

THE JOURNAL OF THE AUSTRALIAN MATHEMATICAL SOCIETY

VOLUME XXIII—(SERIES A)—PART 4

JUNE 1977

LEIF LARSEN	<i>The conjugacy problem and cyclic HNN constructions</i>	385
ELLIOTT EVANS	<i>The Boolean ring universal over a meet semilattice</i>	402
G. G. HAMEDANI	<i>Positive definite functionals in Banach spaces</i>	416
W. F. GROSS	<i>Dimension and finite closure</i>	421
LAURENS de HAAN	<i>On functions derived from regularly varying functions</i>	431
D. MCCARTHY and G. H. J. van REES	<i>Some results on a combinatorial problem of Cordes</i>	439
R. ANANTHARAMAN and K. M. GARG	<i>Some topological properties of vector measures and their integral maps</i>	453
M. F. HUTCHINSON	<i>Non-tall compact groups admit infinite Sidon sets</i>	467
JAMES E. JOSEPH	<i>On minimal Hausdorff spaces</i>	476
GÖRAN HÖGNÄS	<i>Random semigroup acts on a finite set</i>	481
A. M. BRUNNER, JAMES MCCOOL and ALFRED PIETROWSKI	<i>Groups which are an infinite cyclic extension of a unique base group</i>	499
BRAILEY SIMS	<i>On the existence of support maps with dense images</i>	504

Published for
THE AUSTRALIAN MATHEMATICAL SOCIETY

by Jerusalem Academic Press — Jerusalem — Israel

THE JOURNAL

The Journal of the Australian Mathematical Society began publication in 1959, and from 1975 has appeared in two series, Series A (Pure Mathematics) and Series B (Applied Mathematics). Information about Series B may be found on the inside back cover.

Series A, Pure Mathematics

Two volumes of four parts each are published annually, at a price of A\$36 per volume in 1977. Authors submitting papers for publication should send two copies of the typescript, each containing an abstract and an AMS (MOS) subject classification (1970), to the Editor or to an appropriate Associate Editor. Authors are asked to follow the instructions in the American Mathematical Society publication *A manual for authors of mathematical papers*, except as indicated on the back cover of this issue.

Editor of the Journal, Series A

J. B. Miller, Department of Mathematics, Monash University, Clayton, Victoria 3168

Associate Editors

J. N. Crossley—logic,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168.

J. Gani—probability and
statistics,
Division of Mathematics
& Statistics,
CSIRO,
P.O. Box 1965,
Canberra City, A.C.T. 2601.

T. E. Hall—semigroups,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168.

H. Lausch—algebra,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168.

M. F. Newman—groups,
Department of Mathematics,
RSPS,
Australian National University,
P.O. Box 4,
Canberra, A.C.T. 2600.

J. Pitman—number theory,
Department of Pure
Mathematics,
University of Adelaide,
Adelaide, South Australia,
5001.

A. P. Robertson—functional
analysis,
School of Mathematical
and Physical Sciences,
Murdoch University,
Murdoch, W.A. 6153.

N. Smythe—topology,
Department of Pure
Mathematics, SGS,
Australian National University,
P.O. Box 4,
Canberra, A.C.T. 2600.

R. H. Street—categories,
School of Mathematics
& Physics,
Macquarie University,
North Ryde, N.S.W. 2113.

E. Strzelecki—analysis,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168.

N. S. Trudinger—differential
equations,
Department of Mathematics,
SGS,
Australian National University,
P.O. Box 4,
Canberra, A.C.T. 2600.

J. Virsik—differential
geometry,
Department of Mathematics,
Monash University,
Clayton, Victoria 3168.

W. Wallis—combinatorics,
Department of Mathematics,
University of Newcastle,
Newcastle, N.S.W. 2308.

Assistant Editors

E. V. Dudley,
Department of Mathematics,
University of Melbourne,
Parkville, Victoria 3052.

P. J. Stacey,
Department of Mathematics,
La Trobe University,
Bundoora, Victoria 3083.

Correspondence concerning the printing of papers after their acceptance for publication should be addressed to one of the Assistant Editors.