

# NOTES FOR AUTHORS

## Submitting a paper

Full details on submitting a paper, including the style guide and L<sup>A</sup>T<sub>E</sub>X 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](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](http://www.rse.org.uk)  
CUP: <https://www.cambridge.org/core/>

CONTENTS

ANA CRISTINA BARROSO, JOSÉ MATIAS AND ELVIRA ZAPPALE Relaxation for an optimal design problem in $BD(\Omega)$	721–763
ZHUORAN DU Locations of interior transition layers to inhomogeneous transition problems in higher -dimensional domains	764–783
J. L. ANSORENA Fourier coefficients of functions in power-weighted $L_2$ -spaces and conditionality constants of bases in Banach spaces	784–810
DANKA LUČIĆ, ENRICO PASQUALETTO AND TAPIO RAJALA Non-Hilbertian tangents to Hilbertian spaces	811–832
ANTONIO ALGABA, CRISTÓBAL GARCÍA AND MANUEL REYES Analytic partial-integrability of a symmetric Hopf-zero degeneracy	833–852
WEN FENG, FARZANA HAFEEZ, JIAHONG WU AND DIPENDRA REGMI Stability and exponential decay for magnetohydrodynamic equations	853–880
YIFU WANG AND CHI XU Asymptotic behaviour in a doubly haptotactic cross-diffusion model for oncolytic virotherapy	881–906
CHUAN BI, MIAO-JUNG YVONNE OU AND SHANGYOU ZHANG Integral representation of hydraulic permeability	907–936
LI MA AND FANGYUAN DONG Fractional interpolation inequality and radially symmetric ground states	937–957
J.A. MOYA-PÉREZ AND J.J. NUÑO-BALLESTEROS The dual tree of a fold map germ from $\mathbb{R}^3$ to $\mathbb{R}^4$	958–977
XINGLONG WU Absence of singularities in solutions for the compressible Euler equations with source terms in $\mathbb{R}^d$	978–1001
ARAFAT ABBAR, CLÉMENT COINE AND COLIN PETITJEAN Compact and weakly compact Lipschitz operators	1002–1020
IN-KYUN KIM AND JOONYEONG WON Delta-invariants of complete intersection log del Pezzo surfaces	1021–1036
CONG WANG AND JIABAO SU The ground states of quasilinear Hénon equation with double weighted critical exponents	1037–1044
DÉBORA LOPES, MARIA APARECIDA SOARES RUAS AND IGOR CHAGAS SANTOS Singularities of 3-parameter line congruences in $\mathbb{R}^4$	1045–1070
PETAR PAVEŠIĆ Corrigendum to “Topological complexity of real Grassmannians”	1071–1072