

Mathematics

Books and Journals from Cambridge University Press

Cambridge is a world leading publisher in pure and applied mathematics, with an extensive programme of high quality books and journals that reaches into every corner of the subject.

Our catalogue reflects not only the breadth of mathematics but also its depth, with titles for undergraduate students, for graduate students, for researchers and for users of mathematics.

We are proud to include world class researchers and influential educators amongst our authors, and also to publish in partnership with leading mathematical societies.

For further details visit:

cambridge.org/core-mathematics



Cambridge
Core

T'



CAMBRIDGE
UNIVERSITY PRESS

cotg u

Nagoya Mathematical Journal is included in the Cambridge Journals Online service which can be found at <http://journals.cambridge.org/>. For further information on other Press titles access cambridge.org/.

Subscriptions: *Nagoya Mathematical Journal* (ISSN 0027-7630) is published in four parts or volumes in 2017, in March, June, September and December. The Journal is published by Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK. /Cambridge University Press, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA on behalf of the Editorial Board of the *Nagoya Mathematical Journal*. Subscriptions include four volumes; all subscriptions are on a calendar-year basis. Annual subscription rates (excluding VAT) in 2017 are: print and electronic, \$451; print-only, \$430; electronic-only, \$357.

Orders, which must be accompanied by payment, should be sent to any bookseller or subscription agent, or direct to the publisher: Cambridge University Press, Shaftesbury Road, Cambridge CB2 8RU. Subscriptions in the USA, Canada and Mexico should be sent to Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Prices include delivery by air.

Copying: This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, Mass. 01923, USA. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per-copy fee of \$45.00. This consent does not extend to multiple copying for promotional or commercial purposes.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions.

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

Advertising: Details on advertising in *Nagoya Mathematical Journal* may be obtained directly from the Publisher.

Indexing/Abstracting: *Nagoya Mathematica Journal* is indexed and/or abstracted in *Current Contents. Physical, Chemical, and Earth Sciences*, *MathSciNet*, *Science Citation Index*, *Science Citation Index Expanded*, and *Zentralblatt MATH*.

© 2017 by The Editorial Board of the Nagoya Mathematical Journal

Printed in the UK by Bell & Bain Limited, Glasgow.

This journal issue has been printed on FSC™-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

CONTENTS

Sarkar, P. and Verma, J. K.

Local cohomology of multi-Rees algebras, joint reduction numbers and product of complete ideals 1

Jorgenson, J. and Smajlović, L.

On the distribution of zeros of the derivative of Selberg's zeta function associated to finite volume Riemann surfaces 21

Ariki, S., Kase, R. and Miyamoto, K.

On components of stable Auslander–Reiten quivers that contain Heller lattices: the case of truncated polynomial rings 72

Morifuji, T.

A vanishing theorem for the η -invariant and Hurwitz groups .. 114

Kumar, A. and Kuwata, M.

Elliptic K3 surfaces associated with the product of two elliptic curves: Mordell–Weil lattices and their fields of definition 124

Zemel, S.

Weight changing operators for automorphic forms on Grassmannians and differential properties of certain theta lifts 186

Cambridge Core

For further information about this journal
please go to the journal web site at
cambridge.org/nmj



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS