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Research-Expository Surveys

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Research Reports

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Book Reviews

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This journal is devoted to articles of the following types:

Research-Expository Surveys

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 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.

Submission information. See **Information for Authors** at the end of this issue.

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Information for Authors

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For Research-Expository Surveys and Research Reports, the first page must consist of a *descriptive title*, followed by an *abstract* that summarizes the article in language suitable for workers in the general field (algebra, analysis, etc.). The *descriptive title* should be short but informative; useless or vague phrases such as “some remarks about” or “concerning” should be avoided. The *abstract* should be a brief technical description of the new material. Then, for Research Reports there should be an introductory section addressed to nonexperts describing the motivation, background, and significance of the results announced. Following the statement of results, there should be a sketch of proofs that may be addressed to

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Research-Expository 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 has been 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 Gibbs 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

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.

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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Efim Zelmanov
Robert Zimmer

CONTENTS

Volume 2, Number 3, 1996

L. Brandolini, M. Rigoli, and A.G. Setti,
*Positive solutions of Yamabe-type
equations on the Heisenberg group*

Marek Rychlik,
The equichordal point problem

Anatole Katok and Ralf J. Spatzier,
*Non-stationary normal forms and
rigidity of group actions*

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RESEARCH-EXPOSITORY SURVEYS

Mary Lynn Reed, Algebraic structure of genetic inheritance 107
 A. Carbone and S. Semmes, Making proofs without Modus Ponens: An
 introduction to the combinatorics and complexity of cut elimination . 131

RESEARCH REPORTS

Suhyoung Choi and William M. Goldman, The classification of real
 projective structures on compact surfaces 161

BOOK REVIEWS

Cornelius Greither (Reviewer), Multiplicative Galois module structure by
 Alfred Weiss 173
 Bernd Ulrich (Reviewer), Arithmetic of blowup algebras by Wolmer V.
 Vasconcelos 177
 S. J. Patterson (Reviewer), Selberg zeta and theta functions, A differential
 operator approach by U. Bunke and M. Olbrich 183
 John Urbas (Reviewer), Fully nonlinear elliptic equations by Luis A.
 Caffarelli and Xavier Cabré 187
 John R. Cannon (Reviewer), Linear operators and ill-posed problems by
 M. M. Lavrentév and L. Ya. Savelév 193
 Jean Mawhin (Reviewer), Generalized topological degree and semilinear
 equations by W. V. Petryshyn 197
 D. L. Russell (Reviewer), Exact controllability and stabilization; the
 multiplier method by V. Komornik 203
 Wendell H. Fleming (Reviewer), Discrete-time Markov control processes:
 Basic optimality criteria by O. Hernández-Lerma and J. B. Lassere .. 205
 Kenji Matsuki, Erratum to "The adjunction theory of complex projective
 varieties" 207
 Erratum to "Random series and stochastic integrals: Single and multiple"
 and "Diagram geometries" 209

