

PUBLIKÁCIÓS- ÉS HIVATKOZÁSLISTA
DR. PONGRÁCZ ANDRÁS

Publikációk

Beküldött cikkek (4 db)

- (1) PONGRÁCZ, A. *On the gambler's ruin problem and higher moments of some absorbing Markov chains*, (2020) 21 pp, beküldve.
- (2) PONGRÁCZ, A. *Existential reducts of the binary branching semilinear order and the Thomas conjecture*, (2020) 15 pp, beküldve.
- (3) PONGRÁCZ, A. *Extremal solutions of an inequality concerning supports of permutation groups and punctured Hadamard codes*, (2019) 20 pp, beküldve.
- (4) KÁTAI-URBÁN, K., SZABÓ, CS., PONGRÁCZ, A. *Voting protocols on the star graph*, (2018) 13 pp, beküldve.

Elfogadott és publikált cikkek (22 db)

- (1) PONGRÁCZ, A., VINCZE, CS. *On the reconstruction of the center of a projection by distances and incidence relations*, Journal of Mathematical Imaging and Vision **63:4** (2021) 443-456.
- (2) PONGRÁCZ, A. *Binary linear codes with near-extremal maximum distance*, SIAM Journal on Discrete Mathematics (2020) 18 pp, elfogadva.
- (3) BODIRSKY, M., PINSKER, M., PONGRÁCZ, A. *Projective clone homomorphisms*, The Journal of Symbolic Logic (2018) 12 pp, elfogadva.
- (4) PONGRÁCZ, A. *Discordant voting protocols for cyclically linked agents*, The Electronic Journal of Combinatorics (2020) **27(1):P1.58** 14 pp. A cikk vázlatos formában megjelent itt: Lecture Notes in Engineering and Computer Science, Volume I, Proceedings of ICCSE'18 165-168.
- (5) KÁTAI-URBÁN, K., SZABÓ, CS., PONGRÁCZ, A. *The fine- and generative spectra of varieties of monounary algebras*, Algebra Universalis **80:22** (2019) 18 pp.
- (6) BODIRSKY, M., MARTIN, B., PINSKER, M., PONGRÁCZ, A. *Constraint satisfaction problems for reducts of homogeneous graphs*, SIAM Journal on Computing (2019) **48:4** 1224-1264. A cikk vázlatos formában megjelent itt: Proceedings of ICALP'16 **119** 1–12.
- (7) BODIRSKY, M., BRADLEY-WILLIAMS, D., PINSKER, M., PONGRÁCZ, A. *The universal homogeneous binary tree*, Journal of Logic and Computation **28:1** (2018) 133–163.

- (8) MARTIN, B., PONGRÁCZ, A., WRONA, M. *The complexity of counting quantifiers on equality languages*, Theoretical Computer Science **670** (2017) 56–67. A cikk vázlatos formában megjelent itt: Computability in Europe (CiE 2016).
- (9) PONGRÁCZ, A. *Reducts of the Henson graphs with a constant*, Annals of Pure and Applied Logic **168:7** (2017) 1472–1489.
- (10) BODIRSKY, M., PINSKER, M., PONGRÁCZ, A. *Reconstructing the topology of clones*, Transactions of the American Mathematical Society **369** (2017) 3707–3740.
- (11) BODIRSKY, M., PINSKER, M., PONGRÁCZ, A. *The 42 reducts of the random ordered graph*, Proceedings of the London Mathematical Society **111:3** (2015) 591–632.
- (12) MÜLLER, M., PONGRÁCZ, A. *Topological dynamics of unordered Ramsey structures*, Fundamenta Mathematicae **230:1** (2015) 77–98.
- (13) PACH, P. P., PINSKER, M., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *Reducts of the random partial order*, Advances in Mathematics **267** (2014) 94–120.
- (14) PONGRÁCZ, A. *Omega-kategorikus struktúrák és algebrai invariánsaik*, Matematikai Lapok **20:1** (2014) 5–37 (magyar nyelvű összefoglaló cikk).
- (15) PACH, P. P., PINSKER, M., PONGRÁCZ, A., SZABÓ, CS. *A new operation on partially ordered sets*, Journal of Combinatorial Theory, Series A **120:7** (2013) 1450–1462.
- (16) PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *The number of rooted trees of given depth*, The Electronic Journal of Combinatorics **20:2** (2013) 11 pp.
- (17) HORVÁTH, G., KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *On free algebras in varieties generated by iterated semidirect products of semilattices*, International Journal of Algebra and Computation **22:7** (2012) 11 pp.
- (18) HORVÁTH, G., MAYR, P., PONGRÁCZ, A. *Characterizing translations on groups by cosets of their subgroups*, Communications in Algebra **40:9** (2012) 3141–3168.
- (19) KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *On the word problem for syntactic monoids of piecewise testable languages*, Semigroup Forum **84:2** (2012) 323–332.
- (20) HORVÁTH, G., KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *The number of monounary algebras*, Algebra Universalis **66:1-2** (2011) 81–83.
- (21) JUHÁSZ, M. L., PONGRÁCZ, A. *Embedding semilattices of subspaces of vector spaces*, Studia Scientiarum Mathematicarum Hungarica **48:1** (2011) 122–129.
- (22) PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *The possible number of islands on the sea*, Journal of Mathematical Analysis and Applications **375:1** (2011) 8–13.

Független hivatkozások (77 db)

PONGRÁCZ, A. *Discordant voting protocols for cyclically linked agents*, The Electronic Journal of Combinatorics (2020) **27(1):P1.58** 14 pp. A cikk vázlatos formában megjelent itt: Lecture Notes in Engineering and Computer Science, Volume I, Proceedings of ICCSE'18 165-168.

- (1) COOPER, C., DYER, M., FRIEZE, A., RIVERA, M. *Discordant Voting Processes on Finite Graphs*, SIAM Journal on Discrete Mathematics **32:4** (2018) 2398–2420.

BODIRSKY, M., MARTIN, B., PINSKER, M., PONGRÁCZ, A. *Constraint satisfaction problems for reducts of homogeneous graphs*, SIAM Journal on Computing (2019) **48:4** 1224–1264. A cikk vázlatos formában megjelent itt: Proceedings of ICALP'16 **119** 1–12.

- (1) BARTO, L., DEMEO, W., MOTTET, A. *Constraint satisfaction problems over finite structures* Proceedings of LICS'21 (2021) 19 pp.
- (2) KLIN, B., LASOTA, S., OCHREMIK, J., TORUŃCZYK, S. *Homomorphism problems for first-order definable structures*, Proceedings of the FSTTCS **65** (2016) 14:1–15.
- (3) Wrona, M. *Relational width of first-order expansions of homogeneous graphs with bounded strict width*, Proceedings of STACS (2020), elfogadva.
- (4) Wrona, M. *On the relational width of first-order expansions of finitely bounded homogeneous binary cores with bounded strict width*, Proceedings of LICS (2020) 9:58-9:71, elfogadva.
- (5) KOMPATSCHER, M., VAN PHAM, T. *A complexity dichotomy for poset constraint satisfaction* Proceedings of the 34th Symposium on Theoretical Aspects of Computer Science (STACS'17), (ISBN 9783959770286) Paper 47, 2017.
- (6) JAKUBÍKOVÁ-STUDENOVSKÁ, D. *Homomorphism order of connected monounary algebras* Order, 2020.
- (7) Viola, C., Zivny, S. *The combined basic LP and affine IP relaxation for promise VCSPs on infinite domains*, Proceedings of MFCS'20 **170** (2020) 85:1–85:15.

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- (1) WITT, B. *Residual finiteness and related properties in monounary algebras and their direct products* Algebra Universalis **82:2** (2021) 22 pp.

BODIRSKY, M., BRADLEY-WILLIAMS, D., PINSKER, M., PONGRÁCZ, A. *The universal homogeneous binary tree*, Journal of Logic and Computation **28:1** (2018) 133–163.

- (1) AGARWAL, L., KOMPATSCHER, M. 2^{\aleph_0} *pairwise non-isomorphic maximal-closed subgroups of $Sym(\mathbb{N})$ via the classification of the reducts of the Henson digraphs*, The Journal of Symbolic Logic **83:2** (2018) 395–415.
- (2) AHLMAN, O. *Homogenizable structures and model completeness*, Archive for Mathematical Logic **55:7** (2016) 977–995.
- (3) CHICOT, K. M., TRUSS, J. K. *Countable 1-transitive trees*, Groups, Modules, and Model Theory - Surveys and Recent Developments (2017) 225–268.
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- (5) KAPLAN, I., RZEPECKI, T., SINIORA, D. *On the automorphism group of the universal homogeneous meet-tree* The Journal of Symbolic Logic (2021) 33 pp.

BODIRSKY, M., PINSKER, M., PONGRÁCZ, A. *Projective clone homomorphisms*, The Journal of Symbolic Logic (2018) 12 pp, elfogadva.

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- (1) BODIRSKY, M. *Ramsey Classes: Examples and Constructions*, London Mathematical Society Lecture Note Series 424, Cambridge University Press (2015) 1–48.
 (2) BODIRSKY, M. *Complexity of Infinite-Domain Constraint Satisfaction*, LNL Series of Cambridge University Press (2021) 415 pp.
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 (5) BODOR, B., KALINA, K. *Az \mathbb{F}_2^ω vektortér reduktsjai*, Matematikai Lapok **20:2** (2014) 20–28.
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- (1) BEHRISCH, M. *Galois theory for semiclones*, Algebra Universalis **76:3** (2016) 385–413.
 (2) BEHRISCH, M., TRUSS, J. K., VARGAS-GARCIA, E. *Reconstructing the topology on monoids and polymorphism clones of the rationals*, Studia Logica **105:1** (2017) 65–91.
 (3) FELLER, T., PECH, C., PECH, M. *The classification of homomorphism homogeneous tournaments*, European Journal of Combinatorics **89** (2020) 103–142.
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BODIRSKY, M., PINSKER, M., PONGRÁCZ, A. *The 42 reducts of the random ordered graph*, Proceedings of the London Mathematical Society **111:3** (2015) 591–632.

- (1) AGARWAL, L. *Reducts of the generic digraph*, Annals of Pure and Applied Logic **167:3** (2016) 370–391.
- (2) AGARWAL, L., KOMPATSCHER, M. 2^{\aleph_0} *pairwise non-isomorphic maximal-closed subgroups of $Sym(\mathbb{N})$ via the classification of the reducts of the Henson digraphs*, Journal of Symbolic Logic **83:2** (2018) 395–415.
- (3) BODOR, B., CAMERON, P. J., SZABÓ, Cs. *Infinitely many reducts of homogeneous structures*, Algebra Universalis **79:43** (2018) 10 pp.
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- (7) MELLERAY, J., NGUYEN VAN THÉ, L., TSANKOV, T. *Polish groups with metrizable universal minimal flows*, International Mathematics Research Notices **5** (2016) 1285–1307.
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- (1) AGARWAL, L. *Reducts of the generic digraph*, *Annals of Pure and Applied Logic* **167:3** (2016) 370–391.
- (2) AGARWAL, L., KOMPATSCHER, M. 2^{\aleph_0} *pairwise non-isomorphic maximal-closed subgroups of $Sym(\mathbb{N})$ via the classification of the reducts of the Henson digraphs*, *Journal of Symbolic Logic* **83:2** (2018) 395–415.
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- (4) BODIRSKY, M. *Complexity of Infinite-Domain Constraint Satisfaction*, LNL Series of Cambridge University Press (2021) 415 pp.
- (5) BODIRSKY, M., BODOR, B. *Permutation groups with small orbit growth*, *Journal of Group Theory* (2021) 48 pp.
- (6) BODIRSKY, M., JONSSON, P., VAN PHAM, T. *The reducts of the homogeneous binary branching C -relation*, *The Journal of Symbolic Logic* **81:4** (2016) 1255–1297.
- (7) BODIRSKY, M., MACPHERSON, D. *Reducts of structures and maximal-closed permutation groups*, *The Journal of Symbolic Logic* **81:3** (2016) 1087–1114.
- (8) BODOR, B., KALINA, K. *Az \mathbb{F}_2^ω vektortér reduktsjai*, *Matematikai Lapok* **20:2** (2014) 20–28.
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- (11) KOMPATSCHER, M., VAN PHAM, T. *A complexity dichotomy for poset constraint satisfaction* *Proceedings of the 34th Symposium on Theoretical Aspects of Computer Science (STACS'17)*, (ISBN 9783959770286) Paper 47, 2017.
- (12) MAŠULOVIĆ, D. *Ramsey degress: Big v. small*, *European Journal of Combinatorics* **95(3):103323** (2021) 38 pp.

PACH, P. P., PINSKER, M., PONGRÁCZ, A., SZABÓ, Cs. *A new operation on partially ordered sets*, *Journal of Combinatorial Theory, Series A* **120:7** (2013) 1450–1462.

- (1) BODOR, B., KALINA, K. *Az \mathbb{F}_p^ω vektortér reduktsjai páratlan prímek esetén*, *Matematikai Lapok* **20:2** (2014) 29–56.
- (2) HARSÁNYI, G., IMRE, S., JOBBÁGY, Á., KATONA, GY., KISS, B., KISS, I., MAGYAR, G., NAGY, L., POPPE, A., VAJK, I. *Annual research report on electrical engineering and computer science 2015*, *Periodica Polytechnica - Electrical Engineering* **60:1** (2016) 1–36.
- (3) KOMPATSCHER, M., VAN PHAM, T. *A complexity dichotomy for poset constraint satisfaction* *Proceedings of the 34th Symposium on Theoretical Aspects of Computer Science (STACS'17)*, (ISBN 9783959770286) Paper 47, 2017.

PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, Cs. *The number of rooted trees of given depth*, *The Electronic Journal of Combinatorics* **20:2** (2013) 11 pp.

- (1) HARSÁNYI, G., IMRE, S., JOBBÁGY, Á., KATONA, GY., KISS, B., KISS, I., MAGYAR, G., NAGY, L., POPPE, A., VAJK, I. *Annual research report on electrical engineering and computer science 2015*, Periodica Polytechnica - Electrical Engineering **60:1** (2016) 1–36.

HORVÁTH, G., KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *On free algebras in the varieties of iterated semidirect products of meet-semilattices*, International Journal of Algebra and Computation **22:7** (2012) 11 pp.

- (1) DOLINKA, I. *On free spectra of finite monoids from the pseudovariety DA*, Semigroup Forum **85:2** (2012) 244–254.

HORVÁTH, G., MAYR, P., PONGRÁCZ, A. *Characterizing translations on groups by cosets of their subgroups*, Communications in Algebra **40:9** (2012) 3141–3168.

- (1) AICHINGER, E., MUDRINSKI, N. *Sequences of commutator operations*, Order **30:3** (2013) 859–867.

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- (1) KARANDIKAR, P., KUFLEITNER, M., SCHNOEBELEN, PH. *On the index of Simon's congruence for piecewise testability*, Information Processing Letters **115:4** (2015) 515–519.
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HORVÁTH, G., KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *The number of monounary algebras*, Algebra Universalis **66:1-2** (2011) 81–83.

- (1) CZÉDLI, G., JAKUBÍKOVÁ-STUDENOVSKÁ, D. *Large rigid sets of algebras with respect to embeddability*, Mathematica Slovaca **66:2** (2016) 7 pp.
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- (3) HORVÁTH, K. E. *Islands: from coding theory to enumerative combinatorics and to lattice theory - overview and open problems*, Miskolc Mathematical Notes **14:3** (2013) 927–939.
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- (6) LENGVÁRSZKY, ZS. *Systems of islands with continuous height functions*, Journal of the Australian Mathematical Society **94:3** (2013) 385–396.

Néhány részletes hivatkozás

BODIRSKY, M., PINSKER, M., PONGRÁCZ, A. *Reconstructing the topology of clones*, Transactions of the American Mathematical Society **369** (2017) 3707–3740.

-Az [1]-es hivatkozás a következő cikkben:

BEHRISCH, M., TRUSS, J. K., VARGAS-GARCIA, E. *Reconstructing the topology on monoids and polymorphism clones of the rationals*, Studia Logica **105:1** (2017) 65–91.

“Thus, we have to invent another method to ensure closedness, which is done by generalizing Lemma 12 from [1]”

“A main technical lemma, adapted from [1], shows how certain pairs of finite partial automorphisms can be extended to pairs of automorphisms.”

“By Corollary 6.3 we conclude that Θ is continuous. To see that it must be open too, we use Proposition 32 from [1], which holds for clone isomorphisms and is applicable here since G acts transitively on A and $\Theta \upharpoonright_E$ is open.”

- Az [5]-ös hivatkozás a következő cikkben:

PECH, C., PECH, M. *Reconstructing the topology of the elementary self-embedding monoids of countable saturated structures*, Studia Logica (2017)

“*Proof of Theorem 2.4.* Let $\psi := \varphi \upharpoonright_{Aut(\mathbf{A})}$. By Theorem 2.3 we have that $\psi : Aut(\mathbf{A}) \rightarrow \mathbf{Aut}(\mathbf{B})$ is a homeomorphism. It is well-known (cf. [5, Proposition 11]) that ψ extends to a homeomorphism $\bar{\psi} : EEmb(\mathbf{A}) \rightarrow Aut(\mathbf{B}) \leq EEmb(\mathbf{B})$.”

“In order to prove Proposition 2.5, we will use a strategy that was established in [5], and adapted in [2].”

HORVÁTH, G., KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *On free algebras in the varieties of iterated semidirect products of meet-semilattices*, International Journal of Algebra and Computation **22:7** (2012) 11 pp.

- A [11]-es hivatkozás a következő cikkben:

DOLINKA, I. *On free spectra of finite monoids from the pseudovariety DA* , Semigroup Forum **85:2** (2012) 244–254.

“This approach roughly parallels (and in several points generalises) that of Horváth et al. [11] who utilised the results of Almeida [1, 2] and Stiffler [18] to obtain an analogous result for finite \mathcal{R} -trivial (and, dually, \mathcal{L} -trivial) monoids, which form subpseudovarieties R and L , respectively, of DA .”

“**Fact 11** (Horváth et al. [11]). $\log f_n(\mathcal{V}_t) \in O(n^t)$.”

Remark 12. In fact, Theorem 5.1 of [11] describes the asymptotic behavior of $\log f_n(\mathcal{V}_t)$ for the semigroup variety \mathcal{V}_t defined by identities (2.3) and (2.4), but it is quite easy to run through

[11] to see that the same asymptotic bound holds for the monoid variety defined by the same identities.”

KÁTAI-URBÁN, K., PACH, P. P., PLUHÁR, G., PONGRÁCZ, A., SZABÓ, CS. *On the word problem for syntactic monoids of piecewise testable languages*, Semigroup Forum **84:2** (2012) 323–332.

- A [10]-es hivatkozás a következő cikkben:

KARANDIKAR, P., KUFLEITNER, M., SCHNOEBELEN, PH. *On the index of Simon’s congruence for piecewise testability*, Information Processing Letters **15:4** (2015) 515–519.

“Since the question of estimating $C_k(n)$ was raised in [2] (and to the best of our knowledge) no progress has been made on the question, until Kátaï-Urbán et al. proved the following bounds:

Theorem 1.1 (Kátaï-Urbán et al. [10]). For all $k > 1$,

$$\begin{aligned} \frac{k^n}{3^{n^2}} \log k &\leq \log C_k(n) < 3^n k^n \log k && \text{if } n \text{ is even,} \\ \frac{k^n}{3^{n^2}} < \log C_k(n) < 3^n k^n && \text{if } n \text{ is odd.} \end{aligned}$$

The proof is based on two reductions, one showing $C_{k+l}(n+2) \geq C_k^{l+2}(n)$ for proving lower bounds, and one showing $C_k(n+2) \leq (k+1)^{2k} C_k^{2k-1}(n)$ for proving upper bounds.”