ASL NEWSLETTER ATTACHMENT   September 2022

NEW RESEARCH ARTICLES IN LOGIC

- **Links to our Journal Articles.** This attachment to the ASL Newsletter lists articles that have appeared online in our three journals since April 15, 2022 and will be published in upcoming issues. The links given will take you to the webpage of each article listed, within the website of Cambridge University Press. Current ASL members should receive free access to these articles, as part of the journal subscriptions that are included with membership. Look for "Access options" on the article's webpage, and log in with your personal Cambridge Core account, which is the same account you use to create or renew your ASL membership. (ASL members do *not* use an institutional login.) Some assistance is available at `https://www.cambridge.org/core/help/faqs`.

  Articles that were already in press before April 2022 are also available at the journal websites, or see `https://aslonline.org/other-information/617-2/` for earlier editions of this attachment.

Journal of Symbolic Logic

- Characterizations of ordinal analysis by James Walsh.
- The Turing Degrees and Keisler's Order by M. Malliaris and S. Shelah.
- Strong Compactness, Square, **GCH**, and Woodin Cardinals by Arthur W. Apter.
- Distality rank by Roland Walker.
- Maximal towers and ultrafilter bases in computability theory by Steffen Lempp, Joseph S. Miller, André Nies, and Mariya I. Soskova.
- Ideal operators and higher indescribability by Brent Cody and Peter Holy.
- Almost theorems of hyperarithmetic analysis by Richard A. Shore.
- The permutations with n non-fixed points and the sequences with length n of a set by J. Nuntasri and P. Vejjajiva.
- Extensional realizability and choice for dependent types in intuitionistic set theory by Emanuele Frittaion.
- **PA** relative to an enumeration oracle by Jun Le Goh, Iskander SH. Kalimulin, Joseph S. Miller, and Mariya I. Soskova.
- Embeddings into outer models by Monroe Eskew and Sy-David Friedman.
- The first-order logic of **CZF** is intuitionistic first-order logic by Robert Passman.
- Knaster and friends III: subadditive colorings by Chris Lambie-Hanson and Assaf Rinot.
- Maker-breaker games on K_{ω_1} and K_{ω,ω_1} by Nathan Bowler, Florian Gut, Attila Joó and Max Pitz.
- Algebraic expansions of logic by M. Campercholi, D.N. Castaño, J.P. Díaz Varela, and J. Gispert.
- Continuous logic and Borel equivalence relations by Andreas Hallbäck, Maciej Malicki, and Todor Tsankov.

- Additive covers and the canonical base property by Michael Loesch.
- How strong is Ramsey's theorem if infinity can be weak? by Leszek Aleksander Kołodziejczyk, Katarzyna W. Kowalik, and Keita Yokoyama.
- Computable reducibility of equivalence relations and an effective jump operator by John D. Clemens, Samuel Coskey, and Gianni Krakoff.
- The simplest low linear order with no computable copies by Andrey Frolov and Maxim Zubkov.
- The automorphism group of the Fraïssé limit of finite Heyting algebras by Kentarô Yamamoto.
- The weak Vŏpenka principle for definable classes of structures by Joan Bagaria and Trevor M. Wilson.
- Determinacy of Schmidt's game and other intersection games by Logan Crone, Lior Fishman, and Stephen Jackson.
- Model theory and proof theory of the global reflection principle by Mateusz Zbigniew Łełyk.
- Cellular categories and stable independence by Michael Lieberman, Jiří Rosický, and Sebastien Vasey.
- An escape from Vardanyan's theorem by Ana De Almeida Borges and Joost J. Joosten.
- Asperó-Mota iteration and the size of the continuum by Teruyuki Yorioka.
- Tree forcing and definable maximal independent sets in hypergraphs by Jonathan Schilhan.
- Definability of Henselian valuations by conditions on the value group by Lothar Sebastian Krapp, Salma Kuhlmann, and Moritz Link.
- Structural highness notions by Wesley Calvert, Johanna N.Y. Franklin, and Dan Turetsky.
- Higher independence by Vera Fischer and Diana Carolina Montoya.
- Undecidability and non-axiomatizability of modal many-valued logics by Amanda Vidal.

The Review of Symbolic Logic

- On Shavrukov's non-isomorphism theorem for diagonalizable algebras by Evgeny A. Kolmakov.
- Craig Interpolation Theorem fails in bi-intuitionistic predicate logic by Grigory K. Olkhovikov and Guillermo Badia.
- Collection frames for distributive substructural logics by Greg Restall and Shawn Standefer.
- Counting to infinity: graded modal logic with an infinity diamond by Ignacio Bellas Acosta and Yde Venema.
- Probabilistic entailment on first order languages and reasoning with inconsistencies by Soroush Rafiee Rad.
- Is causal reasoning harder than probabilistic reasoning? by Milan Mossé, Duligur Ibeling, and Thomas Icard.
- What is a restrictive theory? by Toby Meadows.
- On Zardini's rules for multiplicative quantification as the source of contra(di)ctions by Uwe Petersen.
- Strong homomorphisms, category theory, and semantic paradox by Jonathan Wolfgram and Roy T. Cook.
- Proof systems for exact entailment by Johannes Korbmacher.
- The logic of hyperlogic. Part A: Foundations by Alexander K. Kocurek.

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The Bulletin of Symbolic Logic

- Order types of models of fragments of Peano arithmetic by Lorenzo Galeotti and Benedikt Löwe.
- Affine logic for constructive mathematics by Michael Shulman.
- A note on fragments of uniform reflection in second order arithmetic by Emanuele Frittaion.
- The axiom of choice is false intuitionistically (in most contexts) by Charles McCarty, Stewart Shapiro, and Ansten Klev.
- Universal coding and prediction on ergodic random points by Łukasz Dębowski and Tomasz Steifer.