

THE REVIEW OF SYMBOLIC LOGIC

Edited by

Andrew Arana, *Coordinating Editor*

Walter Dean

Fernando Ferreira

Wesley Holliday

Peter Koellner

David Ripley

Robert van Rooij

Jamie Tappenden

Sean Walsh

Charlotte Werndl

VOLUME 10 • NUMBER 3 • SEPTEMBER 2017 • ISSN 1755-0203

Copyright © 2017 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.

THE REVIEW OF SYMBOLIC LOGIC

Coordinating Editor

Andrew Arana

Department of Philosophy, University of Paris 1 Panthéon-Sorbonne

Editors

Walter Dean

*Department of Philosophy
University of Warwick*

Fernando Ferreira

*Department of Mathematics
University of Lisbon*

Wesley Holliday

*Department of Philosophy
University of California, Berkeley*

Peter Koellner

*Department of Philosophy
Harvard University*

David Ripley

*Department of Philosophy
University of Connecticut*

Robert van Rooij

*Department of Philosophy and
Institute for Logic
University of Amsterdam*

Jamie Tappenden

*Department of Philosophy
University of Michigan*

Sean Walsh

*Department of Logic and
Philosophy of Science
University of California, Irvine*

Charlotte Werndl

*Department of Philosophy
University of Salzburg*

Advisory Board

Maria Aloni

*Department of Philosophy and Institute
for Logic, Language and Computation
University of Amsterdam*

Roy Cook

*Department of Philosophy and Minnesota
Center for Philosophy of Science
University of Minnesota*

J. Michael Dunn

*Departments of Computer Science
and Philosophy
Indiana University*

Richard G. Heck

*Department of Philosophy
Brown University*

Geoffrey Hellman

*Department of Philosophy
University of Minnesota*

Juliette Kennedy

*Department of Mathematics
and Statistics
University of Helsinki*

Elaine Landry

*Department of Philosophy
University of California, Davis*

Bernard Linsky

*Department of Philosophy
University of Alberta*

Penelope Maddy

*Department of Logic and Philosophy
of Science
University of California, Irvine*

Edwin Mares

*School of History, Philosophy, Political
Science & International Relations
Victoria University of Wellington*

Rohit Parikh

*Department of Computer
and Information Science Brooklyn College,
City University of New York*

Greg Restall

*Department of Philosophy
University of Melbourne*

Stewart Shapiro

*Department of Philosophy
Ohio State University*

Gila Sher

*Department of Philosophy
University of California, San Diego*

Achille C. Varzi

*Department of Philosophy
Columbia University*

Rineke Verbrugge

*Institute of Artificial Intelligence
University of Groningen*

TABLE OF CONTENTS

Strongly Millian Second-Order Modal Logics BRUNO JACINTO	397
Notes on Bounded Induction for the Compositional Truth Predicate BARTOSZ WCISŁO AND MATEUSZ ŁEŁYK	455
The Logic of Joint Ability in Two-Player Tacit Games PETER HAWKE	481
Counterfactuals and Propositional Contingentism PETER FRITZ AND JEREMY GOODMAN	509
Three Different Formalisations of Einstein's Relativity Principle JUDIT X. MADARÁSZ, GERGELY SZÉKELY, AND MIKE STANNETT	530
A Three-Valued Quantified Argument Calculus: Domain-Free Model-Theory, Completeness, and Embedding of Fol RAN LANZET	549
Ibn Sīnā on Reductio Ad Absurdum WILFRID HODGES	583

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 10 (2017): Institutional subscription rates, print and online: US \$1054.00 in the USA, Canada, and Mexico; UK £662.00 + VAT elsewhere. Institutional subscription rates, online only: US \$904.00 in the USA, Canada, and Mexico; UK £569.00 + VAT elsewhere. Institutional subscription rates, print only: US \$1025.00 in the USA, Canada, and Mexico; UK £639.00 + VAT elsewhere. Individual subscription rates, online only: US \$217.00 in the USA, Canada, and Mexico; UK £135.00 + VAT elsewhere. Individual subscription rates, print only: US \$244.00 in the USA, Canada, and Mexico; UK £135.00 + VAT elsewhere. Institutional subscription correspondence should be sent to: Cambridge University Press, One Liberty Plaza, New York, NY 10006, 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: Andrew Arana, University Paris 1 Panthéon-Sorbonne, UFR 10 Philosophy, Institut d'histoire et de philosophie des sciences et des techniques (IHPST), 13 rue de Four, 75006 Paris, France. Email: andrew.arana@univ-paris1.fr.

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, 2017