THE REVIEW OF SYMBOLIC LOGIC

Edited by

Jeremy Avigad, *Coordinating Editor* Rosalie lemhoff Hannes Leitgeb Carsten Lutz Paolo Mancosu Graham Priest Ian Proops Alasdair Urquhart Richard Zach

VOLUME 4 • NUMBER 2 • JUNE 2011 • ISSN 1755-0203

Copyright © 2011 by the Association for Symbolic Logic. All rights reserved. Reproduction by photostat, photo-print, microfilm, or like process by permission only.

NSL

PUBLISHED QUARTERLY BY THE ASSOCIATION FOR SYMBOLIC LOGIC, INC. WITH SUPPORT FROM INSTITUTIONAL MEMBERS.

THE REVIEW OF SYMBOLIC LOGIC

Coordinating Editor

Jeremy Avigad Departments of Philosophy and Mathematical Sciences Carnegie Mellon University

Editors

Rosalie Iemhoff Department of Philosophy Utrecht University

Hannes Leitgeb Faculty of Philosophy, Philosophy of Science, and Study of Religion Ludwig-Maximilians-University, Munich

Carsten Lutz Department of Computer Science University of Bremen

Paolo Mancosu Department of Philosophy University of California, Berkeley Graham Priest The Graduate Center City University of New York

Ian Proops Department of Philosophy University of Texas at Austin

Alasdair Urquhart Departments of Philosophy and Computer Science University of Toronto

Richard Zach Department of Philosophy University of Calgary

Advisory Board

Steve Awodey Department of Philosophy Carnegie Mellon University

Hartry Field Department of Philosophy New York University

Kit Fine Departments of Philosophy and Mathematics New York University

Michael Friedman Department of Philosophy Stanford University

Marcus Kracht Department of Linguistic and Literary Studies University of Bielefeld

John MacFarlane Department of Philosophy and Group in Logic and Methodology of Science University of California, Berkeley

Ruth Barcan Marcus Department of Philosophy Yale University

D.A. Martin Departments of Mathematics and Philosophy University of California, Los Angeles

Lawrence Moss Department of Mathematics Indiana University Ulrike Sattler School of Computer Science University of Manchester

Colin Stirling School of Informatics University of Edinburgh

James Tappenden Department of Philosophy University of Michigan

Johan van Benthem Institute for Logic, Language and Computation University of Amsterdam and Department of Philosophy Stanford University

Michiel van Lambalgen Institute for Logic, Language and Computation and Department of Philosophy University of Amsterdam

Dag Westerståhl Department of Philosophy Gothenburg University

Mark Wilson Department of Philosophy Pittsburgh University

Crispin Wright Department of Philosophy University of St. Andrews and New York University

TABLE OF CONTENTS

Identity and Indiscernibility JEFFREY KETLAND	171
An Axiomatic Theory of Well-Orderings OLIVER DEISER	186
The Universal Set and Diagonalization in Frege Structures REINHARD KAHLE	205
Rules for Subatomic Derivation BARTOSZ WIĘCKOWSKI	219
Against Against Nonbeing GRAHAM PRIEST	237
A Formalization of Kant's Transcendental Logic T. ACHOURIOTI AND M. VAN LAMBALGEN	254
The Expressive Power of Memory Logics CARLOS ARECES, DIEGO FIGUEIRA, SANTIAGO FIGUEIRA AND SERGIO MERA	290
T-Equivalences for Positive Sentences CEZARY CIEŚLIŃSKI	319
Multiple-Conclusion LP and Default Classicality JC BEALL	326

Subscription Information: *Review of Symbolic Logic* (ISSN 1755-0203) is published quarterly by Cambridge University Press for the Association for Symbolic Logic. Annual subscription rates for Volume 4 (2011): Institutional subscription rates, print and online: US \$680.00 in the USA, Canada, and Mexico; UK £415.00 + VAT elsewhere. Institutional subscription rates, online only: US \$572.00 in the USA, Canada, and Mexico; UK £368.00 + VAT elsewhere. Institutional subscription rates, print only: US \$645.00 in the USA, Canada, and Mexico; UK £385.00 + VAT elsewhere. Institutional subscription rates, print only: US \$645.00 in the USA, Canada, and Mexico; UK £385.00 + VAT elsewhere. Individual subscription rates, online only: US \$143.00 in the USA, Canada, and Mexico; UK £92.00 + VAT elsewhere. Individual subscription rates, print only: US \$162.00 in the USA, Canada, and Mexico; UK £97.00 + VAT elsewhere. Institutional subscription correspondence should be sent to: Cambridge University Press, 100 Brook Hill Drive, West Nyack, NY 10994, USA, for customers in the USA, Canada, or Mexico. Customers elsewhere should contact: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK.

Association for Symbolic Logic. Individual Members of the Association for Symbolic Logic receive a print subscription to *The Review of Symbolic Logic* as a benefit of membership. Requests for information, applications for membership, orders for back volumes, business correspondence, and notices and announcements for publication in the *The Bulletin of Symbolic Logic* should be sent to the Secretary-Treasurer of the Association: Charles Steinhorn, ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, NY 12604, USA. The email address of the Association's business office is asl@vassar.edu. The ASL website is located at http://www.aslonline.org. Links from that site provide further information on the *Review* and on submitting papers for publication.

Coordinating Editor: Jeremy Avigad, Department of Philosophy, Carnegie Mellon University, Pittsburgh, PA 15213, USA. Email: avigad@cmu.edu.

Copyright: All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopy, or otherwise, without permission in writing from Cambridge University Press. Photocopying information for users in the U.S.A.: Copying for internal or personal use beyond that permitted by Sec. 107 or 108 of the U.S. Copyright Law is authorized for users duly registered with the Copyright Clearance Center (CCC) Transaction Reporting Service, provided that the appropriate remittance per article is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923, USA. Specific written permission must be obtained for all other copying. General enquiries from the USA, Mexico, and Canada should be addressed to the New York office of Cambridge University Press http://www.cambridge.org/us/information/rights/contacts/newyork.htm; general enquiries from elsewhere should be addressed to the Cambridge office http://www.cambridge.org/ uk/information/rights/contacts/cambridge.htm; permission enquiries from Australia and New Zealand should be addressed to the Melbourne office http://www.cambridge.org/aus/ information/contacts melbourne.htm; enquiries regarding Spanish-language translation rights (only) should be addressed to the Madrid office http://www.cambridge.org/uk/ information/rights/contacts/madrid.htm

Copyright © Association for Symbolic Logic, 2011