

Journal of the  
**AUSTRALIAN  
MATHEMATICAL  
SOCIETY**

*Published for the Australian  
Mathematical Society*

*Editor: George A. Willis*

Volume 106 • Issue 1 • February 2019

**CAMBRIDGE  
UNIVERSITY PRESS**

# THE AUSTRALIAN MATHEMATICAL SOCIETY

President: Prof. Jacqui Ramagge

School of Mathematics and Statistics,  
The University of Sydney,  
NSW 2006, Australia.

Secretary: Prof. Peter J. Stacey

Department of Mathematics and Statistics,  
La Trobe University,  
Bundoora Victoria 3086, Australia.

Treasurer: Dr Algy Howe

Department of Mathematics,  
Australian National University,  
Canberra ACT 0200, Australia.

Editor of the Journal:  
Prof. George A. Willis

School of Mathematical and Physical Sciences,  
University of Newcastle,  
Callaghan, NSW 2308, Australia.

Assistant Managing Editor of the Journal:  
Judith D. Borwein

School of Mathematical and Physical Sciences,  
University of Newcastle,  
Callaghan, NSW 2308, Australia.

## ASSOCIATE EDITORS

Brian Alspach (The University of Newcastle)

Finnur Lárússon (University of Adelaide)

Lynn M. Batten (Deakin University)

Ben Martin (University of Auckland)

Daniel Chan (University of New South Wales)

James McCoy (The University of Newcastle)

Lisa Orloff Clark

Christopher Meaney (Macquarie University)

(Victoria University of Wellington)

Warren Moors (University of Auckland)

Michael Coons (The University of Newcastle)

Michael K. Murray (University of Adelaide)

James East (Western Sydney University)

Igor E. Shparlinski

Michael Giudici

(University of New South Wales)

(University of Western Australia)

Aidan Sims (University of Wollongong)

Andrew M. Hassell

Valery T. Stefanov

(Australian National University)

(University of Western Australia)

Anthony Henderson (University of Sydney)

Terence Tao

Vaithilingam Jeyakumar

(University of California at Los Angeles)

(University of New South Wales)

---

**Membership and correspondence:** Applications for membership, notices of changes of address or title or position, members' subscriptions and correspondence related to accounts should be sent to the Treasurer. All other correspondence should be sent to the Secretary.

**Subscriptions:** Two volumes of three parts are planned for 2019. Subscription prices for 2019 are £528 (\$971 in USA, Canada and Mexico) which includes print and electronic access. The electronic-only access price for 2019 is £429 (\$792 in USA, Canada and Mexico). Single parts cost £101 (\$186 in USA, Canada and Mexico). Prices include delivery by air where appropriate. EU subscribers who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Orders, which must be accompanied by payment, should be sent to a subscription agent, book-seller, or direct to the publishers: Cambridge University Press, University Printing House, Shaftesbury Road, Cambridge CB2 8BS or, in the USA, Canada and Mexico, Cambridge University Press, Journals Fulfilment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006. Japanese prices are available from Kinokuniya Company Ltd, PO Box 55, Chitose Tokyo 156, Japan. Periodicals postage is paid at New York, NY and additional mailing offices. POSTMASTER: send address changes in USA, Canada and Mexico to *Journal of the Australian Mathematical Society*, Cambridge University Press, Journals Fulfilment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006.

This journal is included in the Cambridge Core service. Further information, and online access for subscribers, is available at [cambridge.org/jaz](http://cambridge.org/jaz).