

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

LONDON MATHEMATICAL SOCIETY LECTURE NOTE SERIES

Managing Editor: Professor M. Reid, Mathematics Institute, University of Warwick, Coventry CV4 7AL, United Kingdom

The titles below are available from booksellers, or from Cambridge University Press at www.cambridge.org/mathematics

- 216 Stochastic partial differential equations, A. ETHERIDGE (ed)
- 217 Quadratic forms with applications to algebraic geometry and topology, A. PFISTER
- 218 Surveys in combinatorics, 1995, P. ROWLINSON (ed)
- 220 Algebraic set theory, A. JOYAL & I. MOERDIJK
- 221 Harmonic approximation, S.J. GARDINER
- 222 Advances in linear logic, J.-Y. GIRARD, Y. LAFONT & L. REGNIER (eds)
- 223 Analytic semigroups and semilinear initial boundary value problems, K. TAIRA
- 224 Computability, enumerability, unsolvability, S.B. COOPER, T.A. SLAMAN & S.S. WAINER (eds)
- 225 A mathematical introduction to string theory, S. ALBEVERIO *et al*
- 226 Novikov conjectures, index theorems and rigidity I, S.C. FERRY, A. RANICKI & J. ROSENBERG (eds)
- 227 Novikov conjectures, index theorems and rigidity II, S.C. FERRY, A. RANICKI & J. ROSENBERG (eds)
- 228 Ergodic theory of Z^d actions, M. POLLICOTT & K. SCHMIDT (eds)
- 229 Ergodicity for infinite dimensional systems, G. DA PRATO & J. ZABCZYK
- 230 Prolegomena to a middlebrow arithmetic of curves of genus 2, J.W.S. CASSELS & E.V. FLYNN
- 231 Semigroup theory and its applications, K.H. HOFMANN & M.W. MISLOVE (eds)
- 232 The descriptive set theory of Polish group actions, H. BECKER & A.S. KECHRIS
- 233 Finite fields and applications, S. COHEN & H. NIEDERREITER (eds)
- 234 Introduction to subfactors, V. JONES & V.S. SUNDER
- 235 Number theory: Séminaire de théorie des nombres de Paris 1993–94, S. DAVID (ed)
- 236 The James forest, H. FETTER & B.G. DE BUEN
- 237 Sieve methods, exponential sums, and their applications in number theory, G.R.H. GREAVES *et al* (eds)
- 238 Representation theory and algebraic geometry, A. MARTSINKOVSKÝ & G. TODOROV (eds)
- 240 Stable groups, F.O. WAGNER
- 241 Surveys in combinatorics, 1997, R.A. BAILEY (ed)
- 242 Geometric Galois actions I, L. SCHNEPS & P. LOCHAK (eds)
- 243 Geometric Galois actions II, L. SCHNEPS & P. LOCHAK (eds)
- 244 Model theory of groups and automorphism groups, D.M. EVANS (ed)
- 245 Geometry, combinatorial designs and related structures, J.W.P. HIRSCHFELD *et al* (eds)
- 246 p -Automorphisms of finite p -groups, E.I. KHUKHRO
- 247 Analytic number theory, Y. MOTOHASHI (ed)
- 248 Tame topology and O-minimal structures, L. VAN DEN DRIES
- 249 The atlas of finite groups - ten years on, R.T. CURTIS & R.A. WILSON (eds)
- 250 Characters and blocks of finite groups, G. NAVARRO
- 251 Gröbner bases and applications, B. BUCHBERGER & F. WINKLER (eds)
- 252 Geometry and cohomology in group theory, P.H. KROPHOLLER, G.A. NIBLO & R. STÖHR (eds)
- 253 The q -Schur algebra, S. DONKIN
- 254 Galois representations in arithmetic algebraic geometry, A.J. SCHOLL & R.L. TAYLOR (eds)
- 255 Symmetries and integrability of difference equations, P.A. CLARKSON & F.W. NIJHOFF (eds)
- 256 Aspects of Galois theory, H. VÖLKLEIN, J.G. THOMPSON, D. HARBATER & P. MÜLLER (eds)
- 257 An introduction to noncommutative differential geometry and its physical applications (2nd edition), J. MADORE
- 258 Sets and proofs, S.B. COOPER & J.K. TRUSS (eds)
- 259 Models and computability, S.B. COOPER & J. TRUSS (eds)
- 260 Groups St Andrews 1997 in Bath I, C.M. CAMPBELL *et al* (eds)
- 261 Groups St Andrews 1997 in Bath II, C.M. CAMPBELL *et al* (eds)
- 262 Analysis and logic, C.W. HENSON, J. IOVINO, A.S. KECHRIS & E. ODELL
- 263 Singularity theory, W. BRUCE & D. MOND (eds)
- 264 New trends in algebraic geometry, K. HULEK, F. CATANESE, C. PETERS & M. REID (eds)
- 265 Elliptic curves in cryptography, I. BLAKE, G. SEROUSSI & N. SMART
- 267 Surveys in combinatorics, 1999, J.D. LAMB & D.A. PREECE (eds)
- 268 Spectral asymptotics in the semi-classical limit, M. DIMASSI & J. SJÖSTRAND
- 269 Ergodic theory and topological dynamics of group actions on homogeneous spaces, M.B. BEKKA & M. MAYER
- 271 Singular perturbations of differential operators, S. ALBEVERIO & P. KURASOV
- 272 Character theory for the odd order theorem, T. PETERfalvi. Translated by R. SANDLING
- 273 Spectral theory and geometry, E.B. DAVIES & Y. SAFAROV (eds)
- 274 The Mandelbrot set, theme and variations, T. LEI (ed)
- 275 Descriptive set theory and dynamical systems, M. FOREMAN, A.S. KECHRIS, A. LOUVEAU & B. WEISS (eds)
- 276 Singularities of plane curves, E. CASAS-ALVERO
- 277 Computational and geometric aspects of modern algebra, M. ATKINSON *et al* (eds)
- 278 Global attractors in abstract parabolic problems, J.W. CHOLEWA & T. DLOTKO
- 279 Topics in symbolic dynamics and applications, F. BLANCHARD, A. MAASS & A. NOGUEIRA (eds)
- 280 Characters and automorphism groups of compact Riemann surfaces, T. BREUER
- 281 Explicit birational geometry of 3-folds, A. CORTI & M. REID (eds)
- 282 Auslander-Buchweitz approximations of equivariant modules, M. HASHIMOTO
- 283 Nonlinear elasticity, Y.B. FU & R.W. OGDEN (eds)
- 284 Foundations of computational mathematics, R. DEVORE, A. ISERLES & E. SÜLI (eds)
- 285 Rational points on curves over finite fields, H. NIEDERREITER & C. XING
- 286 Clifford algebras and spinors (2nd edition), P. LOUNESTO
- 287 Topics on Riemann surfaces and Fuchsian groups, E. Bujalance, A.F. COSTA & E. MARTÍNEZ (eds)
- 288 Surveys in combinatorics, 2001, J.W.P. HIRSCHFELD (ed)
- 289 Aspects of Sobolev-type inequalities, L. SALOFF-COSTE
- 290 Quantum groups and Lie theory, A. PRESSLEY (ed)
- 291 Tits buildings and the model theory of groups, K. TENT (ed)

- 292 A quantum groups primer, S. MAJID
 293 Second order partial differential equations in Hilbert spaces, G. DA PRATO & J. ZABCZYK
 294 Introduction to operator space theory, G. PISIER
 295 Geometry and integrability, L. MASON & Y. NUTKU (eds)
 296 Lectures on invariant theory, I. DOLGACHEV
 297 The homotopy category of simply connected 4-manifolds, H.-J. BAUES
 298 Higher operads, higher categories, T. LEINSTER (ed)
 299 Kleinian groups and hyperbolic 3-manifolds, Y. KOMORI, V. MARKOVIC & C. SERIES (eds)
 300 Introduction to Möbius differential geometry, U. HERTRICH-JEROMIN
 301 Stable modules and the D(2)-problem, F.E.A. JOHNSON
 302 Discrete and continuous nonlinear Schrödinger systems, M.J. ABLOWITZ, B. PRINARI & A.D. TRUBATCH
 303 Number theory and algebraic geometry, M. REID & A. SKOROBATOV (eds)
 304 Groups St Andrews 2001 in Oxford I, C.M. CAMPBELL, E.F. ROBERTSON & G.C. SMITH (eds)
 305 Groups St Andrews 2001 in Oxford II, C.M. CAMPBELL, E.F. ROBERTSON & G.C. SMITH (eds)
 306 Geometric mechanics and symmetry, J. MONTALDI & T. RATIU (eds)
 307 Surveys in combinatorics 2003, C.D. WENSLEY (ed.)
 308 Topology, geometry and quantum field theory, U.L. TILLMANN (ed)
 309 Corings and comodules, T. BRZEZINSKI & R. WISBAUER
 310 Topics in dynamics and ergodic theory, S. BEZUGLYI & S. KOLYADA (eds)
 311 Groups: topological, combinatorial and arithmetic aspects, T.W. MÜLLER (ed)
 312 Foundations of computational mathematics, Minneapolis 2002, F. CUCKER *et al* (eds)
 313 Transcendental aspects of algebraic cycles, S. MÜLLER-STACH & C. PETERS (eds)
 314 Spectral generalizations of line graphs, D. CVETKOVIĆ, P. ROWLINSON & S. SIMIĆ
 315 Structured ring spectra, A. BAKER & B. RICHTER (eds)
 316 Linear logic in computer science, T. EHRHARD, P. RUET, J.-Y. GIRARD & P. SCOTT (eds)
 317 Advances in elliptic curve cryptography, I.F. BLAKE, G. SEROUSSI & N.P. SMART (eds)
 318 Perturbation of the boundary in boundary-value problems of partial differential equations, D. HENRY
 319 Double affine Hecke algebras, I. CHEREDNIK
 320 L-functions and Galois representations, D. BURNS, K. BUZZARD & J. NEKOVÁŘ (eds)
 321 Surveys in modern mathematics, V. PRASOLOV & Y. ILYASHENKO (eds)
 322 Recent perspectives in random matrix theory and number theory, F. MEZZADRI & N.C. SNAITH (eds)
 323 Poisson geometry, deformation quantisation and group representations, S. GUTT *et al* (eds)
 324 Singularities and computer algebra, C. LOSSEN & G. PFISTER (eds)
 325 Lectures on the Ricci flow, P. TOPPING
 326 Modular representations of finite groups of Lie type, J.E. HUMPHREYS
 327 Surveys in combinatorics 2005, B.S. WEBB (ed)
 328 Fundamentals of hyperbolic manifolds, R. CANARY, D. EPSTEIN & A. MARDEN (eds)
 329 Spaces of Kleinian groups, Y. MINSKY, M. SAKUMA & C. SERIES (eds)
 330 Noncommutative localization in algebra and topology, A. RANICKI (ed)
 331 Foundations of computational mathematics, Santander 2005, L.M PARDO, A. PINKUS, E. SÜLI & M.J. TODD (eds)
 332 Handbook of tilting theory, L. ANGELERI HÜGEL, D. HAPPEL & H. KRAUSE (eds)
 333 Synthetic differential geometry (2nd edition), A. KOCK
 334 The Navier-Stokes equations, N. RILEY & P. DRAZIN
 335 Lectures on the combinatorics of free probability, A. NICA & R. SPEICHER
 336 Integral closure of ideals, rings, and modules, I. SWANSON & C. HUNEKE
 337 Methods in Banach space theory, J.M.F. CASTILLO & W.B. JOHNSON (eds)
 338 Surveys in geometry and number theory, N. YOUNG (ed)
 339 Groups St Andrews 2005 I, C.M. CAMPBELL, M.R. QUICK, E.F. ROBERTSON & G.C. SMITH (eds)
 340 Groups St Andrews 2005 II, C.M. CAMPBELL, M.R. QUICK, E.F. ROBERTSON & G.C. SMITH (eds)
 341 Ranks of elliptic curves and random matrix theory, J.B. CONREY, D.W. FARMER, F. MEZZADRI & N.C. SNAITH (eds)
 342 Elliptic cohomology, H.R. MILLER & D.C. RAVENEL (eds)
 343 Algebraic cycles and motives I, J. NAGEL & C. PETERS (eds)
 344 Algebraic cycles and motives II, J. NAGEL & C. PETERS (eds)
 345 Algebraic and analytic geometry, A. NEEMAN
 346 Surveys in combinatorics 2007, A. HILTON & J. TALBOT (eds)
 347 Surveys in contemporary mathematics, N. YOUNG & Y. CHOI (eds)
 348 Transcendental dynamics and complex analysis, P.J. RIPPON & G.M. STALLARD (eds)
 349 Model theory with applications to algebra and analysis I, Z. CHATZIDAKIS, D. MACPHERSON, A. PILLAY & A. WILKIE (eds)
 350 Model theory with applications to algebra and analysis II, Z. CHATZIDAKIS, D. MACPHERSON, A. PILLAY & A. WILKIE (eds)
 351 Finite von Neumann algebras and masas, A.M. SINCLAIR & R.R. SMITH
 352 Number theory and polynomials, J. MCKEE & C. SMYTH (eds)
 353 Trends in stochastic analysis, J. BLATH, P. MÖRTERS & M. SCHEUTZOW (eds)
 354 Groups and analysis, K. TENT (ed)
 355 Non-equilibrium statistical mechanics and turbulence, J. CARDY, G. FALKOVICH & K. GAWEDZKI
 356 Elliptic curves and big Galois representations, D. DELBOURGO
 357 Algebraic theory of differential equations, M.A.H. MACCALLUM & A.V. MIKHAILOV (eds)
 358 Geometric and cohomological methods in group theory, M.R. BRIDSON, P.H. KROPHOLLER & I.J. LEARY (eds)
 359 Moduli spaces and vector bundles, L. BRAMBILA-PAZ, S.B. BRADLOW, O. GARCIA-PRADA & S. RAMANAN (eds)
 360 Zariski geometries, B. ZILBER
 361 Words: Notes on verbal width in groups, D. SEGAL
 362 Differential tensor algebras and their module categories, R. BAUTISTA, L. SALMERÓN & R. ZUAZUA
 363 Foundations of computational mathematics, Hong Kong 2008, M.J. TODD, F. CUCKER & A. PINKUS (eds)
 364 Partial differential equations and fluid mechanics, J.C. ROBINSON & J.L. RODRIGO (eds)
 365 Surveys in combinatorics 2009, S. HUCZYNSKA, J.D. MITCHELL & C.M. RONEY-DOUGAL (eds)
 366 Highly oscillatory problems, B. ENGQUIST, A. FOKAS, E. HAIRER & A. ISERLES (eds)
 367 Random matrices, High dimensional phenomena, G. BLOWER

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

Geometric and Cohomological Methods in Group Theory

Edited by

MARTIN R. BRIDSON

University of Oxford

PETER H. KROPHOLLER

University of Glasgow

IAN J. LEARY

The Ohio State University



CAMBRIDGE
UNIVERSITY PRESS

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)



CAMBRIDGE
UNIVERSITY PRESS

Shaftesbury Road, Cambridge CB2 8EA, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314–321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi – 110025, India

103 Penang Road, #05–06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment,
a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of
education, learning and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/9780521757249

© Cambridge University Press & Assessment 2009

This publication is in copyright. Subject to statutory exception and to the provisions
of relevant collective licensing agreements, no reproduction of any part may take
place without the written permission of Cambridge University Press & Assessment.

First published 2009

A catalogue record for this publication is available from the British Library

ISBN 978-0-521-75724-9 Paperback

Cambridge University Press & Assessment has no responsibility for the persistence
or accuracy of URLs for external or third-party internet websites referred to in this
publication and does not guarantee that any content on such websites is, or will
remain, accurate or appropriate.

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

Contents

Preface	vi
List of Participants	viii
M. Bestvina and M. Feighn Notes on Sela's work: Limit groups and Makanin-Razborov diagrams	1
H. Wilton Solutions to Bestvina & Feighn's exercises on limit groups	30
W. Lück L^2 -Invariants from the algebraic point of view	63
J. McCammond Constructing non-positively curved spaces and groups	162
L. Mosher Homology and dynamics in quasi-isometric rigidity of once-punctured mapping class groups	225
I. Chatterji and G. Mislin Hattori-Stallings trace and Euler characteristics for groups	256
P. H. Kropholler, P. Linnell and W. Lück Groups of small homological dimension and the Atiyah conjecture	272
V. P. Snaith Logarithms and assembly maps on $K_n(\mathbf{Z}_l[G])$	278
O. Talelli On complete resolutions	291
J. S. Wilson Structure theory for branch groups	306

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

Preface

More than eighty mathematicians from a variety of countries gathered in Durham in July 2003 for the London Mathematical Society's symposium on Geometry and Cohomology in Group Theory. This was the third symposium in an influential sequence of meetings that began with the meeting organised by Scott and Wall in 1976 and continued with the Kropholler–Stöhr meeting in 1994. As with these previous meetings, the 2003 Symposium attracted many of the world's leading researchers in this highly active field of mathematics.

The meeting came at an exciting time in the field, marked by a deepening of the fertile interactions with logic, analysis and large-scale geometry, as well as striking progress on classical problems at the heart of cohomological group theory. The symposium was built around six lecture courses exposing important aspects of these recent developments. The lecturers were A. Adem, W. Lück, J. McCammond, L. Mosher, R. Oliver, and Z. Sela.

The structure of this volume reflects that of the symposium: major survey articles form the backbone of the book, providing an extended tour through a selection of the most important trends in modern geometric group theory; these are supported by shorter research articles on diverse topics. All of the articles were refereed and we thank the referees for their hard work.

The articles corresponding to the minicourses are written in a style that researchers approaching the field for the first time should find inviting. In the first, Bestvina and Feighn present their own interpretation of Sela's theory of limit groups. (Important aspects of the theory are developed in the many exercises and an appendix by Wilton guides the reader through these.) Lück's essay on L^2 -methods in geometry, topology and group theory is crafted specifically for an algebraically-minded audience. Mosher's article on the quasi-isometric rigidity of certain mapping class groups begins with a general introduction to quasi-isometric rigidity. McCammond's account of non-positive curvature in group theory focuses on the explicit construction of examples, emphasising the utility of combinatorics and computational group theory in this regard.

We thank all of the authors who contributed to this volume and apologise to them for our tardiness in gathering their work into final form. We thank the London Mathematical Society and the Engineering and Physical Sciences Research Council of the United Kingdom for their continuing support of the Durham Symposia series. We recall with particular fondness the contribution

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

that the late Karl Gruenberg made to this symposium and its predecessors. We thank him and all of the participants of the 2003 symposium, each of whom made a contribution to its congenial atmosphere and mathematical success. We hope that some of the mathematical excitement generated at the meeting will be transmitted to the reader through these proceedings.

Martin R. Bridson, University of Oxford
Peter H. Kropholler, University of Glasgow
Ian J. Leary, The Ohio State University

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

List of Participants

A. Adem, Madison Wisconsin	adem@math.ubc.ca
M. Batty, Newcastle	Michael.Batty@ncl.ac.uk
M. Bestvina, Utah	bestvina@math.utah.edu
I. C. Borge, Oslo	ingerbo@math.uio.no
B. H. Bowditch, Southampton	B.H.Bowditch@warwick.ac.uk
T. Brady, Dublin	tom.brady@dcu.ie
M. R. Bridson, Imperial	Bridson@maths.ox.ac.uk
C. J. B. Brookes, Cambridge	C.J.B.Brookes@pmms.cam.ac.uk
J. Brookman, Edinburgh	brookman@maths.ed.ac.uk
R. Bryant, UMIST	bryant@umist.ac.uk
M. Burger, ETH Zürich	marc.burger@fim.math.ethz.ch
R. Charney, Ohio State	charney@brandeis.edu
I. L. Chatterji, Cornell	indira@math.ohio-state.edu
I. M. Chiswell, QM, London	I.M.Chiswell@qmul.ac.uk
D. Collins, QM, London	D.J.Collins@qmul.ac.uk
J. Crisp, Bourgogne	jcrisp@u-bourgogne.fr
M. W. Davis, Ohio State	mdavis@math.ohio-state.edu
A. Duncan, Newcastle	a.duncan@ncl.ac.uk
M. J. Dunwoody, Southampton	m.j.dunwoody@maths.soton.ac.uk
J. Dymara, Wroclaw	dymara@math.uni.wroc.pl
V. Easson, Oxford	V.Easson@dpmms.cam.ac.uk
B. Eckmann, ETH Zürich	beno.eckmann@math.ethz.ch
M. Feighn, Rutgers	feighn@rutgers.edu
K. Fujiwara, Tohoku	fujiwara@math.is.tohoku.ac.jp
I. Galvez, London Metropolitan	i.galvezicarrillo@londonmet.ac.uk

With affiliations at time of the Symposium and email addresses at time of writing.

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

R. Geoghegan, Binghamton	ross@math.binghamton.edu
K. Goda, Newcastle	k.m.goda@ncl.ac.uk
J. P. C. Greenlees	j.greenlees@sheffield.ac.uk
D. Groves, Oxford	groves@math.uic.edu
K. W. Gruenberg [✉] , QM, London	
I. Hambleton, McMaster	hambleton@mcmaster.ca
A. Harkins, Cambridge	a.harkins@pmms.cam.ac.uk
S. Hermiller, Nebraska	smh@math.unl.edu
J. Howie, Heriot-Watt	J.Howie@ma.hw.ac.uk
J. R. Hunton, Leicester	jrh7@mcs.le.ac.uk
A. Iozzi, ETH Zürich	iozzi@math.ethz.ch
T. Januszkiewicz, Wrocław	tjan@math.ohio-state.edu
D. Juan-Pineda, UNAM Morelia	daniel@matmor.unam.mx
A. Kirk, QM, London	A.Kirk@qmul.ac.uk
N. Kopteva, Heriot-Watt	natasha@math.nsc.ru
A. Korzeniewski, Edinburgh	A.J.Korzeniewski@sms.ed.ac.uk
P. H. Kropholler, Glasgow	P.H.Kropholler@maths.gla.ac.uk
C. Leedham-Green, QM, London	C.R.Leedham-Green@qmul.ac.uk
R. Levi, Aberdeen	ran@maths.abdn.ac.uk
I. J. Leary, Southampton	leary@math.ohio-state.edu
P. Linnell, Virginia Tech	linnell@math.vt.edu
W. Lück, Münster	wolfgang.lueck@math.uni-muenster.de
Z. Lykova, Newcastle	z.a.lykova@ncl.ac.uk
A. MacIntyre, Edinburgh	A.Macintyre@qmul.ac.uk
J. McCammond, UC Santa Barbara	jon.mccammond@math.ucsb.edu
J. Meier, Lafayette	meierj@lafayette.edu
G. Mislin, ETH Zürich	guido.mislin@math.ethz.ch
N. Monod, Chicago	nicolas.monod@epfl.ch
L. Mosher, Rutgers	mosher@andromeda.rutgers.edu
Th. Müller, QM, London	T.W.Muller@qmul.ac.uk
G. A. Niblo, Southampton	g.a.niblo@soton.ac.uk
B. E. A. Nucinkis, ETH Zürich	B.E.A.Nucinkis@soton.ac.uk
R. Oliver, Paris 13	bobol@math.univ-paris13.fr
A. Piggott, Oxford	adam.piggott@tufts.edu
S. J. Pride, Glasgow	sjp@maths.gla.ac.uk
F. Quinn, Virginia Tech	quinn@math.vt.edu
A. Ranicki, Edinburgh	a.ranicki@ed.ac.uk
S. Rees, Newcastle	Sarah.Rees@ncl.ac.uk
H. Reich, Münster	reich@math.uni-duesseldorf.de
A. Rhemtulla, Alberta	akbar@malindi.ualberta.ca
J. Rickard, Bristol	j.rickard@bristol.ac.uk
T. Riley, Yale	tim.riley@bris.ac.uk
C. Röver, Newcastle	claas.roever@nuigalway.ie
P. Rowley, UMIST	peter.rowley@umist.ac.uk

Cambridge University Press & Assessment

978-0-521-75724-9 — Geometric and Cohomological Methods in Group Theory

Edited by Martin R. Bridson , Peter H. Kropholler , Ian J. Leary

Frontmatter

[More Information](#)

x

M Saadetoglu, Southampton
M. Sageev, Technion
R. Sánchez-García, Southampton
M. Sapir, Vanderbilt
R. Sauer, Münster
Th. Schick, Göttingen
Z. Sela, Jerusalem
K. Shackleton, Southampton
V. P. Snaith, Southampton
R. Stöhr, UMIST
J. Świątkowski, Wrocław
O. Talelli, Athens
A. Tonks, London Metropolitan
M. Tweedale, Imperial
A. Valette, Neuchâtel
K. Vogtmann, Cornell
C. T. C. Wall, Liverpool
Th. Weigel, Milan - Bicocca
E. Wharton, Birmingham
G. Williams, UC Dublin
J. S. Wilson, Birmingham
R. Wilson, Birmingham
H. Wilton, Imperial

muge.saadetoglu@emu.edu.tr
sageevm@tx.technion.ac.il
sanchez@math.uni-duesseldorf.de
m.sapir@vanderbilt.edu
romansauer@member.ams.org
schick@uni-math.gwdg.de
zil@math.huji.ac.il
kjs2006@alumni.soton.ac.uk
V.Snaith@sheffield.ac.uk
Ralph.Stohr@umist.ac.uk
Jacek.Swiatkowski@math.uni.wroc.pl
otalelli@math.uoa.gr
a.tonks@londonmet.ac.uk
m.tweedale@bristol.ac.uk
alain.valette@unine.ch
vogtmann@math.cornell.edu
ctcw@liv.ac.uk
thomas.weigel@unimib.it
whartone@for.mat.bham.ac.uk
gwill@essex.ac.uk
wilsonjs@maths.ox.ac.uk
R.A.Wilson@qmul.ac.uk
henry.wilton@math.utexas.edu