

# Table of Contents

Preface	vii
List of Participants	x
A. Adem and N. Naffah On the Cohomology of $SL_2(\mathbb{Z}[1/p])$	1
D. J. Benson Cohomology of Sporadic Groups, Finite Loop Spaces, and the Dickson Invariants	10
R. Bieri and R. Geoghegan Kernels of Actions on Non-positively Curved Spaces	24
R. M. Bryant Cyclic Groups Acting on Free Lie Algebras	39
J. F. Carlson Cohomology, Representations and Quotient Categories of Modules	45
I.M. Chiswell Protrees and $\Lambda$ -trees	74
J. Cornick Homological Techniques for Strongly Graded Rings: A Survey	88
M. W. Davis Buildings are $CAT(0)$	108
W. Dicks and I. J. Leary On Subgroups of Coxeter Groups	124

H.H. Glover, G. Mislin and S.N. Voon The $p$ -primary Farrell Cohomology of $\text{Out}(F_{p-1})$	161
R.I. Grigorchuk On Tychonoff Groups	170
D. L. Johnson Word Growth of Coxeter Groups	188
F.E.A. Johnson Poly-surface Groups	190
P. A. Linnell Analytic Versions of the Zero Divisor Conjecture	209
H. Meinert On the Geometric Invariants of Soluble Groups of Finite Prüfer Rank	249
K.V. Mikhajlovskii and A.Yu. Ol'shanskii Some Constructions Relating to Hyperbolic Groups	263
P. M. Neumann and P. J. Rowley Free Actions of Abelian Groups on Groups	291
J. S. Wilson Finitely Presented Soluble Groups	296