

PUBLICATIONS AND PREPRINTS

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Published and accepted for publication:

- [1] **T. Abrishami**, B. Alecu, M. Chudnovsky, S. Hajebi, and S. Spirkl. “Induced subgraphs and tree-decompositions VII. Basic obstructions in H -free graphs.” *Journal of Combinatorial Theory, Series B*, Volume 164 (2024), 443-472. [arxiv] [journal]
- [2] **T. Abrishami**, B. Alecu, M. Chudnovsky, S. Hajebi, S. Spirkl, and K. Vušković. “Induced subgraphs and tree decompositions V. One neighbor in a hole.” To appear in *Journal of Graph Theory*. [arxiv]
- [3] **T. Abrishami**, M. Chudnovsky, S. Hajebi, and S. Spirkl. “Induced subgraphs and tree decompositions IV. (Even hole, diamond, pyramid)-free graphs.” *Electronic Journal of Combinatorics*, 30(2), 2023. [arxiv] [journal]
- [4] **T. Abrishami**, M. Chudnovsky, S. Hajebi, and S. Spirkl. “Induced subgraphs and tree decompositions III. Three-path-configurations and logarithmic treewidth.” *Advances in Combinatorics*, 2022:6, 31pp. [arxiv] [journal]
- [5] **T. Abrishami**, M. Chudnovsky, C. Dibek, S. Hajebi, P. Rzażewski, S. Spirkl, and K. Vušković. “Induced subgraphs and tree decompositions II. Toward walls and their line graphs in graphs of bounded degree.” *Journal of Combinatorial Theory, Series B*, 124 (2024), 371-403. [arxiv] [journal]
- [6] **T. Abrishami**, M. Chudnovsky, C. Dibek, and P. Rzażewski. “Polynomial-time algorithm for Maximum Independent Set in bounded-degree graphs with no long induced claws.” *Proceedings of the 2022 Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2022*, 1448-1470. [arxiv] [conference]
- [7] **T. Abrishami**, M. Chudnovsky, and K. Vušković. “Induced subgraphs and tree decompositions I. Even-hole-free graphs of bounded degree.” *Journal of Combinatorial Theory, Series B*, 157 (2022), 144-175. [arxiv] [journal]
- [8] **T. Abrishami**, M. Chudnovsky, C. Dibek, S. Thomassé, N. Trotignon, and K. Vušković. “Graphs with polynomially many minimal separators.” *Journal of Combinatorial Theory, Series B*, 152 (2021), 248-280. [arxiv] [journal]
- [9] **T. Abrishami**, M. Chudnovsky, M. Pilipczuk, P. Rzażewski, and P. Seymour. “Induced subgraphs of bounded treewidth and the container method.” *Proceedings of the Thirty-second Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2021*, 1948-1964. [arxiv] [conference]
- [10] **T. Abrishami**, N. Guillen, P. Rule, Z. Schutzman, J. Solomon, T. Weighill, and S. Wu. “Geometry of graph partitions via optimal transport.” *SIAM Journal of Scientific Computing*, 42(5), A3340–A3366. [arxiv] [journal]

Submitted:

- [11] **T. Abrishami**, E. Berger, M. Chudnovsky, S. Zerbib. “Graphs with no even holes and no sector wheels are the union of two chordal graphs.” Submitted, October 2023. [arxiv]
- [12] **T. Abrishami**, M. Chudnovsky, M. Pilipczuk, and P. Rzażewski. “Max Weight Independent Set in sparse graphs with no long claws.” Submitted, September 2023. [arxiv]
- [13] **T. Abrishami**, B. Alecu, M. Chudnovsky, S. Hajebi, and S. Spirkl. “Induced subgraphs and tree-decompositions X. Towards logarithmic treewidth for even-hole-free graphs.” Submitted, July 2023. [arxiv]
- [14] **T. Abrishami**, B. Alecu, M. Chudnovsky, S. Hajebi, S. Spirkl, and K. Vušković. “Tree independence number for (even hole, diamond, pyramid)-free graphs.” Submitted, June 2023. [arxiv]
- [15] **T. Abrishami**, M. Chudnovsky, and Y. Tang. “Even pairs in Berge graphs with no balanced skew-partitions.” Submitted, May 2023. [arxiv]
- [16] **T. Abrishami**, B. Alecu, M. Chudnovsky, S. Hajebi, and S. Spirkl. “Induced subgraphs and tree-decompositions VIII. Excluding a forest in (theta, prism)-free graphs.” Submitted, January 2023. [arxiv]
- [17] **T. Abrishami**, M. Chudnovsky, S. Hajebi, and S. Spirkl. “Induced subgraphs and tree decompositions VI. Graphs with 2-cutsets.” Submitted, July 2022. [arxiv]
- [18] **T. Abrishami**, M. Chudnovsky, C. Dibek, and K. Vušković. “Submodular functions and perfect graphs.” Submitted, October 2021. [arxiv]