

THE  
JOURNAL  
OF  
SYMBOLIC LOGIC

EDITED BY

ROD DOWNEY, Coordinating Editor  
FRANÇOISE DELON      JOHN ETCHEMENDY  
ROBERT GOLDBLATT      MARTIN GROHE      GREG HJORTH  
MICHAEL RATHJEN      SIMON THOMAS

VOLUME 67 · NUMBER 2 · JUNE 2002  
ISSN 0022-4812

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

---

*Copyright ©2002 by the Association for Symbolic Logic. All rights reserved.  
Reproduction by photostat, photo-print, microfilm, or like process by permission only.*

## TABLE OF CONTENTS

Congruence relations on lattices of recursively enumerable sets, by TODD HAMMOND .....	497
Monoid based semantics for linear formulas (corrected republication), by W. P. R. MITCHELL and H. SIMMONS .....	505
Quelques propriétés des théories de Jonsson, by YERULAN MUSTAFIN .....	528
Splitting properties of $n$ -c.e. enumeration degrees; by I. SH. KALIMULLIN .....	537
On the Ramseyan properties of some special subsets of $2^\omega$ and their algebraic sums, by ANDRZEJ NOWIK and TOMASZ WEISS .....	547
Groundwork for weak analysis, by ANTÓNIO M. FERNANDES and FERNANDO FERREIRA .....	557
Coding with ladders a well ordering of the reals, by URI ABRAHAM and SAHARON SHELAH .....	579
An isomorphism between monoids of external embeddings: About definability in arithmetic, by MIHAI PRUNESCU .....	598
Interpolation for first order $S_5$ , by MELVIN FITTING .....	621
Multiplication complexe et équivalence élémentaire dans le langage des corps (Complex multiplication and elementary equivalence in the language of fields), by XAVIER VIDAUX .....	635
On orbits of prompt and low computably enumerable sets, by KEVIN WALD ..	649
Definable incompleteness and Friedberg splittings, by RUSSELL MILLER .....	679
Degree spectra of relations on computable structures in the presence of $\Delta_2^0$ isomorphisms, by DENIS R. HIRSCHFELDT .....	697
Deconstructing inner model theory, by RALF-DIETER SCHINDLER, JOHN STEEL, and MARTIN ZEMAN .....	721
Compact complex manifolds with the DOP and other properties, by ANAND PILLAY and THOMAS SCANLON .....	737
Local supersimplicity and related concepts, by ENRIQUE CASANOVAS and FRANK O. WAGNER .....	744
On Diophantine definability and decidability in some rings of algebraic functions of characteristic 0, by ALEXANDRA SHLAPENTOKH .....	759
Generalized weak presentations, by ALEXANDRA SHLAPENTOKH .....	787
Indestructibility and the level-by-level agreement between strong compactness and supercompactness, by ARTHUR W. APTER and JOEL DAVID HAMKINS .....	820
Modules with few types over some finite-dimensional algebras, by MIKE PREST and VERÁ PUNINSKAYA .....	841

(Continued on inside back cover)

---

THE JOURNAL OF SYMBOLIC LOGIC (ISSN 0022-4812) is published quarterly, in the months of March, June, September, and December, by the Association for Symbolic Logic, Inc., 124 Raymond Avenue, Poughkeepsie, NY 12604-0001, USA. Periodicals postage is paid at Poughkeepsie NY and at additional mailing offices. The JOURNAL is distributed with THE BULLETIN OF SYMBOLIC LOGIC; the 2002 annual subscription price for the two journals is \$425. **Postmaster:** Send address changes to The Journal of Symbolic Logic, Journals Division UIP, 1325 South Oak Street, Champaign, IL 61820-6903, USA. Business correspondence should be sent to the Secretary-Treasurer of the Association, Charles Steinhorn (address on inside back cover).

*Continued on inside back cover*

10 9 8 7 6 5 4 3 2 1    07 06 05 04 03 02