ASL NEWSLETTER ATTACHMENT   September 2023

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 2023 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 2023 are also available at the journal websites, or see `https://aslonline.org/other-information/617-2/` for earlier editions of this attachment.

The Journal of Symbolic Logic

- Fractal dimensions of k-automatic sets by Alexi Block Gorman and Chris Schulz.
- Cofinal types below $\aleph_\omega$ by Roy Shalev.
- Abelian groups definable in p-adically closed fields by Will Johnson and Ningyuan Yao.
- Dedekiind-finite cardinals having countable partitions by Supakun Panasawatwong and John Kenneth Truss.
- Elementary equivalence in positive logic via prime products by Tommaso Moraschini, Johann J. Wannenburg, and Kentaro Yamamoto.
- Computable vs descriptive combinatorics of local problems on trees by Felix Weilacher.
- An egocentric logic of knowing how to tell them apart by Pavel Naumov and Jia Tao.
- Big in reverse mathematics: the uncountability of the reals by Sam Sanders.
- B-systems and C-systems are equivalent by Benedikt Ahrens, Jacopo Emmenegger, Paige Randall North, and Egbert Rijke.
- Complete bipartite partition relations in Cohen extensions by Dávid Uhrik.
- Forcing axioms and the definability of the nonstationary ideal on the first uncountable by Stefan Hoffelner, Paul Larson, Ralf Schindler, and Liuzhen Wu.
- The strength of an axiom of finite choice for branches in trees by Jun Le Goh.
- On groups with definable F-generics definable in P-adically closed fields by Anand Pillay and Ningyuan Yao.
- Transitivity, lowness, and ranks in NSOP_1 theories by Artem Chernikov, Byunghan Kim, and Nicholas Ramsey.
- On equivalence relations induced by locally compact Abelian Polish groups by Longyun Ding and Yang Zheng.

- Cofinality quantifiers in abstract elementary classes and beyond by Will Boney.
- A classification of the Wadge hierarchies on zero-dimensional Polish spaces by Raphaël Carroy, Luca Motto Ros, and Salvatore Scamperti.
- Investigating the computable Friedman-Stanley jump by Uri Andrews and Luca San Mauro.
- Some consequences of TD and sTD by Yinhe Peng, Liuzhen Wu, and Liang Yu.
- Semi-equational theories by Artem Chernikov and Alex Mennen.
- Stability results assuming tameness, monster model, and continuity of nonsplitting by Samson Leung.
- Orthogonal decomposition of definable groups by Alessandro Berarducci, Pantelis E. Eleftheriou, and Marcello Mamino.
- Self-divisible ultrafilters and congruences in $\beta\mathbb{Z}$ by Mauro Di Nasso, Lorenzo Luperi Baglini, Rosario Mennuni, Moreno Pierobon, and Mariaclara Ragosta.
- Classical determinate truth I by Volker Halbach and Kentaro Fujimoto.
- Definable $(\omega, 2)$-theorem for families with VC-codensity less than 2 by Pablo Andújar Guerrero.
- The structural complexity of models of arithmetic by Antonio Montalbán and Dino Rossegger.
- Non-tightness in class theory and second-order arithmetic by Alfredo Roque Freire and Kameryn J. Williams.
- Hybrid partial type theory by María Manzano, Antonia Huertas, Patrick Blackburn, Manuel Martins, and Víctor Aranda.
- The reverse mathematics of CAC for trees by Julien Cervelle, William Gaudelier, and Ludovic Patey.
- Katětov order on MAD families by Osvaldo Guzmán.
- On the C.E. degrees realizable in Π_1^0 classes by Barbara F. Csima, Rod Downey, and Keng Meng Ng.
- Computable presentations of C*-algebras by Alec Fox.
- Modular many-valued semantics for combined logics by Carlos Caleiro and Sérgio Marcelino.
- Structure of summable tall ideals under Katětov order by Jialiang He, Zuoheng Li, and Shuguo Zhang.
- Separating many localisation cardinals on the generalised Baire space by Tristan van der Vlugt.

The Review of Symbolic Logic

- Connexive implications in substructural logics by Davide Fazio and Gavin St. John.
- Subject-matter and intensional operators III: state-sensitive subject-matter and topic sufficiency by Thomas Macaulay Ferguson.
- Varieties of class-theoretic potentialism by Neil Barton and Kameryn J. Williams.
- 'A remarkable artifice': Laplace, Poisson, and mathematical purity by Bram Pel.
- Testing definitional equivalence of theories via automorphism groups by Hajnal Andréka, Judit Madarász, István Németi, and Gergely Székely.
- A natural deduction system for orthomodular logic by Andre Kornell.
- A simplified proof of the Epsilon theorems by Stefan Hetzl.
- Relevant consequence relations: an invitation by Guillermo Badia, Libor Běhounek, Petr Cintula, and Andrew Tedder.
- Is Cantor's theorem a dialetheia? Variations on a paraconsistent approach to Cantor's theorem by Uwe Petersen.
- Analyticity and syntheticity in type theory revisited by Bruno Bentzen.

- Finite axiomatizability of transitive modal logics of finite depth and width with respect to proper-successor-equivalence by Yan Zhang and Ming Xu.

- Unprincipled by Gordon Belot.

- First-order friendliness by Guillermo Badia.

- Non-contractive logics, paradoxes, and multiplicative quantifiers by Carlo Nicolai, Mario Piazza, and Matteo Tesi.

- On three-valued presentations of classical logic by Bruno Da Ré, Damian Szmuc, Emmanuel Chemla, and Paul Égré.

- What model companionship can say about the continuum problem by Giorgio Venturi and Matteo Viale.

The Bulletin of Symbolic Logic

- Asymmetric cut and choose games by Christopher Henney-Turner, Peter Holy, Philipp Schlicht, and Philip Welch.

- Extended frames and separations of logical principles by Makoto Fujiwara, Hajime Ishihara, Takako Nemoto, Nobu-Yuki Suzuki, and Keita Yokoyama.

- Interleaving logic and counting by Johan van Benthem and Thomas Icard.

- Menas's conjecture revisited by Pierre Matet.

- Computably compact metric spaces by Rodney G. Downey and Alexander G. Melnikov.

- Under lock and key: a proof system for a multimodal logic by G.A. Kavvos and Daniel Gratzer.