

CONTENTS OF VOLUME 300

Number 1, June 1, 2006

Special issue celebrating the 65th birthday of Charles Leedham-Green	1
Derek Holt and Eamonn O'Brien	
Normally monomial p-groups Avinoam Mann	2
An arithmetic theorem related to groups of bounded nilpotency class	10
Thomas W. Müller	10
Recognising nilpotent groups	16
A.R. Camina and R.D. Camina	10
On a recent theorem of M. Shirvani on subgroups of division algebras	25
B.A.F. Wehrfritz	
Transfer kernels for finite groups	35
K.W. Gruenberg and A. Weiss	
Highly transitive imprimitivities	44
Marston Conder and Vaughan Jones	
The $F^{a,b,c}$ conjecture is true, II	57
George Havas, Edmund F. Robertson, and Dale C. Sutherland	
Embedding 2-groups in groups generated by involutions	73
Nigel Boston	
The MEAT-AXE and f -cyclic matrices	77
S.P. Glasby	
Automorphism groups of 2-groups	91
Bettina Eick	404
An example of an end-type action on a Λ -tree	102
I.M. Chiswell	
Computing subgroup presentations, using the coherence arguments of McCammond and Wise	109
Oliver Payne and Sarah Rees	109
Generators and relations for matrix algebras	134
Jon F. Carlson and Graham Matthews	134
The nilpotency class of <i>p</i> -groups in which subgroups have few conjugates	160
Giovanni Cutolo, Howard Smith, and James Wiegold	100
Recognising the Suzuki groups in their natural representations	171
Henrik Bäärnhielm	
A computer-assisted analysis of some matrix groups	199
Derek F. Holt and E.A. O'Brien	
Computing conjugacy class representatives in permutation groups	213
John J. Cannon and Derek F. Holt	

Representations, commutative algebra, and Hurwitz groups W. Plesken and D. Robertz	223
Is there a McLaughlin geometry? Leonard H. Soicher	248
Fast constructive recognition of black box orthogonal groups Peter A. Brooksbank and William M. Kantor	256
On the frequency of permutations containing a long cycle Alice C. Niemeyer and Cheryl E. Praeger	289
Computing the soluble radical of a permutation group W.R. Unger	305
Towards a finite presentation for the Nottingham group Susan McKay	316
Irreducible (2, 3, 7)-subgroups of $\operatorname{PGL}_n(\mathbb{F})$, $n \leq 7$ M. Chiara Tamburini and M. Vsemirnov	339
Thompson-like characterizations of the solvable radical Robert Guralnick, Boris Kunyavskiĭ, Eugene Plotkin, and Aner Shalev	363
Matrix representations for torsion-free nilpotent groups by Deep Thought Werner Nickel	376
The class-breadth conjecture revisited Bettina Eick, M.F. Newman, and E.A. O'Brien	384
Number 2, June 15, 2006	
Special issue celebrating the 70th birthday of Bernd Fischer Michael Aschbacher, Gerhard Röhrle, and Franz Timmesfeld	395
Projective planes, loops, and groups Michael Aschbacher	396
Root filtration spaces from Lie algebras and abstract root groups Arjeh M. Cohen and Gábor Ivanyos	433
The geometry of <i>k</i> -transvection groups Hans Cuypers	455
Automorphisms and fusion in finite groups Paul Flavell	472
Centrally large subgroups of finite <i>p</i> -groups George Glauberman	480
On the commuting probability in finite groups Robert M. Guralnick and Geoffrey R. Robinson	509
A characterization of the full wreath product J.I. Hall	529
The 2-modular characters of the Fischer group Fi ₂₃ Gerhard Hiss, Max Neunhöffer, and Felix Noeske	555
Constructing the Monster amalgam A.A. Ivanov	571

A $\{2,3\}$ -local characterization of the groups $A_{12}, Sp_8(2), F_4(2)$ and F_5 Inna Korchagina and Richard Lyons	590
On Weierstrass points of Hurwitz curves K. Magaard and H. Völklein	647
Fast-einfache Gruppen mit langen Bahnen in absolut irreduzibler Operation Gunter Malle	655
Differential equations and finite groups B.H. Matzat	673
The center conjecture for non-exceptional buildings Bernhard Mühlherr and Jacques Tits	687
A 3-local characterization of $U_6(2)$ and Fi_{22} Chris Parker	707
Weakly closed unipotent subgroups in Chevalley groups Robert Guralnick and Gerhard Röhrle	729
The Local $C(G, T)$ Theorem D. Bundy, N. Hebbinghaus, and B. Stellmacher	741
On groups of local characteristic <i>p</i> G. Stroth	790
Steinberg-type presentation for Lie-type groups F.G. Timmesfeld	806
Moufang sets from groups of mixed type Bernhard Mühlherr and Hendrik van Maldeghem	820
Explicit representations of maximal subgroups of the Monster John N. Bray and Robert A. Wilson	834
Author index for volume 300	858