

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 153

2023

Part 5

CONTENTS

JOSÉ R. FERNÁNDEZ AND RAMÓN QUINTANILLA	
Uniqueness for a high order ill posed problem	1425–1438
YEPING LI AND JIE LIAO	
Zero-electron-mass limit of the compressible Navier–Stokes–Poisson equations with well/ill-prepared initial data	1439–1466
GORDON BLOWER	
Transportation on spheres via an entropy formula	1467–1478
YUZHOU FANG AND CHAO ZHANG	
Harnack inequality for the nonlocal equations with general growth	1479–1502
JUNCHENG WEI AND YUANZE WU	
On some nonlinear Schrödinger equations in \mathbb{R}^N	1503–1528
ĐẶNG VÕ PHÚC	
The affirmative answer to Singer’s conjecture on the algebraic transfer of rank four	1529–1542
NICOLA GAROFALO	
A note on monotonicity and Bochner formulas in Carnot groups	1543–1563
RONGRONG JIN AND GUANGCUN LU	
Coisotropic Ekeland–Hofer capacities	1564–1608
LUCAS BACKES AND DAVOR DRAGIČEVIĆ	
Multiscale linearization of nonautonomous systems	1609–1629
PRISCILA L. DA SILVA	
Local well-posedness and global analyticity for solutions of a generalized 0-equation	1630–1650
VEDANSH ARYA AND DHARMENDRA KUMAR	
Borderline gradient continuity for fractional heat type operators	1651–1682
ZHAO LIU	
Hardy–Littlewood–Sobolev inequality and existence of the extremal functions with extended kernel	1683–1705
XIULI CEN, CHANGJIAN LIU, YANGJIAN SUN AND JIHUA WANG	
Cyclicity of period annulus for a class of quadratic reversible systems with a nonrational first integral	1706–1728
QING HONG, GUORONG HU AND MICHAEL RUZHANSKY	
Fourier multipliers for Hardy spaces on graded Lie groups	1729–1750
MIGUEL ANGEL NAVARRO AND JUSTINO SÁNCHEZ	
Some results for semi-stable radial solutions of k -Hessian equations with weight on \mathbb{R}^n	1751–1776

ISSN 0308-2105

Proc. Roy. Soc. Edinb., A 153

Printed and bound by CPI Group (UK) Ltd, Croydon, CR0 4YY

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.

