

THE EDINBURGH MATHEMATICAL SOCIETY

The Edinburgh Mathematical Society was instituted in 1883 for "the promotion and extension of Mathematical Science, Pure and Applied".

Members may subscribe to the *Proceedings* at a reduced rate. Further information about membership can be obtained from the Secretary.

The Society's address is

The Edinburgh Mathematical Society
James Clerk Maxwell Building
The King's Buildings
Edinburgh EH9 3JZ

Submission of papers

Papers to be considered for publication should be sent to the Secretary or to an Editor. Manuscripts (2 copies) should be typewritten on A4 paper with double spacing and generous margins. The style and arrangement should conform to current practice in the *Proceedings*. Each manuscript should contain a short abstract of not more than 200 words and also a primary classification number from the American Mathematical Society's 1990 Mathematics Subject Classification Scheme. References, including titles of papers, should be given in the form adopted by *Mathematical Reviews*, footnotes being avoided if possible. Figures should be separated from the text and lettered, ready for photographic reduction; their intended location should be clearly indicated. Manuscripts which are not suitable for submission to the printer will not be accepted. Authors are advised to retain a copy of any material submitted as the Society cannot accept responsibility for any loss.

A proof is supplied once. Authors are particularly requested to correct and return the proof promptly. Excessive corrections may be charged to authors. Fifty free offprints, and additional copies at cost, will be supplied if ordered on a form returned with the proof.

Addresses of editors

C. M. Campbell
Mathematical Institute
University of St Andrews
North Haugh
St Andrews KY16 9SS

A. M. Etheridge
Department of Statistics
University of Oxford
1 South Parks Road
Oxford OX1 3TG

C. Maclachlan
Department of Mathematical Sciences
University of Aberdeen
Edward Wright Building
Dunbar Street
Aberdeen AB24 3UE

L. O'Carroll
Department of Mathematics and Statistics
The University of Edinburgh
James Clerk Maxwell Building
The King's Buildings
Edinburgh EH9 3JZ

R. W. K. Odoni
Department of Mathematics
University of Glasgow
University Gardens
Glasgow G12 8QW

S. C. Power
Department of Mathematics
University of Lancaster
Lancaster LA1 4YF

D. M. Sloan
Department of Mathematics
University of Strathclyde
Livingstone Tower
Richmond Street
Glasgow G1 1XH

B. Straughan
Department of Mathematics
University of Glasgow
University Gardens
Glasgow G12 8QW

I. Tweddle
Department of Mathematics
University of Strathclyde
Livingstone Tower
Richmond Street
Glasgow G1 1XH

Proceedings of the Edinburgh Mathematical Society

VOLUME 41 (SERIES II), PART 3

OCTOBER 1998

Matrix d.g. near-rings <i>V Tharmaratnam</i>	433
Concentration of the error between a function and its polynomial of best uniform approximation <i>Maurice Hasson</i>	447
Algebraic orders and chordal limit algebras <i>Allan P. Donsig</i>	465
On the capability of groups <i>Graham Ellis</i>	487
Fractional part sums and lattice points <i>Werner Georg Nowak</i>	497
On Cohen-Macaulay and Gorenstein simplicial affine semigroups <i>J. C. Rosales and Pedro A. García-Sánchez</i>	517
Monoid gradings on algebras and the Cartan determinant conjecture <i>Manuel Saorín</i>	539
Hausdorff-Young inequalities for functions in Bergman spaces on tube domains <i>David Bekollé and Aline Bonami</i>	553
Finite groups which are products of pairwise totally permutable subgroups <i>A. Ballester-Bolinches, M. C. Pedraza-Aguilera and M. D. Pérez-Ramos</i>	567
A Prüfer approach to half-linear Sturm-Liouville problems <i>Patrick J. Browne</i>	573
Maximal operators and <i>B.M.O.</i> for Banach lattices <i>J. García-Cuerva, R. A. Macías and J. L. Torrea</i>	585
Canonical bases and standard monomials <i>R. J. Marsh</i>	611
Continuity of Lie derivations on Banach algebras <i>M. I. Berenguer and A. R. Villena</i>	625
Obituary: Professor W. L. Edge	631