

ISSN 1753-8416

Journal of
Topology

VOLUME 2 PART 1 2009

Journal of Topology

www.jtopol.oxfordjournals.org

Managing Editor ULRIKE TILLMANN, Mathematical Institute, 24–29 St Giles’ Street,
Oxford OX1 3LB
jtop@maths.ox.ac.uk

Editors

MICHAEL ATIYAH (University of Edinburgh)	MARC LACKENBY (University of Oxford)
MARTIN BRIDSON (University of Oxford)	JEAN LANNES (École Polytechnique)
RALPH COHEN (Stanford University)	WOLFGANG LÜCK (Universität Münster)
SIMON DONALDSON (Imperial College London)	JOHN ROE (Penn State University)
NIGEL HITCHIN (University of Oxford)	GRAEME SEGAL (University of Oxford)
FRANCES KIRWAN (University of Oxford)	ULRIKE TILLMANN (University of Oxford)

Aims and scope. The *Journal of Topology* publishes papers of high quality and significance in topology, geometry and adjacent areas of mathematics. Interesting, important and often unexpected links connect topology and geometry with many other parts of mathematics, and the editors welcome submissions on exciting new advances concerning such links, as well as those in the core subject areas of the journal.

The *Journal of Topology* (ISSN 1753-8416) is published quarterly by Oxford University Press, Oxford, UK on behalf of the London Mathematical Society. The journal is distributed by Mercury International, 365 Blair Road, Avenel, NJ 07001, USA. Periodicals postage paid at Rahway, NJ and at additional entry points. US Postmaster: send address changes to *Journal of Topology*, c/o Mercury International, 365 Blair Road, Avenel, NJ 07001, USA.

A subscription to the *Journal of Topology* comprises 4 issues (published as one annual volume; this issue January 2009). Prices include postage by surface mail, or for subscribers in the USA and Canada by airfreight, or in India, Japan, Australia and New Zealand by Air Speeded Post. Airmail rates are available on request.

Annual institutional subscription rate (volume 2, 4 issues, 2009): print edition and site-wide online access £300/US\$581/€375; print edition only £300/\$581/€375; site-wide online access only £285/\$552/€356. Please note: the £ rate applies to the UK and the Rest of the World except North America (\$) and Europe (€). There may be other subscription rates available; for a complete listing please visit www.jtopol.oxfordjournals.org/subscriptions. Full prepayment, in the correct currency, is required for all orders. Orders are regarded as firm and payments are not refundable. Subscriptions are accepted and entered on a complete volume basis. Claims cannot be considered more than FOUR months after publication or date of order, whichever is later. All subscriptions in Canada are subject to GST. Subscriptions in the EU may be subject to European VAT. If registered, please supply details to avoid unnecessary charges. For subscriptions that include online versions, a proportion of the subscription price may be subject to UK VAT.

Methods of payment. Payment should be made as follows: by cheque (to Oxford University Press, Cashiers Office, Great Clarendon Street, Oxford, OX2 6DP, UK); by UK bank transfer (to Barclays Bank Plc, Oxford Office, Oxford, bank sort code 20-65-18); overseas only via Swift code BARCGB22 (GB£ Sterling Account no. 70299332, IBAN GB89BARC20651870299332; US\$ Dollars Account no. 66014600, IBAN GB27BARC20651866014600; EU Euro Account no. 78923655, IBAN GB16BARC20651878923655); or by credit card (Mastercard, Visa, Switch or American Express).

© London Mathematical Society 2009. All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without either the prior written permission of the Publishers, or a licence permitting restricted copying issued in the UK by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE, or in the USA by the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. For those in the USA or Canada not registered with CCC, articles can be obtained by fax in 48 hours by calling: WISE for Medicine™ 1-800-667-WISE.