THE REVIEW OF SYMBOLIC LOGIC

Edited by

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

VOLUME 4 • NUMBER 1 • MARCH 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.

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

https://doi.org/10.1017/S1755020311000050 Published online by Cambridge University Press

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 Michigan

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

https://doi.org/10.1017/S1755020311000050 Published online by Cambridge University Press

TABLE OF CONTENTS

Canonicity Results of Substructural and Lattice-Based Logics
TOMOYUKI SUZUKI 1

A Sequent Calculus Isomorphic to Gentzen's Natural Deduction
JAN VON PLATO 43

On the Infinite in Mereology with Plural Quantification
MASSIMILIANO CARRARA AND ENRICO MARTINO 54

Expressible Semantics for Expressible Counterfactuals
EMMANUEL CHEMLA 63

Positive Fragments of Relevance Logic and Algebras of Binary Relations
ROBIN HIRSCH AND SZABOLCS MIKULÁS 81

The Inadequacy of a Proposed Paraconsistent Set Theory
FRODE BJØRDAL 106

Reply to Bjørdal
ZACH WEBER 109

Hume's Principle, Beginnings
ALBERT VISSER 114

Degree Supervaluational Logic
J. ROBERT G. WILLIAMS 130

Polynomial Ring Calculus for Modal Logics: A New Semantics and Proof Method for Modalities
JUAN C. AGUDELO AND WALTER CARNIELLI 150

https://doi.org/10.1017/S1755020311000050 Published online by Cambridge University Press

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. 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

https://doi.org/10.1017/S1755020311000050 Published online by Cambridge University Press