



Access
leading
journals in
your subject

Cambridge Core

Explore today at cambridge.org/core

Cambridge **Core**



Cambridge Core

The new
home of
academic
content

cambridge.org/core

Cambridge **Core**



CAMBRIDGE
UNIVERSITY PRESS

NOTES FOR AUTHORS

Submitting a paper

Full details on submitting a paper, including the style guide and L^AT_EX class file and macro package, can be found at <https://www.cambridge.org/core/journals/proceedings-of-the-royal-society-of-edinburgh-section-a-mathematics/information/instructions-contributors>

Proceedings of the Royal Society of Edinburgh: Section A considers for publication papers in all areas of mathematics. Please note that this journal does not consider simultaneous submissions from the same author.

- Authors will be asked to state the primary AMS 2010 Classification Number and between three and six keywords.
- Authors should nominate the most appropriate Editor for their paper.
- It is assumed that the author uploading the paper will be responsible for correspondence. A paper by more than one author should be approved in its entirety by the joint authors. An acknowledgement e-mail will be sent to all authors.
- Proceedings A has a page limit of 25pp but may consider papers up to five pages longer to allow for variation in final typeset length. Authors must prepare their papers as concisely as possible. Longer papers can be difficult to review in a reasonable time and can be judged more harshly.
- Each paper must be accompanied by an abstract, in general not exceeding 200 words, which will be printed.
- References should be listed at the end of the paper in alphabetical order, numbered sequentially. References within the text should be indicated by numbers in square brackets.

To submit your paper visit https://rse.msp.org/submit_new.php?jpath=rse_proc_a_math and follow the instructions for uploading.

Once a paper has been accepted for publication, authors will be asked to supply the appropriate file. This should be a single file, with any relevant macros included in the preamble, and named after the article reference number (e.g. 150421-authorname.tex). Figures should be submitted as eps or pdf files at the same time as the code for the paper. Detailed instructions will be given on acceptance.

Language

We recommend that non-English-speaking authors have their manuscripts checked by an English language native speaker before submission, to ensure that submissions are judged exclusively on academic merit. Third-party services specialising in language editing and/or translation can be found here: <https://www.cambridge.org/core/services/authors/language-services>. Use of any of these services is voluntary, and at the authors' own expense.

Proofs and offprints

Authors will be sent proofs of their paper by e-mail in pdf format for checking. A pdf of the final 'publisher's version' of the paper will be sent to the corresponding author shortly after print publication in lieu of hard copy offprints.

Copyright/Open Access

The RSE now operates a 'hybrid' Open Access model for its journals, for accepted papers submitted on or after 1 April 2013. On acceptance, authors will be given the option of having their paper published **either** under a regular publication agreement **or** under a fully Open Access agreement. Under the regular publication option, authors will be asked to sign the Journal's standard transfer of copyright form.

If authors choose the Open Access option, they will be asked to sign the alternative Open Access form and, upon payment of a one-off Article Processing Charge of UK£1780/US\$2835 (in 2017), the final published Version of Record shall be made freely available to all in perpetuity, and will be published under a creative commons licence, enabling its free re-use and re-distribution.

Please note that publication under a fully Open Access agreement is part of the Cambridge Open option. (For more details, please see: <https://www.cambridge.org/core/services/open-access-policies>)

Authors are also asked to ensure that any electronic versions of their paper clearly state the official place of publication.

Except as otherwise permitted under the Copyright, Designs and Patents Act, 1988, papers published in *Proceedings A* may only be reproduced, stored or transmitted with the prior permission of the copyright holder, or, in the case of reprographic reproduction, in accordance with the terms of a licence issued by the Copyright Licensing Agency. The Society permits the making of a single photocopy of an article from an issue (under Sections 29 & 38 of the Act) for an individual for the purposes of research or private study.

Websites

The Royal Society of Edinburgh: www.rse.org.uk

CUP: <https://www.cambridge.org/core/>

PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH

(Section A)

Volume 149

2019

Part 2

CONTENTS

Y.J. SUH Real hypersurfaces in the complex quadric with Killing normal Jacobi operator	279–296
F. LI AND F. RONG Remarks on quasi-Reinhardt domains	297–304
L. DAMASCCELLI AND F. PACELLA Morse index and symmetry for elliptic problems with nonlinear mixed boundary conditions	305–324
A. JEVNIKAR AND W. YANG A mean field equation involving positively supported probability measures: blow-up phenomena and variational aspects	325–352
K.M. HUI AND S. KIM Singular limits and properties of solutions of some degenerate elliptic and parabolic equations	353–385
M. THORPE AND F. THEIL Asymptotic analysis of the Ginzburg–Landau functional on point clouds	387–427
A. CHESKIDOV AND M. DAI Kolmogorov’s dissipation number and the number of degrees of freedom for the 3D Navier–Stokes Equations	429–446
M. DELGADO, A. SUÁREZ AND I. B. M. DUARTE Nonlocal problems arising from the birth-jump Processes	447–469
M. SOFONEA AND A. BENRAOUDA Convergence results for primal and dual history-dependent quasivariational inequalities	471–494
M. FĂRCĂŞEANU AND M. MIHĂILESCU On a family of torsional creep problems involving rapidly growing operators in divergence form	495–510
F. MARKS AND J. ŠT’OVÍČEK Universal localizations via silting	511–532
P. FELMER AND E. TOPP Continuous solutions and approximating scheme for fractional Dirichlet problems on Lipschitz domains	533–560

ISSN 0308-2105

Proc. Roy. Soc. Edinb., A 149

Printed in the UK by Henry Ling Limited, at the Dorset Press, Dorchester, DT1 1HD

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

