

Contents

Introduction	vii
Addresses of registered participants	ix
Addresses of non-participating authors	xiii
Programme of lectures	xiv
Conference photograph and key	xvi
<i>C. M. Campbell, G. Havas, S. A. Linton and E. F. Robertson</i>	
Symmetric presentations and orthogonal groups	1
<i>F. Celler and C. R. Leedham-Green</i>	
A constructive recognition algorithm for the special linear group	11
<i>J. H. Conway and C. S. Simons</i>	
Relations in $\mathbf{M}_{666}$	27
<i>R. T. Curtis</i>	
A survey of symmetric generation of sporadic simple groups	39
<i>G. Hiss</i>	
Harish-Chandra theory, q -Schur algebras, and decomposition matrices for finite classical groups	58
<i>D. F. Holt</i>	
The Meataxe as a tool in computational group theory	74
<i>J. F. Humphreys</i>	
Branching rules for modular projective representations of the symmetric groups	82
<i>G. A. Jones</i>	
Characters and surfaces: a survey	90
<i>W. Kimmerle</i>	
On the characterization of finite groups by characters	119
<i>A. S. Kondratiev</i>	
Finite linear groups of small degree	139
<i>W. Lempken, C. Parker and P. Rowley</i>	
Minimal parabolic systems for the symmetric and alternating groups	149
<i>M. W. Liebeck and A. Shalev</i>	
Probabilistic methods in the generation of finite simple groups	163
<i>K. Lux and M. Wiegmann</i>	
Condensing tensor product modules	174
<i>V. D. Mazurov and V. I. Zenkov</i>	
Intersections of Sylow subgroups in finite groups	191

<i>S. P. Norton</i>	
Anatomy of the Monster. I	198
<i>R. A. Parker</i>	
An integral 'Meat-axe'	215
<i>W. Plesken</i>	
Finite rational matrix groups: a survey	229
<i>P. Rowley</i>	
Chamber graphs of sporadic group geometries	249
<i>R. A. Wilson</i>	
An Atlas of sporadic group representations	261
<i>F. Zara</i>	
Presentations of reductive Fischer groups	274
<i>J. H. Conway, R. T. Curtis and R. A. Wilson</i>	
A brief history of the ATLAS	288