionally appear in the Research-Expository Surveys, and those invited to give these lectures are informed of this tradition and of the above guidelines. Research-Expository Surveys are also frequently solicited by the Editorial Board, but unsolicited manuscripts are also encouraged; in particular, those invited to give invited hour addresses at meetings of the Society should consider writing up their lecture in a manner that meets the requirements of the preceding paragraph and submitting their manuscripts for consideration by the Editorial Board for the Research-Expository Surveys.

Research Reports

In August 1993, the Council of the AMS voted to replace the Research Announcements with a new category of articles, to be called Research Reports. The first Research Reports are expected to be published in the July 1995 issue. The *Bulletin* stopped accepting submissions of Research Announcements on January 31, 1994. The Editor for Research Announcements will continue to serve as Editor for Research Reports.

A Research Report is a timely, short (4–8 pages) report on a recent accomplishment in mathematical research. It should be written so as to be understandable by mathematicians who are not experts in the subject matter of the Report. The context giving significance to the research being reported on should be made clear, and the consequences or potential consequences should be described. Usually only the barest hint of the methods of proof should be given, although elements of the proof which are novel should be included. In any case, references should be given so that an interested reader can find the details. It is expected that Research Reports will frequently be written by specialists other than the individuals immediately involved in the research. Approximately twenty-four Reports will be published each year.

Research Reports are normally solicited by the Editor for Research Reports and the Board of Associate Editors. They cordially invite suggestions for topics and reporters. Unsolicited manuscripts, submitted to the Editor for Research Reports, will also be considered.

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