

PROCEEDINGS

OF THE

EDINBURGH MATHEMATICAL SOCIETY

CONTENTS

EDMUND F. ROBERTSON AND COLIN M. CAMPBELL: Groups-St Andrews 1985	<i>page</i> 1
ZVI ARAD AND ELSA FISMAN: An analogy between products of two conjugacy classes and products of two irreducible characters in finite groups	<i>page</i> 7
HELmut BEHR: Finite presentability of arithmetic groups over global function fields	<i>page</i> 23
ARIE BIALOSTOCKI: On the other p^xq^y theorem of Burnside	<i>page</i> 41
CHENG KAI-NAH: Finite groups admitting fixed point free automorphisms of order pq	<i>page</i> 51
I. M. CHISWELL: Length functions and pregroups	<i>page</i> 57
SONIA P. COELHO: A note on central idempotents in group rings	<i>page</i> 69
A. GARDINER AND CHERYL E. PRAEGER: Distance-transitive graphs of valency five	<i>page</i> 73
J. R. HOWSE: A sufficient condition for the second derived factor group to be finite	<i>page</i> 83
D. L. JOHNSON: The nonabelian tensor square of a finite split metacyclic group	<i>page</i> 91
GARETH A. JONES: Some maximal normal subgroups of the modular group	<i>page</i> 97
A. M. MACBEATH: Superimprimitive 2-generator finite groups	<i>page</i> 103
O. MACEDOŃSKA: When endomorphisms of G inducing automorphisms of G/V are automorphisms	<i>page</i> 115
A. MANDEL AND J. Z. GONÇALVES: Construction of open sets of free k -tuples of matrices	<i>page</i> 121
J. McCOOL: On the Magnus-Smelkin embedding	<i>page</i> 133
DAVID SINGERMAN: $PSL(2, q)$ as an image of the extended modular group with applications to group actions on surfaces	<i>page</i> 143
ROBERT W. VAN DER WAALL: On Clifford's theorem and ramification indices for symplectic modules over a finite field	<i>page</i> 153

PROCEEDINGS

OF THE

EDINBURGH MATHEMATICAL SOCIETY

EDITORS

T. S. BLYTH
University of St Andrews

T. A. GILLESPIE
University of Edinburgh

C. J. SHADDOCK
University of Edinburgh

C. M. CAMPBELL
University of St Andrews

J. R. HUBBUCK
University of Aberdeen

B. D. SLEEMAN
University of Dundee

CONSULTING EDITORS

Sir MICHAEL ATIYAH, F.R.S.
Mathematical Institute
24–29 St Giles
Oxford OX1 3LB

G. BROWN
Department of Pure Mathematics
University of New South Wales
P.O. Box 1
New South Wales 2033
Australia

D. L. COLTON
Math. Sci. Department
University of Delaware
Newark DE 19711
U.S.A.

P. A. FILLMORE
Department of Mathematics,
Statistics and Computing Science
Dalhousie University
Halifax, Nova Scotia
Canada B3H 3J5

C. M. GORDON
Department of Mathematics
University of Texas at Austin
Austin, Texas 78712
U.S.A.

A. M. MACBEATH
Department of Mathematics
and Statistics
University of Pittsburgh
Pittsburgh PA 15260
U.S.A.

J. B. McLEOD
Wadham College
Oxford OX1 3PN

C. St. J. A. NASH-WILLIAMS
Department of Mathematics
University of Reading
Whiteknights
Reading RG6 2AX

D. J. S. ROBINSON
Department of Mathematics
University of Illinois at Urbana
Urbana, IL 61801
U.S.A.

C. A. STUART
Département de Mathématiques
MA (ECUBLENS)
CH-1015 Lausanne
Switzerland