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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.

Book Reviews

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

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from it. A list of the numbers may be found in the annual index of *Mathematical Reviews*, published with the December issue starting in 1990, as well as from the electronic service e-MATH [telnet e-MATH.ams.org (or telnet 130.44.1.100). Login and password are e-math.] For journal abbreviations used in bibliographies, see the list of serials in the latest *Mathematical Reviews* annual index. Authors are encouraged to supply electronic addresses when available. These will be printed after the postal address at the end of each article.

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Remarks on Research Announcements

The circulation of the *Bulletin* is larger by an order of magnitude than that of most research mathematics journals; it is received by essentially every member of the Society. Space is limited to around 40 Announcements each year. The following facts largely determine the qualities looked for in an Announcement:

The results should be, roughly speaking, among the 40 most significant or interesting achievements in mathematics in the year. The paper should contain background material for nonexperts that indicates why the results are significant and interesting.

Address the paper to as wide an audience as possible, not just to experts. Strive for clarity and precision. Avoid jargon and introduce the terminology necessary to understand the main results. If space considerations prevent a full development, delineate clearly what is not being explained and provide references. The proof sketch can be more technical.

Ask a colleague to review your manuscript before you submit it. Even better, ask two colleagues, one whose work is close to yours, one whose work is farther away. (If you can't get two people you know to read your work before it is published, how many will want to read it after?) Ask for suggestions on how to improve the readability.

An abstract and the 1991 *Mathematics Subject Classification* are required. Papers submitted without these will be delayed.

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 will be published in the January 1995 issue. The *Bulletin* will stop accepting submissions of Research Announcements on January 31, 1994, though papers submitted as Research Announcements may be considered for publication as Research Reports. The present Editor for Research Announcements will continue to serve as Editor for Research Reports.

A Research Report is a timely, short (four to eight 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 author should make clear the context of the research that lends it significance and describe its consequences or potential consequences. 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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